A Complete Bibliography of Publications in the *SIAM Journal on Applied Mathematics*: 2020–2029

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26 August 2024
Version 1.11

Title word cross-reference

References

Jiang:2011:ASS

[1] Yu Jiang, Hiroshi Fujiwara, and Gen Nakamura. Approximate steady state models for magnetic resonance elastography. *SIAM Journal on Applied Mathematics*, 71(6):1965–1989, ???? 2011. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `http://epubs.siam.org/siap/resource/1/smjmap/v71/i6/p1965_s1`. See erratum [91].

Griesmaier:2018:MIM

[2] Roland Griesmaier and Bastian Harrach. Monotonicity in inverse medium scattering on unbounded domains. *SIAM Journal on Applied Mathematics*, 78(5):2533–2557, ???? 2018. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See erratum [181].

Kirsch:2019:IPA

[3] Andreas Kirsch and Andreas Rieder. Inverse problems for abstract evolution equations II: Higher order differentiability for viscoelasticity. *SIAM Journal on Applied Mathematics*, 79 (6):2639–2662, ???? 2019. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See erratum [133].

Yariv:2020:LTF

[4] Ehud Yariv and Darren Crowdy. Longitudinal thermocapillary flow over a dense bubble mattress. *SIAM Journal on Applied Mathematics*, 80(1):1–19, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Garde:2020:ODD

[5] Henrik Garde and Nuutti Hyvönen. Optimal depth-dependent distinguishability bounds for electrical impedance tomography in arbitrary dimension. *SIAM Journal on Applied Mathematics*, 80 (1):20–43, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Camassa:2020:VDB

[6] Roberto Camassa, Gregorio Falqui, Giovanni Ortenzi, Marco Pedroni, and Giuseppe Pitton. On the "Vacuum" dam-break problem: Exact solutions and their long time asymptotics. *SIAM Journal on Applied Mathematics*, 80 (1):44–70, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Yorkston:2020:DSE

[7] Adam A. Yorkston, Mark G. Blyth, and Emilian I. Parau. The deformation and stability of an elastic cell in a uniform flow. *SIAM Journal on Applied Mathematics*, 80(1):71–94, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ghazaryan:2020:SAF

[8] Anna Ghazaryan, Stephane Lafortune, and Vahagn Manukian. Spectral analysis of fronts in a Marangoni-driven thin liquid film flow down a slope. *SIAM Journal on Applied Mathematics*, 80(1):95–118, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Negron-Marrero:2020:CRS

[9] Pablo V. Negrón-Marrero and Jeyabal Sivaloganathan. On the convergence of a regularization scheme for approximating cavitation solutions with prescribed cavity volume. *SIAM Journal on Applied Mathematics*, 80(1):119–141, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chow:2020:ESO

[10] Shui nee Chow, Wuchen Li, Jun Lu, and Haomin Zhou. Equilibrium selection via optimal transport. *SIAM Journal on Applied Mathematics*, 80 (1):142–159, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Burger:2020:RCD

[11] Martin Burger, Patricia Friele, and Jan-Frederik Pietschmann. On a reaction–cross-diffusion system modeling the growth of glioblastoma. *SIAM Journal on Applied Mathematics*, 80 (1):160–182, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Craciun:2020:ECC

[12] Gheorghe Craciun, Jiaxin Jin, and Polly Y. Yu. An efficient characterization of complex-balanced, detailed-balanced, and weakly reversible systems. *SIAM Journal on Applied Mathematics*, 80(1):183–205, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Huang:2020:SAQ

[13] Qian Huang, Shuiqing Li, and Wen-An Yong. Stability analysis of quadrature-based moment methods for kinetic equations. *SIAM Journal on Applied Mathematics*, 80(1):206–231, ???? 2020. CO-

DEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Carrillo:2020:PTB

[14] Jose A. Carrillo, Xinfu Chen, Qi Wang, Zhian Wang, and Lu Zhang. Phase transitions and bump solutions of the Keller–Segel model with volume exclusion. *SIAM Journal on Applied Mathematics*, 80(1):232–261, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hermanns:2020:HTR

[15] Miguel Hermanns and Santiago Ibáñez. Harmonic thermal response of thermally interacting geothermal boreholes. *SIAM Journal on Applied Mathematics*, 80(1):262–288, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lustri:2020:SHS

[16] Christopher J. Lustri, Christopher C. Green, and Scott W. McCue. Selection of a Hele–Shaw bubble via exponential asymptotics. *SIAM Journal on Applied Mathematics*, 80(1):289–311, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bressloff:2020:EPG

[17] Paul C. Bressloff, Sean D. Lawley, and Patrick Murphy. Effective permeability of a gap junction with age-structured switching. *SIAM Journal on Applied Mathematics*, 80(1):312–337, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Isakov:2020:LIS

[18] Victor Isakov, Shuai Lu, and Boxi Xu. Linearized inverse Schrödinger potential problem at a large wavenumber. *SIAM Journal on Applied Mathematics*, 80(1):338–358, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhou:2020:CDR

[19] Yongcheng Zhou. On curvature driven rotational diffusion of proteins on membrane surfaces. *SIAM Journal on Applied Mathematics*, 80(1):359–381, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hillen:2020:NAM

[20] Thomas Hillen and Andreas Buttenschön. Nonlocal adhesion models for microorganisms on bounded domains. *SIAM Journal on Applied Mathematics*, 80(1):382–401, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cui:2020:IPN

[21] Hanwen Cui and Weiqing Ren. Interface profile near the contact line in electro-wetting on dielectric. *SIAM Journal on Applied Mathematics*, 80 (1):402–421, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cao:2020:PDE

[22] Alexander Cao, Benjamin Lindner, and Peter J. Thomas. A partial differential equation for the mean-return-time phase of planar stochastic oscillators. *SIAM Journal on Applied Mathematics*, 80(1):422–447, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Muntean:2020:CTL

[23] Adrian Muntean and Christos Nikolopoulos. Colloidal transport in locally periodic evolving porous media — an upscaling exercise. *SIAM Journal on Applied Mathematics*, 80(1):448–475, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Estrada-Rodriguez:2020:IPL

[24] Gissell Estrada-Rodriguez and Heiko Gimperlein. Interacting particles with Lévy strategies: Limits of transport equations for swarm robotic systems. *SIAM Journal on Applied Mathematics*, 80(1):476–498, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhang:2020:SCE

[25] Tingting Zhang, Geuk Young Jang, Tong In Oh, Kyung Woon Jeung, Hun Wi, and Eung Je Woo. Source consistency electrical impedance tomography. *SIAM Journal on Applied Mathematics*, 80(1):499–520, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Fazly:2020:API

[26] Mostafa Fazly, Mark Lewis, and Hao Wang. Analysis of propagation for impulsive reaction–diffusion models. *SIAM Journal on Applied Mathematics*, 80 (1):521–542, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gandolfi:2020:BLE

[27] Alberto Gandolfi, Mimmo Iannelli, and Gabriela Marinoschi. The basal layer of the epidermis: a mathematical model for cell production under a surface density constraint. *SIAM Journal on Applied Mathematics*, 80(1):543–571, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Li:2020:EDP

[28] Xiang Li, Qiang Du, and Xiao-Ping Wang. Energy decaying phase-field model for fluid-particle interaction in two-phase flow. *SIAM Journal on Applied Mathematics*, 80(1):572–598, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Stuart:2020:IOT

[29] Andrew M. Stuart and Marie-Therese Wolfram. Inverse optimal transport. *SIAM Journal on Applied Mathematics*, 80(1):599–619, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chodrow:2020:LSG

[30] Philip S. Chodrow and Peter J. Mucha. Local symmetry and global structure in adaptive voter models. *SIAM Journal on Applied Mathematics*, 80 (1):620–638, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Piacentini:2020:MMP

[31] Giulia Piacentini, Paola Goatin, and Antonella Ferrara. A macroscopic model for platooning in highway traffic. *SIAM Journal on Applied Mathematics*, 80 (1):639–656, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dalwadi:2020:MFD

[32] Mohit P. Dalwadi, Sarah L. Waters, Helen M. Byrne, and Ian J. Hewitt. A mathematical framework for developing freezing protocols in the cryopreservation of cells. *SIAM Journal on Applied Mathematics*, 80(2):657–689, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ciarletta:2020:EFB

[33] Pasquale Ciarletta, Hui-Hui Dai, and Matteo Taffetani. Elastic fingering of a bonded soft disc in traction: Interplay of geometric and physical nonlinearities. *SIAM Journal on Applied Mathematics*, 80(2):690–705, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hanke:2020:USS

[34] Martin Hanke and Nikolas Porz. Unique solvability of a system of ordinary differential equations modeling a warm cloud parcel. *SIAM Journal on Applied Mathematics*, 80(2):706–724, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Sirignano:2020:MFA

[35] Justin Sirignano and Konstantinos Spiliopoulos. Mean field analysis of neural networks: a law of large numbers. *SIAM Journal on Applied Mathematics*, 80(2):725–752, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zabarankin:2020:MDE

[36] Michael Zabarankin and Bogdan Grechuk. Matrix difference equations in applied mathematics. *SIAM Journal on Applied Mathematics*, 80(2):753–771, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Martinez:2020:MAA

[37] Carlos Martinez, Andrés Ávila, Francis Mairet, Leslie Meier, and David Jeison. Modeling and analysis of an absorption column connected to a microalgae culture. *SIAM Journal on Applied Mathematics*, 80(2):772–791, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gaudiello:2020:TDE

[38] Antonio Gaudiello and Michel Lenczner. A two-dimensional electrostatic model of interdigitated comb drive in longitudinal mode. *SIAM Journal on Applied Mathematics*, 80(2):792–813, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Nguyen:2020:LTA

[39] Dang Hai Nguyen, George Yin, and Chao Zhu. Long-term analysis of a stochastic SIRS model with general incidence rates. *SIAM Journal on Applied Mathematics*, 80(2):814–838, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bastiaansen:2020:MHB

[40] Robbin Bastiaansen, Arjen Doelman, Frank van Langevelde, and Vivi Rottschäfer. Modeling honey bee colonies in winter using a Keller–Segel model with a sign-changing chemotactic coefficient. *SIAM Journal on Applied Mathematics*, 80(2):839–863, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Yuan:2020:EBS

[41] Lijun Yuan and Ya Yan Lu. Excitation of bound states in the continuum via second harmonic generations. *SIAM Journal on Applied Mathematics*, 80(2):864–880, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cogar:2020:ATC

[42] Samuel Cogar. Analysis of a trace class Stekloff eigenvalue problem arising in inverse scattering. *SIAM Journal on Applied Mathematics*, 80(2):881–905, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dickman:2020:TCE

[43] Lauren R. Dickman, Evan Milliken, and Yang Kuang. Tumor control, elimination, and escape through a compartmental model of dendritic cell therapy for melanoma. *SIAM Journal on Applied Mathematics*, 80(2):906–928, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Liu:2020:NMT

[44] Zuhan Liu, Canrong Tian, and Shigui Ruan. On a network model of two competitors with applications to the invasion and competition of *Aedes Albopictus* and *Aedes Aegypti* mosquitoes in the United States. *SIAM Journal on Applied Mathematics*, 80(2):929–950, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Helsing:2020:ECC

[45] Johan Helsing and Anders Karlsson. An extended charge–current formulation of the electromagnetic transmission problem. *SIAM Journal on Applied Mathematics*, 80(2):951–976, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Erichson:2020:SPC

[46] N. Benjamin Erichson, Peng Zheng, Krithika Manohar, Steven L. Brunton, J. Nathan Kutz, and Aleksandr Y. Aravkin. Sparse principal component analysis via variable projection. *SIAM Journal on Applied Mathematics*, 80(2):977–1002, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gonzalez-Farina:2020:MMP

[47] Raquel González-Fariña, Andreas Münch, James M. Oliver, and Robert A. Van Gorder. Modeling microsilica particle formation and growth due to the combustion reaction of silicon monoxide with oxygen. *SIAM Journal on Applied Mathematics*, 80(2):1003–1033, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

delaHoz:2020:EVF

[48] Francisco de la Hoz, Sandeep Kumar, and Luis Vega. On the evolution of the vortex filament equation for regular M-polygons with nonzero torsion. *SIAM Journal on Applied Mathematics*, 80(2):1034–1056, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Montobbio:2020:MMF

[49] Noemi Montobbio, Alessandro Sarti, and Giovanna Citti. A metric model for the functional architecture of the visual

cortex. *SIAM Journal on Applied Mathematics*, 80(2):1057–1081, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Pandurangi:2020:HAS

[50] Shrinidhi S. Pandurangi, Timothy J. Healey, and Nicolas Triantafyllidis. Hidden asymptotic symmetry in a long elastic structure. *SIAM Journal on Applied Mathematics*, 80(3):1083–1100, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Wei:2020:GBT

[51] Chaozhen Wei, Luchan Zhang, Jian Han, David J. Srolovitz, and Yang Xiang. Grain boundary triple junction dynamics: a continuum disconnection model. *SIAM Journal on Applied Mathematics*, 80(3):1101–1122, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bersani:2020:UAE

[52] A. M. Bersani, A. Borri, A. Milanesi, G. Tomassetti, and P. Vellucci. Uniform asymptotic expansions beyond the tQSSA for the Goldbeter–Koshland switch. *SIAM Journal on Applied Mathematics*, 80(3):1123–1152, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Aurell:2020:BNW

[53] Alexander Aurell and Boualem Djehiche. Behavior near walls in the mean-field approach to crowd dynamics. *SIAM Journal on Applied Mathematics*, 80(3):1153–1174, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Borgers:2020:MSD

[54] Christoph Börgers and Claude Greengard. On the mean square displacement in Lévy walks. *SIAM Journal on Applied Mathematics*, 80(3):1175–1196, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Leimkuhler:2020:HPA

[55] Benedict Leimkuhler, Matthias Sachs, and Gabriel Stoltz. Hypocoercivity properties of adaptive Langevin dynamics. *SIAM Journal on Applied Mathematics*, 80(3):1197–1222, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Heggerud:2020:TDS

[56] Christopher M. Heggerud, Hao Wang, and Mark A. Lewis. Transient dynamics of a stoichiometric cyanobacteria model via multiple-scale analysis. *SIAM Journal on Applied Mathematics*, 80(3):1223–1246, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chen:2020:APB

[57] Shanshan Chen and Junping Shi. Asymptotic profiles of basic reproduction number for epidemic spreading in heterogeneous environment. *SIAM Journal on Applied Mathematics*, 80(3):1247–1271, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See erratum [90].

Shang:2020:GCP

[58] Yilun Shang. Generalized K-core percolation in networks with community structure. *SIAM Journal on*

Applied Mathematics, 80(3):1272–1289, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lee:2020:HME

[59] Yunjeong Lee, Yoon gu Hwang, Hee-Dae Kwon, Jun Yong Choi, and Jee-hyun Lee. Hierarchical mixed-effects model for HIV dynamics. *SIAM Journal on Applied Mathematics*, 80(3): 1290–1306, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Xia:2020:PMA

[60] Mingtao Xia, Chris D. Greenman, and Tom Chou. PDE models of adder mechanisms in cellular proliferation. *SIAM Journal on Applied Mathematics*, 80 (3):1307–1335, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Jia:2020:KFZ

[61] Chen Jia. Kinetic foundation of the zero-inflated negative binomial model for single-cell RNA sequencing data. *SIAM Journal on Applied Mathematics*, 80(3):1336–1355, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Segura:2020:DPA

[62] Juan Segura, Frank M. Hilker, and Daniel Franco. Degenerate period adding bifurcation structure of one-dimensional bimodal piecewise linear maps. *SIAM Journal on Applied Mathematics*, 80(3):1356–1376, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Colombo:2020:MMV

[63] Rinaldo M. Colombo, Helge Holden, and Francesca Marcellini. On the microscopic modeling of vehicular traffic on general networks. *SIAM Journal on Applied Mathematics*, 80(3): 1377–1391, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cristofari:2020:TVB

[64] Andrea Cristofari, Francesco Rinaldi, and Francesco Tudisco. Total variation based community detection using a nonlinear optimization approach. *SIAM Journal on Applied Mathematics*, 80(3):1392–1419, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lim:2020:IGS

[65] Mikyoung Lim and Graeme W. Milton. Inclusions of general shapes having constant field inside the core and nonelliptical neutral coated inclusions with anisotropic conductivity. *SIAM Journal on Applied Mathematics*, 80 (3):1420–1440, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cartee:2020:CTM

[66] Elliot Cartee and Alexander Vladimirsky. Control-theoretic models of environmental crime. *SIAM Journal on Applied Mathematics*, 80(3):1441–1466, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chen:2020:MNS

[67] Junqing Chen, Ying Liang, and Jun Zou. Mathematical and numerical

study of a three-dimensional inverse eddy current problem. *SIAM Journal on Applied Mathematics*, 80(3): 1467–1492, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bai:2020:DSM

[68] Zhenguo Bai, Yijun Lou, and Xiao-Qiang Zhao. A delayed succession model with diffusion for the impact of diapause on population growth. *SIAM Journal on Applied Mathematics*, 80 (3):1493–1519, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Paquin-Lefebvre:2020:WNT

[69] Frédéric Paquin-Lefebvre, Wayne Nagata, and Michael J. Ward. Weakly nonlinear theory for oscillatory dynamics in a one-dimensional PDE–ODE model of membrane dynamics coupled by a bulk diffusion field. *SIAM Journal on Applied Mathematics*, 80 (3):1520–1545, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bourgeois:2020:WPS

[70] Laurent Bourgeois and Christophe Hazard. On well-posedness of scattering problems in a Kirchhoff–Love infinite plate. *SIAM Journal on Applied Mathematics*, 80(3):1546–1566, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Nguyen:2020:MDC

[71] Dang H. Nguyen and Edouard Strickler. A method to deal with the critical case in stochastic population dynamics. *SIAM Journal on Applied Mathematics*, 80(3):1567–1589, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Du:2020:VPF

[72] Qiang Du, Ruotai Li, and Lei Zhang. Variational phase field formulations of polarization and phase transition in ferroelectric thin films. *SIAM Journal on Applied Mathematics*, 80(3): 1590–1606, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kang:2020:MFN

[73] Di Kang, Patrick Choi, and Chiu-Yen Kao. Minimization of the first nonzero eigenvalue problem for two-phase conductors with Neumann boundary conditions. *SIAM Journal on Applied Mathematics*, 80(4):1607–1628, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Harley:2020:STW

[74] Kristen E. Harley, Peter van Heijster, Robert Marangell, Graeme J. Pettet, Timothy V. Roberts, and Martin Wechselberger. (In)stability of travelling waves in a model of haptotaxis. *SIAM Journal on Applied Mathematics*, 80 (4):1629–1653, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Jiang:2020:SIM

[75] Wei Jiang, Quan Zhao, and Weizhu Bao. Sharp-interface model for simulating solid-state dewetting in three dimensions. *SIAM Journal on Applied Mathematics*, 80(4):1654–1677, ???? 2020.

CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Han:2020:RSN

[76] Yucen Han, Apala Majumdar, and Lei Zhang. A reduced study for nematic equilibria on two-dimensional polygons. *SIAM Journal on Applied Mathematics*, 80(4):1678–1703, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Junca:2020:ASM

[77] Stéphane Junca and Bruno Lombard. Analysis of a sugimoto model of nonlinear acoustics in an array of Helmholtz resonators. *SIAM Journal on Applied Mathematics*, 80(4):1704–1722, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dalwadi:2020:SUN

[78] Mohit P. Dalwadi and John R. King. A systematic upscaling of nonlinear chemical uptake within a biofilm. *SIAM Journal on Applied Mathematics*, 80 (4):1723–1750, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Banaji:2020:BOC

[79] Murad Banaji. Building oscillatory chemical reaction networks by adding reversible reactions. *SIAM Journal on Applied Mathematics*, 80(4):1751–1777, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hsu:2020:HPP

[80] Sze-Bi Hsu, Zhihua Liu, and Pierre Magal. A Holling predator–prey model with handling and searching predators. *SIAM Journal on Applied Mathematics*, 80(4):1778–1795, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhang:2020:BAG

[81] Qianqian Zhang, Biao Tang, Tianyu Cheng, and Sanyi Tang. Bifurcation analysis of a generalized impulsive Kolmogorov model with applications to pest and disease control. *SIAM Journal on Applied Mathematics*, 80 (4):1796–1819, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Huang:2020:SDT

[82] Zhe Huang and Chunhua Ou. Speed determinacy of traveling waves to a stream-population model with Allee effect. *SIAM Journal on Applied Mathematics*, 80(4):1820–1840, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chiarello:2020:MML

[83] Felisia A. Chiarello, Jan Friedrich, Paola Goatin, and Simone Göttlich. Micro-macro limit of a nonlocal generalized aw-Rascle type model. *SIAM Journal on Applied Mathematics*, 80(4): 1841–1861, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Parkinson:2020:MOH

[84] Christian Parkinson, David Arnold, Andrea Bertozzi, and Stanley Osher. A model for optimal human navigation with stochastic effects. *SIAM Journal on Applied Mathematics*, 80(4): 1862–1881, ???? 2020. CODEN

SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ferreira:2020:AEI

[85] José A. Ferreira, Paula de Oliveira, and Luís Pinto. Aging effect on iontophoretic transdermal drug delivery. *SIAM Journal on Applied Mathematics*, 80(4):1882–1907, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mofidi:2020:RPR

[86] Hamid Mofidi and Weishi Liu. Reversal potential and reversal permanent charge with unequal diffusion coefficients via classical Poisson–Nernst–Planck models. *SIAM Journal on Applied Mathematics*, 80(4):1908–1935, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Boros:2020:WRM

[87] Balázs Boros, Gheorghe Craciun, and Polly Y. Yu. Weakly reversible mass-action systems with infinitely many positive steady states. *SIAM Journal on Applied Mathematics*, 80(4): 1936–1946, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ilmavirta:2020:TCT

[88] Joonas Ilmavirta, Olli Koskela, and Jesse Railo. Torus computed tomography. *SIAM Journal on Applied Mathematics*, 80(4):1947–1976, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Spiridonov:2020:MNA

[89] Alexander O. Spiridonov, Alina Oktyabrskaya, Evgenii M. Karchevskii, and Alexander I. Nosich. Mathematical and numerical analysis of the generalized complex-frequency eigenvalue problem for two-dimensional optical microcavities. *SIAM Journal on Applied Mathematics*, 80(4):1977–1998, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chen:2020:EAP

[90] Shanshan Chen and Junping Shi. Erratum: Asymptotic Profiles of Basic Reproduction Number for Epidemic Spreading in Heterogeneous Environment. *SIAM Journal on Applied Mathematics*, 80(4):1999–2000, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [57].

Jiang:2020:EAS

[91] Yu Jiang, Hiroshi Fujiwara, and Gen Nakamura. Erratum for "Approximate Steady State Models for Magnetic Resonance Elastography". *SIAM Journal on Applied Mathematics*, 80(4):2001, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [1].

Li:2020:GDH

[92] Chin-Lung Li and Jinn-Liang Liu. Generalized Debye–Hückel equation from Poisson–Bikerman theory. *SIAM Journal on Applied Mathematics*, 80(5): 2003–2023, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Garcia-Cervera:2020:BVF

[93] Carlos J. García-Cervera, Tiziana Giorgi, and Sookyung Joo. Boundary vortex formation in polarization-modulated orthogonal smectic liquid

crystals. *SIAM Journal on Applied Mathematics*, 80(5):2024–2044, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lin:2020:MTF

[94] Junshan Lin, Stephen P. Shipman, and Hai Zhang. A mathematical theory for Fano resonance in a periodic array of narrow slits. *SIAM Journal on Applied Mathematics*, 80(5): 2045–2070, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ciesielski:2020:ADB

[95] Danielle Ciesielski, Stephanie McCalla, and Tomas Gedeon. Analysis of dynamics of a biphasic isothermal DNA amplification reaction. *SIAM Journal on Applied Mathematics*, 80(5): 2071–2097, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zemlyanova:2020:IMP

[96] Anna Y. Zemlyanova. Interaction of multiple plane straight fractures in the presence of the Steigmann–Ogden surface energy. *SIAM Journal on Applied Mathematics*, 80(5):2098–2119, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Nazaikinskii:2020:ESD

[97] Vladimir E. Nazaikinskii, Pavel G. Bedrikovetsky, Liudmila I. Kuzmina, and Yuri V. Osipov. Exact solution for deep bed filtration with finite blocking time. *SIAM Journal on Applied Mathematics*, 80(5):2120–2143, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gao:2020:HDD

[98] Daozhou Gao. How does dispersal affect the infection size? *SIAM Journal on Applied Mathematics*, 80 (5):2144–2169, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Reischmann:2020:MMS

[99] L. Reischmann and M. A. Peter. Multiscale modeling and simulation of a Cahn–Larché system with phase separation on the microscale. *SIAM Journal on Applied Mathematics*, 80 (5):2170–2193, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Boegli:2020:EMM

[100] Sabine Boegli and Christiane Tretter. Eigenvalues of magnetohydrodynamic mean-field dynamo models: Bounds and reliable computation. *SIAM Journal on Applied Mathematics*, 80(5): 2194–2225, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Fikl:2020:JRC

[101] Alexandru Fikl and Daniel J. Bodony. Jump relations of certain hypersingular Stokes kernels on regular surfaces. *SIAM Journal on Applied Mathematics*, 80(5):2226–2248, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Natchiar:2020:ACR

[102] S. R. Monisha Natchiar, Richard E. Hewitt, Phillip D. D. Monks, and Pe-

ter Morrall. Asymptotics of coupled reaction–diffusion fronts with multiple static and diffusing reactants: Uranium oxidation in water vapor. *SIAM Journal on Applied Mathematics*, 80 (5):2249–2270, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhang:2020:AFM

[103] Bo Zhang and Haiwen Zhang. An approximate factorization method for inverse acoustic scattering with phaseless total-field data. *SIAM Journal on Applied Mathematics*, 80(5):2271–2298, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dai:2020:MCH

[104] Shibin Dai, Bo Li, and Toai Luong. Minimizers for the Cahn–Hilliard energy functional under strong anchoring conditions. *SIAM Journal on Applied Mathematics*, 80(5):2299–2317, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Fan:2020:ECS

[105] Haitao Fan and Chi-Wang Shu. Existence and computation of solutions of a model of traffic involving hysteresis. *SIAM Journal on Applied Mathematics*, 80(6):2319–2337, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lindstrom:2020:DSM

[106] Torsten Lindström, Yuanji Cheng, and Subhendu Chakraborty. Destabilization, stabilization, and multiple attractors in saturated mixotrophic environments. *SIAM Journal on Applied Mathematics*, 80(6):2338–2364, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhang:2020:NFC

[107] Luchan Zhang and Yang Xiang. A new formulation of coupling and sliding motions of grain boundaries based on dislocation structure. *SIAM Journal on Applied Mathematics*, 80(6): 2365–2387, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Fan:2020:NHM

[108] Yuwei Fan, Ruo Li, and Lingchao Zheng. A nonlinear hyperbolic model for radiative transfer equation in slab geometry. *SIAM Journal on Applied Mathematics*, 80(6):2388–2419, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Roques:2020:AGT

[109] Lionel Roques, Florian Patout, Olivier Bonnefon, and Guillaume Martin. Adaptation in general temporally changing environments. *SIAM Journal on Applied Mathematics*, 80(6):2420–2447, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kwiecinski:2020:IAI

[110] James A. Kwiecinski, Alain Goriely, and S. Jon Chapman. Interactions of anisotropic inclusions on a fluid membrane. *SIAM Journal on Applied Mathematics*, 80(6):2448–2471, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Jenssen:2020:ABR

[111] Helge Kristian Jenssen and Charis Tsikkou. Amplitude blowup in radial isentropic Euler flow. *SIAM Journal on Applied Mathematics*, 80 (6):2472–2495, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Jiang:2020:SPN

[112] Tianpeng Jiang, Yang Xiang, and Luchan Zhang. Stochastic Peierls–Nabarro model for dislocations in high entropy alloys. *SIAM Journal on Applied Mathematics*, 80(6):2496–2517, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Xu:2020:CLA

[113] Jie Xu. Classifying local anisotropy formed by rigid molecules: Symmetries and tensors. *SIAM Journal on Applied Mathematics*, 80(6):2518–2546, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Li:2020:SAI

[114] Peijun Li, Jian Zhai, and Yue Zhao. Stability for the acoustic inverse source problem in inhomogeneous media. *SIAM Journal on Applied Mathematics*, 80 (6):2547–2559, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Uhlmann:2020:CNN

[115] Gunther Uhlmann and Yiran Wang. Convolutional neural networks in phase space and inverse problems. *SIAM Journal on Applied Mathematics*, 80 (6):2560–2585, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Evans:2020:TPB

[116] Ryan M. Evans, Arvind Balijepalli, and Anthony J. Kearsley. Transport phenomena in biological field effect transistors. *SIAM Journal on Applied Mathematics*, 80(6):2586–2607, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Wang:2020:PPP

[117] Zhenkun Wang and Hao Wang. Persistence and propagation of a PDE and discrete-time map hybrid animal movement model with habitat shift driven by climate change. *SIAM Journal on Applied Mathematics*, 80(6):2608–2630, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Amorim:2020:PPI

[118] Paulo Amorim. Predator–prey interactions with hunger structure. *SIAM Journal on Applied Mathematics*, 80 (6):2631–2656, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Barucq:2020:EAA

[119] Hélène Barucq, Florian Faucher, Damien Fournier, Laurent Gizon, and Ha Pham. Efficient and accurate algorithm for the full modal Green's kernel of the scalar wave equation in helioseismology. *SIAM Journal on Applied Mathematics*, 80(6):2657–2683, ???? 2020. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lawley:2021:EFI

[120] Sean D. Lawley. The effects of fast inactivation on conditional first passage times of mortal diffusive searchers. *SIAM Journal on Applied Mathematics*, 81(1):1–24, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hu:2021:ITH

[121] Guang-Hui Hu, Manmohan Vashisth, and Jiaqing Yang. Inverse time-harmonic electromagnetic scattering from coated polyhedral scatterers with a single far-field pattern. *SIAM Journal on Applied Mathematics*, 81(1):25–46, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gordon:2021:TFI

[122] Peter V. Gordon, Uday G. Hegde, and Michael C. Hicks. On traveling front of ignition in co-flow laminar reactive jets. *SIAM Journal on Applied Mathematics*, 81(1):47–59, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Assier:2021:SOQ

[123] Raphael C. Assier and I. David Abrahams. A surprising observation in the quarter-plane diffraction problem. *SIAM Journal on Applied Mathematics*, 81(1):60–90, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Klingenberg:2021:REC

[124] Christian Klingenberg, Ru-Yu Lai, and Qin Li. Reconstruction of the emission coefficient in the nonlinear radiative transfer equation. *SIAM Journal on Applied Mathematics*, 81(1):91–106, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bessonov:2021:EDS

[125] Nikolai Bessonov, Gennady Bocharov, Andreas Meyerhans, Vladimir Popov, and Vitaly Volpert. Existence and dynamics of strains in a nonlocal reaction–diffusion model of viral evolution. *SIAM Journal on Applied Mathematics*, 81(1):107–128, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Philip:2021:MES

[126] Rachel M. Philip, Ian J. Hewitt, and Peter D. Howell. Modeling the effect of surfactant on droplet breakup in a turbulent flow. *SIAM Journal on Applied Mathematics*, 81(1):129–152, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mazari:2021:FPN

[127] Idriss Mazari and Domènec Ruiz-Balet. A fragmentation phenomenon for a nonenergetic optimal control problem: Optimization of the total population size in logistic diffusive models. *SIAM Journal on Applied Mathematics*, 81(1):153–172, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Laurent-Brouty:2021:MTF

[128] Nicolas Laurent-Brouty, Guillaume Costeseque, and Paola Goatin. A macroscopic traffic flow model accounting for bounded acceleration. *SIAM Journal on Applied Mathematics*, 81(1):173–189, ???? 2021. CODEN SMJMAP. ISSN

0036-1399 (print), 1095-712X (electronic).

Lee:2021:CPE

[129] Wonjun Lee, Siting Liu, Hamidou Tembine, Wuchen Li, and Stanley Osher. Controlling propagation of epidemics via mean-field control. *SIAM Journal on Applied Mathematics*, 81 (1):190–207, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Vynnycky:2021:NTR

[130] Michael Vynnycky, Sean McKee, and Lesław Bieniasz. A NonLinear transient reaction–diffusion problem from electroanalytical chemistry. *SIAM Journal on Applied Mathematics*, 81(1):208–232, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhang:2021:SDT

[131] Ruming Zhang. Spectrum decomposition of translation operators in periodic waveguide. *SIAM Journal on Applied Mathematics*, 81(1):233–257, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gottlich:2021:SOT

[132] Simone Göttlich, Michael Herty, Salissou Moutari, and Jennifer Weissen. Second-order traffic flow models on networks. *SIAM Journal on Applied Mathematics*, 81(1):258–281, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kirsch:2021:EIP

[133] Andreas Kirsch and Andreas Rieder. Erratum: Inverse Problems for Abstract Evolution Equations II: Higher Order Differentiability for Viscoelasticity. *SIAM Journal on Applied Mathematics*, 81(1):282–283, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [3].

Pedersen:2021:ACE

[134] Geir K. Pedersen. Asymptotic, convergent, and exact truncating series solutions of the linear shallow water equations for channels with power law geometry. *SIAM Journal on Applied Mathematics*, 81(2):285–303, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gartland:2021:EFI

[135] Eugene C. Gartland, Jr. Electric-field-induced instabilities in nematic liquid crystals. *SIAM Journal on Applied Mathematics*, 81(2):304–334, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kim:2021:MHD

[136] Yong-Jung Kim and Hyowon Seo. Model for heterogeneous diffusion. *SIAM Journal on Applied Mathematics*, 81 (2):335–354, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Collin:2021:JSP

[137] Annabelle Collin, Thibaut Kritter, Clair Poignard, and Olivier Saut. Joint state-parameter estimation for tumor growth model. *SIAM Journal on Applied Mathematics*, 81(2):355–377, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gomez:2021:AAL

[138] Daniel Gomez, Michael J. Ward, and Juncheng Wei. An asymptotic analysis of localized three-dimensional spot patterns for the Gierer–Meinhardt model: Existence, linear stability, and slow dynamics. *SIAM Journal on Applied Mathematics*, 81(2):378–406, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cosner:2021:EDM

[139] Chris Cosner and Nancy Rodriguez. The effect of directed movement on the strong Allee effect. *SIAM Journal on Applied Mathematics*, 81(2):407–433, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Villa:2021:MEP

[140] Chiara Villa, Mark A. Chaplain, and Tommaso Lorenzi. Modeling the emergence of phenotypic heterogeneity in vascularized tumors. *SIAM Journal on Applied Mathematics*, 81(2):434–453, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cances:2021:GCM

[141] Clément Cancès and David Maltese. A gravity current model with capillary trapping for oil migration in multilayer geological basins. *SIAM Journal on Applied Mathematics*, 81(2):454–484, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Li:2021:IRS

[142] Peijun Li and Xu Wang. Inverse random source scattering for the Helmholtz equation with attenuation. *SIAM Journal on Applied Mathematics*, 81 (2):485–506, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lauretano:2021:RBL

[143] Giulio Lauretano and Renato Spigler. On the relation between the Lifshitz–Slyozov and the Lifshitz–Slyozov–Wagner models for supersaturated solutions. *SIAM Journal on Applied Mathematics*, 81(2):507–529, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Breit:2021:NMD

[144] Markus Breit and Gillian Queisser. The necessary modeling detail for neuronal signaling: Poisson–Nernst–Planck and cable equation models in one and three dimensions. *SIAM Journal on Applied Mathematics*, 81(2):530–550, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gonzalez:2021:TSH

[145] Oscar Gonzalez. Theorems on the Stokesian hydrodynamics of a rigid filament in the limit of vanishing radius. *SIAM Journal on Applied Mathematics*, 81(2):551–573, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Babb:2021:PLT

[146] T. Babb, G. P. Benham, J. Bows, R. Gonzalez-Farina, K. B. Kiradjiev, W. T. Lee, and S. Tibos. Predicting lift-off time when deep-frying potato dough snacks. *SIAM Journal on Applied Mathematics*, 81(2):574–590, ???? 2021. CO-

DEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kiradjiev:2021:HMR

[147] Kristian B. Kiradjiev, Christopher J. Breward, Ian Griffiths, and Donald W. Schwendeman. A homogenized model for a reactive filter. *SIAM Journal on Applied Mathematics*, 81(2):591–619, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Barel:2021:PGA

[148] Ariel Barel, Thomas Dagès, Rotem Manor, and Alfred M. Bruckstein. Probabilistic gathering of agents with simple sensors. *SIAM Journal on Applied Mathematics*, 81(2):620–640, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ndenda:2021:FOM

[149] Joseph P. Ndenda, John Boscoh H. Njagarah, and Conrad B. Tabi. Fractional-order model for myxomatosis transmission dynamics: Significance of contact, vector control and culling. *SIAM Journal on Applied Mathematics*, 81 (2):641–665, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lu:2021:MAW

[150] Wangtao Lu. Mathematical analysis of wave radiation by a step-like surface. *SIAM Journal on Applied Mathematics*, 81(2):666–693, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Rauch:2021:CGS

[151] Jeffrey Rauch and L. Ridgway Scott. The charge-group summation method for electrostatics of periodic crystals. *SIAM Journal on Applied Mathematics*, 81(2):694–717, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zheng:2021:MAI

[152] Bo Zheng, Jianshe Yu, and Jia Li. Modeling and analysis of the implementation of the wolbachia incompatible and sterile insect technique for mosquito population suppression. *SIAM Journal on Applied Mathematics*, 81(2):718–740, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mentus:2021:OMT

[153] Cassidy Mentus and Marcus Roper. Optimal mixing in transport networks: Numerical optimization and analysis. *SIAM Journal on Applied Mathematics*, 81(3):741–764, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Timms:2021:ARL

[154] Robert Timms, Scott G. Marquis, Valentin Sulzer, Colin P. Please, and S. Jonathan Chapman. Asymptotic reduction of a lithium-ion pouch cell model. *SIAM Journal on Applied Mathematics*, 81(3):765–788, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cantrell:2021:IFD

[155] Robert Stephen Cantrell, Chris Cosner, and King-Yeung Lam. Ideal free

dispersal under general spatial heterogeneity and time periodicity. *SIAM Journal on Applied Mathematics*, 81 (3):789–813, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Garnier:2021:PCA

[156] Josselin Garnier. Passive communication with ambient noise. *SIAM Journal on Applied Mathematics*, 81 (3):814–833, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Skene:2021:TLT

[157] David M. Skene and Luke G. Bennetts. A transition-loss theory for waves reflected and transmitted by an overwashed body. *SIAM Journal on Applied Mathematics*, 81(3):834–852, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Friesen:2021:SWF

[158] Martin Friesen, Hanno Gottschalk, Barbara Rüdiger, and Antoine Tordeux. Spontaneous wave formation in stochastic self-driven particle systems. *SIAM Journal on Applied Mathematics*, 81 (3):853–870, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Nicholls:2021:SLS

[159] David P. Nicholls and Xin Tong. Simulation of localized surface plasmon resonances in two dimensions via impedance–impedance operators. *SIAM Journal on Applied Mathematics*, 81 (3):871–896, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bevilacqua:2021:MMT

[160] Giulia Bevilacqua, Pasquale Ciarletta, and Alfio Quarteroni. Morphomechanical model of the torsional C-looping in the embryonic heart. *SIAM Journal on Applied Mathematics*, 81 (3):897–918, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bressloff:2021:DSC

[161] Paul C. Bressloff. Directional search-and-capture model of cytoneme-based morphogenesis. *SIAM Journal on Applied Mathematics*, 81(3):919–938, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Albuquerque:2021:LSB

[162] Yuri F. Albuquerque, Antoine Laurain, and Irwin Yousept. Level set-based shape optimization approach for sharp-interface reconstructions in time-domain full waveform inversion. *SIAM Journal on Applied Mathematics*, 81 (3):939–964, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lewis:2021:EET

[163] Owen L. Lewis and James P. Keener. Enhanced electrodiffusive transport across a mucus layer. *SIAM Journal on Applied Mathematics*, 81(3):965–981, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cox:2021:SMN

[164] Alexander M. Cox, Emma Horton, Andreas E. Kyprianou, and Denis Villemonais. Stochastic methods for neu-

tron transport equation III: Generational many-to-one and $k_{\mathtt{eff}}$. *SIAM Journal on Applied Mathematics*, 81 (3):982–1001, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Pandian:2021:SDS

[165] Arun Pandian, Jiahe Tony Li, and Snezhana I. Abarzhi. Scale-dependent and self-similar Rayleigh–Taylor and Richtmyer–Meshkov dynamics induced by acceleration varying with length scale. *SIAM Journal on Applied Mathematics*, 81(3):1002–1019, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ando:2021:SLP

[166] Kazunori Ando, Hyeonbae Kang, Yoshihisa Miyanishi, and Takashi Nakazawa. Surface localization of plasmons in three dimensions and convexity. *SIAM Journal on Applied Mathematics*, 81(3): 1020–1033, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chapman:2021:HFT

[167] S. Jonathan Chapman and Zachary M. Wilmott. Homogenization of flow through periodic networks. *SIAM Journal on Applied Mathematics*, 81 (3):1034–1051, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Liu:2021:TUB

[168] Jian-Guo Liu, Min Tang, Li Wang, and Zhennan Zhou. Toward understanding the boundary propagation speeds in tumor growth models. *SIAM Journal on Applied Mathematics*, 81(3): 1052–1076, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Yousefnezhad:2021:OCB

[169] Mohsen Yousefnezhad, Chiu-Yen Kao, and Seyyed Abbas Mohammadi. Optimal chemotherapy for brain tumor growth in a reaction-diffusion model. *SIAM Journal on Applied Mathematics*, 81(3):1077–1097, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Fan:2021:GRP

[170] Chao Fan, Bo Li, and Michael R. White. A generalized Rayleigh–Plesset equation for ions with solvent fluctuations. *SIAM Journal on Applied Mathematics*, 81(3):1098–1115, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Khademi:2021:AOA

[171] Amin Khademi and Xin Liu. Asymptotically optimal allocation policies for transplant queueing systems. *SIAM Journal on Applied Mathematics*, 81 (3):1116–1140, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Courtais:2021:SOF

[172] Alexis Courtais, Abderrazak M. Latifi, François Lesage, and Yannick Privat. Shape optimization of fixed-bed reactors in process engineering. *SIAM Journal on Applied Mathematics*, 81 (3):1141–1165, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kirkland:2021:IVC

[173] Stephen Kirkland, Zhisheng Shuai, P. van den Driessche, and Xueying Wang. Impact of varying community networks on disease invasion. *SIAM Journal on Applied Mathematics*, 81 (3):1166–1189, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kodsi:2021:BVP

[174] Costy Kodsi and Andrey P. Jivkov. Boundary value problem on a weighted graph relevant to the static analysis of truss structures. *SIAM Journal on Applied Mathematics*, 81(3): 1190–1201, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Choi:2021:SPB

[175] Sun-Ho Choi and Hyowon Seo. Synchronization in a power balance system with inertia and nonlinear derivatives. *SIAM Journal on Applied Mathematics*, 81(3):1202–1225, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ferreira:2021:LSL

[176] J. A. Ferreira, Paula de Oliveira, P. M. da Silva, and M. Grassi. From lifesaving to life-threatening: a mathematical model to simulate bacterial infections in surgical procedures. *SIAM Journal on Applied Mathematics*, 81 (3):1226–1247, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Potts:2021:SSS

[177] Jonathan R. Potts and Kevin J. Painter. Stable steady-state solutions of some biological aggregation models. *SIAM Journal on Applied Mathematics*, 81 (3):1248–1263, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Nouaoura:2021:MAT

[178] Sarra Nouaoura, Nahla Abdellatif, Radhouane Fekih-Salem, and Tewfik Sari. Mathematical analysis of a three-tiered model of anaerobic digestion. *SIAM Journal on Applied Mathematics*, 81 (3):1264–1286, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Stana:2021:DDC

[179] Remus Stana, Grant Lythe, and Carmen Molina-París. Diffusion in a disk with a circular inclusion. *SIAM Journal on Applied Mathematics*, 81 (3):1287–1302, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ackley:2021:DKP

[180] Matthew Ackley and Peter Stechlinski. Determining key parameters in riots using lexicographic directional differentiation. *SIAM Journal on Applied Mathematics*, 81(3):1303–1331, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Griesmaier:2021:EMI

[181] Roland Griesmaier and Bastian Harrach. Erratum: Monotonicity in inverse medium scattering on unbounded domains. *SIAM Journal on Applied Mathematics*, 81(3):1332–1337, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See [2].

Yang:2021:ANS

[182] Chang Yang and Léon Matar Tine. Analysis and numerical simulations of a reaction–diffusion model with fixed active bodies. *SIAM Journal on Applied Mathematics*, 81(4):1339–1360, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

King:2021:MAN

[183] John R. King, Jakub Köry, and Mariya Ptashnyk. Multiscale analysis of nutrient uptake by plant roots with sparse distribution of root hairs: Nonstandard scaling. *SIAM Journal on Applied Mathematics*, 81(4):1361–1388, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Yu:2021:LGS

[184] Yue Yu, Gianmarc Grazioli, Nolan E. Phillips, and Carter T. Butts. Local graph stability in exponential family random graph models. *SIAM Journal on Applied Mathematics*, 81(4):1389–1415, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mahler:2021:ACM

[185] Barbara I. Mahler. Analysis of contagion maps on a class of networks that are spatially embedded in a torus. *SIAM Journal on Applied Mathematics*, 81(4):1416–1440, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dekens:2021:FPS

[186] Léonard Dekens and Florian Lavigne. Front propagation of a sexual population with evolution of dispersion: a formal analysis. *SIAM Journal on Applied Mathematics*, 81(4):1441–1460, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kaltenbacher:2021:ILT

[187] Barbara Kaltenbacher and Vanja Nikolić. The inviscid limit of third-order linear and nonlinear acoustic equations. *SIAM Journal on Applied Mathematics*, 81(4):1461–1482, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bennetts:2021:CRI

[188] L. G. Bennetts and M. H. Meylan. Complex resonant ice shelf vibrations. *SIAM Journal on Applied Mathematics*, 81(4):1483–1502, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Canic:2021:NGM

[189] Suncica Canić, Yifan Wang, and Martina Bukac. A next-generation mathematical model for drug-eluting stents. *SIAM Journal on Applied Mathematics*, 81(4):1503–1529, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kow:2021:CNS

[190] Pu-Zhao Kow and Jenn-Nan Wang. On the characterization of nonradiating sources for the elastic waves in anisotropic inhomogeneous media. *SIAM Journal on Applied Mathematics*, 81(4):1530–1551, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Koprucki:2021:DHW

[191] Thomas Koprucki, Anieza Maltsi, and Alexander Mielke. On the Darwin–Howie–Whelan equations for the scattering of fast electrons described by the Schrödinger equation. *SIAM Journal on Applied Mathematics*, 81(4): 1552–1578, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Feng:2021:RDS

[192] Tao Feng, Zhipeng Qiu, and Yun Kang. Recruitment dynamics of social insect colonies. *SIAM Journal on Applied Mathematics*, 81(4):1579–1599, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dong:2021:PSS

[193] Fang-Di Dong, Jin Shang, William Fagan, and Bingtuan Li. Persistence and spread of solutions in a two-species Lotka–Volterra competition-diffusion model with a shifting habitat. *SIAM Journal on Applied Mathematics*, 81(4):1600–1622, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Joshi:2021:ANI

[194] Badal Joshi and Gheorghe Craciun. Autocatalytic networks: an intimate relation between network topology and dynamics. *SIAM Journal on Applied Mathematics*, 81(4):1623–1644, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ma:2021:MPN

[195] Manman Ma, Zhenli Xu, and Liwei Zhang. Modified Poisson–Nernst–Planck model with Coulomb and hard-sphere correlations. *SIAM Journal on Applied Mathematics*, 81(4):1645–1667, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Yaman:2021:IPP

[196] Olha Ivanyshyn Yaman and Frédérique Le Louër. An inverse parameter problem with generalized impedance boundary condition for two-dimensional linear viscoelasticity. *SIAM Journal on Applied Mathematics*, 81(4):1668–1690, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gorder:2021:LBI

[197] Robert A. Van Gorder, Alissa Kamilova, Rolf G. Birkeland, and Andrew L. Krause. Locating the baking isotherm in a Søderberg electrode: Analysis of a moving thermistor model. *SIAM Journal on Applied Mathematics*, 81 (4):1691–1716, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Polk:2021:NWD

[198] Sam L. Polk and Bruce M. Boghosian. The nonuniversality of wealth distribution tails near wealth condensation criticality. *SIAM Journal on Applied Mathematics*, 81(4):1717–1741, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cassidy:2021:DDD

[199] Tyler Cassidy. Distributed delay differential equation representations of cyclic differential equations. *SIAM Journal on Applied Mathematics*, 81(4):

1742–1766, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Turzi:2021:DDT

[200] Stefano Turzi. Drift-diffusion transport in a randomly inhomogeneous one-dimensional medium. *SIAM Journal on Applied Mathematics*, 81(4): 1767–1780, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

El-Morshedy:2021:ACD

[201] Hassan A. El-Morshedy and Alfonso Ruiz-Herrera. Asymptotic convergence in delay differential equations arising in epidemiology and physiology. *SIAM Journal on Applied Mathematics*, 81 (4):1781–1798, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bao:2021:ISP

[202] Gang Bao, Xiang Xu, and Jian Zhai. Inverse spectral problem for a damped wave operator. *SIAM Journal on Applied Mathematics*, 81(5):1799–1820, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Robert:2021:SMNa

[203] Philippe Robert and Gaëtan Vignoud. Stochastic models of neural synaptic plasticity. *SIAM Journal on Applied Mathematics*, 81(5):1821–1846, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Parshad:2021:SNR

[204] Rana D. Parshad, Kwadwo Antwi-Fordjour, and Eric M. Takyi. Some novel results in two species competition. *SIAM Journal on Applied Mathematics*, 81(5):1847–1869, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Wentz:2021:BCS

[205] Jacqueline M. Wentz and David M. Bortz. Boundedness of a class of spatially discrete reaction–diffusion systems. *SIAM Journal on Applied Mathematics*, 81(5):1870–1892, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Forien:2021:EMV

[206] Raphaël Forien, Guodong Pang, and Étienne Pardoux. Epidemic models with varying infectivity. *SIAM Journal on Applied Mathematics*, 81(5): 1893–1930, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Betermin:2021:TFO

[207] Laurent Bétermin. Theta functions and optimal lattices for a grid cells model. *SIAM Journal on Applied Mathematics*, 81(5):1931–1953, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Klibanov:2021:LLI

[208] Michael V. Klibanov, Jingzhi Li, and Wenlong Zhang. Linear lavrent'ev integral equation for the numerical solution of a nonlinear coefficient inverse problem. *SIAM Journal on Applied Mathematics*, 81(5):1954–1978, ???? 2021.

CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Arens:2021:MEC

[209] Tilo Arens, Roland Griesmaier, and Marvin Knöller. Maximizing the electromagnetic chirality of thin dielectric tubes. *SIAM Journal on Applied Mathematics*, 81(5):1979–2006, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bueler:2021:CLF

[210] Ed Bueler. Conservation laws for free-boundary fluid layers. *SIAM Journal on Applied Mathematics*, 81(5): 2007–2032, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hansen:2021:ODD

[211] Jakob Hansen and Robert Ghrist. Opinion dynamics on discourse sheaves. *SIAM Journal on Applied Mathematics*, 81(5):2033–2060, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Schreyer:2021:MRM

[212] Lynn Schreyer, Nikos Voulgarakis, Zachary Hilliard, Sergey Lapin, and Loren Cobb. Modeling refugee movement based on a continuum mechanics phase-field approach of porous media. *SIAM Journal on Applied Mathematics*, 81(5):2061–2082, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bertoglio:2021:RPM

[213] Cristobal Bertoglio, David Nolte, Grigory Panasenko, and Konstantinas Pileckas. Reconstruction of the pressure in the method of asymptotic partial decomposition for the flows in tube structures. *SIAM Journal on Applied Mathematics*, 81(5):2083–2110, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dong:2021:ACP

[214] Jiu-Gang Dong. Avoiding collisions and pattern formation in flocks. *SIAM Journal on Applied Mathematics*, 81 (5):2111–2129, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ha:2021:DSA

[215] Seung-Yeal Ha and Hansol Park. A dynamical systems approach for the shape matching of polytopes along rigid-body motions. *SIAM Journal on Applied Mathematics*, 81(5):2130–2152, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Li:2021:DFG

[216] Ruo Li, Weiming Li, and Lingchao Zheng. Direct flux gradient approximation to moment closure of kinetic equations. *SIAM Journal on Applied Mathematics*, 81(5):2153–2179, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zabarankin:2021:IPD

[217] Michael Zabarankin and Ying Zhang. Inverse problem for drop deformation in nonlinear electrohydrodynamics. *SIAM Journal on Applied Mathematics*, 81 (5):2180–2194, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Schreiber:2021:EQS

[218] Sebastian J. Schreiber, Shuo Huang, Jifa Jiang, and Hao Wang. Extinction and quasi-stationarity for discrete-time, endemic SIS and SIR models. *SIAM Journal on Applied Mathematics*, 81(5):2195–2217, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hodneland:2021:WPD

[219] Erlend Hodneland, Xiaozhe Hu, and Jan M. Nordbotten. Well-posedness and discretization for a class of models for mixed-dimensional problems with high-dimensional gap. *SIAM Journal on Applied Mathematics*, 81(5): 2218–2245, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gorb:2021:AEH

[220] Yuliya Gorb and Yuri Kuznetsov. Asymptotic expansions for high-contrast scalar and vectorial PDEs. *SIAM Journal on Applied Mathematics*, 81 (5):2246–2264, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Oblakova:2021:RSC

[221] A. Oblakova, A. Al Hanbali, R. J. Boucherie, J. C. W. van Ommeren, and W. H. M. Zijm. Roots, symmetry, and contour integrals in queuing-type systems. *SIAM Journal on Applied Mathematics*, 81(5):2265–2295, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kawano:2021:DPS

[222] Alexandre Kawano, Antonino Morassi, and Ramón Zaera. Detecting a prey in a spider orb-Web from in-plane vibration. *SIAM Journal on Applied Mathematics*, 81(6):2297–2322, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Petit:2021:RWD

[223] Julien Petit, Renaud Lambiotte, and Timoteo Carletti. Random walks on dense graphs and graphons. *SIAM Journal on Applied Mathematics*, 81 (6):2323–2345, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Coclite:2021:GEE

[224] G. M. Coclite, F. Maddalena, G. Puglisi, M. Romano, and G. Saccomandi. The Gardner equation in elastodynamics. *SIAM Journal on Applied Mathematics*, 81(6):2346–2361, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Robert:2021:SMNb

[225] Philippe Robert and Gaëtan Vignoud. Stochastic models of neural synaptic plasticity: a scaling approach. *SIAM Journal on Applied Mathematics*, 81 (6):2362–2386, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ji:2021:SRM

[226] Xia Ji and Xiaodong Liu. Source reconstruction with multifrequency sparse scattered fields. *SIAM Journal on Applied Mathematics*, 81(6):2387–2404, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Tao:2021:DDN

[227] Yiwen Tao, Sue Ann Campbell, and Francis J. Poulin. Dynamics of a diffusive nutrient-phytoplankton-zooplankton model with spatio-temporal delay. *SIAM Journal on Applied Mathematics*, 81(6):2405–2432, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Levitin:2021:IEL

[228] Michael Levitin, Peter Monk, and Virginia Selgas. Impedance eigenvalues in linear elasticity. *SIAM Journal on Applied Mathematics*, 81(6):2433–2456, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Alexander:2021:RSE

[229] Amanda M. Alexander and Sean D. Lawley. Reaction–subdiffusion equations with species-dependent movement. *SIAM Journal on Applied Mathematics*, 81(6):2457–2479, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cheng:2021:LME

[230] Jiaqi Cheng, Peter Chesson, and Xiaoying Han. The lottery model for ecological competition in nonstationary environments. *SIAM Journal on Applied Mathematics*, 81(6):2480–2502, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Li:2021:SIS

[231] Peijun Li, Xiaohua Yao, and Yue Zhao. Stability for an inverse source problem of the biharmonic operator. *SIAM Journal on Applied Mathematics*, 81 (6):2503–2525, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Crowdy:2021:VMF

[232] Darren G. Crowdy. Viscous Marangoni flow driven by insoluble surfactant and the complex Burgers equation. *SIAM Journal on Applied Mathematics*, 81 (6):2526–2546, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dang:2021:HNS

[233] Thuyen Dang, Yuliya Gorb, and Silvia Jiménez Bolaños. Homogenization of nondilute suspension of viscous fluid with magnetic particles. *SIAM Journal on Applied Mathematics*, 81 (6):2547–2568, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hu:2021:THA

[234] Guanghui Hu, Wangtao Lu, and Andreas Rathsfeld. Time-harmonic acoustic scattering from locally perturbed periodic curves. *SIAM Journal on Applied Mathematics*, 81(6):2569–2595, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ledoux:2021:ABE

[235] Jeremy Ledoux, Sebastián Riffo, and Julien Salomon. Analysis of the blade element momentum theory. *SIAM Journal on Applied Mathematics*, 81 (6):2596–2621, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Isaacson:2021:HRD

[236] Samuel A. Isaacson, Jingwei Ma, and Konstantinos Spiliopoulos. How reaction-diffusion PDEs approximate the large-population limit of stochastic particle models. *SIAM Journal on Applied Mathematics*, 81(6):2622–2657, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mercier:2021:VMA

[237] Jean-François Mercier. Variational methods for acoustic radiation in a duct with a shear flow and an absorbing boundary. *SIAM Journal on Applied Mathematics*, 81(6):2658–2683, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cohen:2021:NMA

[238] Reed B. Cohen and Jiaxu Li. A novel model and its analysis on the metabolic regulations of glucose, insulin, and glucagon. *SIAM Journal on Applied Mathematics*, 81(6): 2684–2703, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bottcher:2021:CQR

[239] Lucas Böttcher and Mason A. Porter. Classical and quantum random-walk centrality measures in multilayer networks. *SIAM Journal on Applied Mathematics*, 81(6):2704–2724, ???? 2021. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). See erratum [342].

Deng:2022:GPE

[240] Youjun Deng, Hongyu Liu, Xianchao Wang, and Wei Wu. On geometrical properties of electromagnetic transmission eigenfunctions and artificial mirage. *SIAM Journal on Applied Mathematics*, 82(1):1–24, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1413547`.

Lunz:2022:ONC

[241] Davin Lunz. Optimizing noisy complex systems liable to failure. *SIAM Journal on Applied Mathematics*, 82(1):25–48, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1416126`.

Lu:2022:DRT

[242] Jianfeng Lu, Jeremy L. Marzuola, and Alexander B. Watson. Defect resonances of truncated crystal structures. *SIAM Journal on Applied Mathematics*, 82(1): 49–74, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1415601`.

Ambrosi:2022:EMM

[243] D. Ambrosi, L. Deorsola, S. Turzi, and M. Zoppello. Elementary mechanics of the mitral valve. *SIAM Journal on Applied Mathematics*, 82(1):75–94, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1416655`.

Zhou:2022:SME

[244] Peng Zhou and Qihua Huang. A spatiotemporal model for the effects of toxicants on populations in a polluted river. *SIAM Journal on Applied Mathematics*, 82(1):95–118, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1405629`.

Li:2022:MRB

[245] Hongjie Li, Hongyu Liu, and Jun Zou. Minnaert resonances for bubbles in soft elastic materials. *SIAM Journal on Applied Mathematics*, 82(1):119–141, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1400572`.

Zhigun:2022:NDR

[246] Anna Zhigun and Christina Surulescu. A novel derivation of rigorous macroscopic limits from a micro-meso description of signal-triggered cell migration in fibrous environments. *SIAM Journal on Applied Mathematics*, 82(1):142–167, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1365442`.

Psaltis:2022:HSW

[247] Steven Psaltis, Robert Timms, Colin Please, and S. Jonathan Chapman. Homogenization of spirally wound high-contrast layered materials. *SIAM Journal on Applied Mathematics*, 82(1):168–193, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1377904`.

Gamba:2022:RTP

[248] Irene M. Gamba, Qin Li, and Anjali Nair. Reconstructing the thermal phonon transmission coefficient at solid interfaces in the phonon transport equation. *SIAM Journal on Applied Mathematics*, 82(1):194–220, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1381666`.

Huang:2022:SNT

[249] Kuang Huang and Qiang Du. Stability of a nonlocal traffic flow model for connected vehicles. *SIAM Journal on Applied Mathematics*, 82(1):221–243, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1355732`.

Liu:2022:MSM

[250] Xiaodong Liu, Shixu Meng, and Bo Zhang. Modified sampling method with near field measurements. *SIAM Journal on Applied Mathematics*, 82(1):244–266, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432235`.

Fogelson:2022:DFB

[251] Aaron L. Fogelson, Anna C. Nelson, Cheryl Zapata-Allegro, and James P. Keener. Development of fibrin branch structure before and after gelation. *SIAM Journal on Applied Mathematics*, 82(1):267–293, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1401024`.

Miroshnichenko:2022:PLM

[252] Taisia Miroshnichenko, Vladimir Gubernov, Sergey Minaev, Vladimir Mislavskii, and Junnosuke Okajima. Piecewise linear model of phytoplankton wave propagation in periodical vortex flow. *SIAM Journal on Applied Mathematics*, 82(1):294–312, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1405861`.

Kincl:2022:TAR

[253] Ondrej Kincl, Michal Pavelka, Frantisek Marsík, and Miroslav Sedlácek. Theoretical analysis of rolling fluid turbines. *SIAM Journal on Applied Mathematics*, 82(1):313–329, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1392796`.

Altmann:2022:LDG

[254] Robert Altmann, Patrick Henning, and Daniel Peterseim. Localization and delocalization of ground states of Bose–Einstein condensates under disorder. *SIAM Journal on Applied Mathematics*, 82(1):330–358, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1342434`.

Ballif:2022:ASS

[255] Guillaume Ballif, Frédérique Clément, and Romain Yvinec. Averaging of a stochastic slow-fast model for population dynamics: Application to the development of ovarian follicles. *SIAM Journal on Applied Mathematics*, 82(1):359–380, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1409615`.

Liu:2022:QLT

[256] A. Liu and F. M. G. Magpantay. A quantification of long transient dynamics. *SIAM Journal on Applied Mathematics*, 82(2):381–407, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1367131`.

Acosta:2022:NUI

[257] Sebastian Acosta, Gunther Uhlmann, and Jian Zhai. Nonlinear ultrasound imaging modeled by a Westervelt equation. *SIAM Journal on Applied Mathematics*, 82(2):408–426, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1431813`.

Darde:2022:CAE

[258] J. Dardé, N. Hyvönen, T. Kuutela, and T. Valkonen. Contact adapting electrode model for electrical impedance tomography. *SIAM Journal on Applied Mathematics*, 82(2):427–449, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1396125`.

Brun:2022:MPS

[259] Mats K. Brun, Elyes Ahmed, Jan M. Nordbotten, and Nils ChrStenseth. Modeling the process of speciation using a multiscale framework including a posteriori error estimates. *SIAM Journal*

on Applied Mathematics, 82(2):450–475, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1405228.

Marchner:2022:CNA

[260] Philippe Marchner, Xavier Antoine, Christophe Geuzaine, and Hadrien Bériot. Construction and numerical assessment of local absorbing boundary conditions for heterogeneous time-harmonic acoustic problems. *SIAM Journal on Applied Mathematics*, 82(2): 476–501, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1414929.

Ciallella:2022:LDR

[261] Alessandro Ciallella, Emilio N. M. Cirillo, and Barbara Vantaggi. Localization of defects via residence time measures. *SIAM Journal on Applied Mathematics*, 82(2):502–525, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/20M1380284.

Buze:2022:SFA

[262] Maciej Buze, Thoms E. Woolley, and Angela Mihai. A stochastic framework for atomistic fracture. *SIAM Journal on Applied Mathematics*, 82(2):526–548, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1416436.

Benes:2022:QNA

[263] Michal Benes, Miroslav Kolár, and Daniel Sevcovic. Qualitative and numerical aspects of a motion of a family of interacting curves in space. *SIAM Journal on Applied Mathematics*, 82(2):549–575, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1417181.

Liu:2022:NMP

[264] Shuang Liu, Yuan Lou, and Pengfei Song. A new monotonicity for principal eigenvalues with applications to time-periodic patch models. *SIAM Journal on Applied Mathematics*, 82(2):576–601, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/20M1320973.

Lai:2022:ITD

[265] Ru-Yu Lai, Kui Ren, and Ting Zhou. Inverse transport and diffusion problems in photoacoustic imaging with nonlinear absorption. *SIAM Journal on Applied Mathematics*, 82(2):602–624, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1436178.

Kirk:2022:MEH

[266] Toby L. Kirk, Jack Evans, Colin P. Please, and S. Jonathan Chapman. Modeling electrode heterogeneity in lithium-ion batteries: Unimodal and bimodal particle-size distributions. *SIAM Journal on Applied Mathematics*, 82(2): 625–653, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/20M1344305.

Chen:2022:TNP

[267] Shanshan Chen, Junping Shi, Zhisheng Shuai, and Yixiang Wu. Two novel proofs of spectral monotonicity of perturbed essentially nonnegative matrices with applications in population dynamics. *SIAM Journal on Applied Mathematics*, 82(2):654–676, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1345220`.

Vynnycky:2022:TNO

[268] Michael Vynnycky and Sean McKee. On a transient nonlinear one-dimensional reaction-diffusion equation with a point-source initial condition. *SIAM Journal on Applied Mathematics*, 82(2):677–693, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M140701X`.

Dalby:2022:ODF

[269] James Dalby, Patrick E. Farrell, Apala Majumdar, and Jingmin Xia. One-dimensional ferronematics in a channel: Order reconstruction, bifurcations, and multistability. *SIAM Journal on Applied Mathematics*, 82(2):694–719, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1400171`.

Meng:2022:EMT

[270] Qingle Meng, Zhengjian Bai, Huaian Diao, and Hongyu Liu. Effective medium theory for embedded obstacles in elasticity with applications to inverse problems. *SIAM Journal on Applied Mathematics*, 82(2):720–749, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1431369`.

Fox:2022:HQM

[271] Rodney O. Fox and Frédérique Laurent. Hyperbolic quadrature method of moments for the one-dimensional kinetic equation. *SIAM Journal on Applied Mathematics*, 82(2):750–771, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1406143`.

Tang:2022:AAS

[272] Tao Tang, Boyi Wang, and Jiang Yang. Asymptotic analysis on the sharp interface limit of the time-fractional Cahn–Hilliard equation. *SIAM Journal on Applied Mathematics*, 82(3):773–792, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1427863`.

Park:2022:CGS

[273] Youngmin Park, Prashant Singh, and Thomas G. Fai. Coarse-grained stochastic model of myosin-driven vesicles into dendritic spines. *SIAM Journal on Applied Mathematics*, 82(3):793–820, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1434180`.

Nie:2022:EDD

[274] Hua Nie, Yao Shi, and Jianhua Wu. The effect of diffusion on the dynamics of a predator–prey chemostat model. *SIAM*

Journal on Applied Mathematics, 82(3): 821–848, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1432090.

Negron-Marrero:2022:IEC

[275] Pablo V. Negrón-Marrero and Jeyabal Sivaloganathan. Infinite energy cavitating solutions: a variational approach. *SIAM Journal on Applied Mathematics*, 82(3):849–871, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1427711.

Nethercote:2022:DAW

[276] Matthew A. Nethercote, Anastasia V. Kisil, and Raphael C. Assier. Diffraction of acoustic waves by a wedge of point scatterers. *SIAM Journal on Applied Mathematics*, 82(3):872–898, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1438608.

Gao:2022:EAI

[277] Daozhou Gao, Justin M. W. Munganga, P. van den Driessche, and Lei Zhang. Effects of asymptomatic infections on the spatial spread of infectious diseases. *SIAM Journal on Applied Mathematics*, 82(3):899–923, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1398434.

Dondl:2022:EMS

[278] Patrick Dondl, Patrina S. P. Poh, and Marius Zeinhofer. An efficient model for scaffold mediated bone regeneration. *SIAM Journal on Applied Mathematics*, 82(3):924–949, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1401887.

Gu:2022:GRM

[279] Binan Gu, Lou Kondic, and Linda J. Cummings. A graphical representation of membrane filtration. *SIAM Journal on Applied Mathematics*, 82(3):950–975, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1424743.

Su:2022:GSC

[280] Wei Su and Xiang Zhang. Global stability and Canard explosions of the predator–prey model with the sigmoid functional response. *SIAM Journal on Applied Mathematics*, 82(3):976–1000, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1437755.

Rastegin:2022:ESE

[281] Alexey Rastegin. Estimating the Shannon entropy and (un)certainty relations for design-structured POVMs. *SIAM Journal on Applied Mathematics*, 82(3):1001–1019, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1408105.

Cao:2022:BJI

[282] Yining Cao and Xiaoming Wang. The Beavers–Joseph interface boundary con-

dition is well approximated by the Beavers–Joseph–Saffman–Jones interface boundary condition. *SIAM Journal on Applied Mathematics*, 82(3):1020–1044, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1462386.

Jin:2022:ROD

[283] Bangti Jin and Yavar Kian. Recovery of the order of derivation for fractional diffusion equations in an unknown medium. *SIAM Journal on Applied Mathematics*, 82(3):1045–1067, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1398264.

Chao:2022:PRE

[284] Ying Chao and Molei Tao. Parametric resonance for enhancing the rate of metastable transition. *SIAM Journal on Applied Mathematics*, 82(3):1068–1090, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M144966X.

Werner:2022:DIM

[285] Philipp Werner, Martin Burger, Florian Frank, and Harald Garcke. A diffuse interface model for cell blebbing including membrane–cortex coupling with linker dynamics. *SIAM Journal on Applied Mathematics*, 82(3):1091–1112, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1433642.

Li:2022:ISP

[286] Jianliang Li, Peijun Li, and Xu Wang. Inverse source problems for the stochastic wave equations: Far-field patterns. *SIAM Journal on Applied Mathematics*, 82(4):1113–1134, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1467663.

Grabovsky:2022:RSF

[287] Yury Grabovsky. Reconstructing Stieltjes functions from their approximate values: a search for a needle in a haystack. *SIAM Journal on Applied Mathematics*, 82(4):1135–1166, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1392279.

Wittwer:2022:MPM

[288] Nicolás Alejandro Barnafi Wittwer, Simone Di Gregorio, Luca Dede', Paolo Zunino, Christian Vergara, and Alfio Quarteroni. A multiscale poromechanics model integrating myocardial perfusion and the epicardial coronary vessels. *SIAM Journal on Applied Mathematics*, 82(4):1167–1193, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1424482.

Niethammer:2022:OBD

[289] B. Niethammer, R. L. Pego, A. Schlichting, and J. J. L. Velázquez. Oscillations in a Becker–Döring model with injection and depletion. *SIAM Journal on Applied Mathematics*, 82(4):1194–1219, ???? 2022. CODEN SMJMAP. ISSN

0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/20M1398664.

Schenk:2022:EUN

[290] Christina Schenk and Volker H. Schulz. Existence, uniqueness, and numerical modeling of wine fermentation based on integro-differential equations. *SIAM Journal on Applied Mathematics*, 82(4):1220–1245, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/20M1362309.

Dages:2022:DSP

[291] Thomas Dagès and Alfred M. Bruckstein. Doubly stochastic pairwise interactions for agreement and alignment. *SIAM Journal on Applied Mathematics*, 82(4):1246–1266, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1394680.

Jiang:2022:TGB

[292] Kai Jiang, Wei Si, and Jie Xu. Tilt grain boundaries of hexagonal structures: a spectral viewpoint. *SIAM Journal on Applied Mathematics*, 82(4):1267–1286, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1463288.

Dhia:2022:HSM

[293] Anne-Sophie Bonnet-Ben Dhia, Simon N. Chandler-Wilde, and Sonia Fliss. On the half-space matching method for real wavenumber. *SIAM Journal on Applied Mathematics*, 82(4):1287–1311, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1459216.

Willis:2022:HSI

[294] Nathan Willis, Chee Han Tan, Christel Hohenegger, and Braxton Osting. High spots for the ice-fishing problem with surface tension. *SIAM Journal on Applied Mathematics*, 82(4):1312–1335, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1458879.

Liang:2022:TEC

[295] Nan Liang, Maoxing Liu, Yongzheng Sun, Rui Xiao, and Lingzhi Zhao. Time and energy costs for synchronization of Kuramoto-oscillator networks with or without noise perturbation. *SIAM Journal on Applied Mathematics*, 82(4):1336–1355, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1457928.

Li:2022:NER

[296] Conway Li, Neville Fowkes, Brendan Florio, and Miccal Matthews. Near-exact radiating fins via boundary tracing. *SIAM Journal on Applied Mathematics*, 82(4):1356–1368, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1476228.

Aguayo:2022:AOI

[297] Jorge Aguayo and Hugo Carrillo Lincopi. Analysis of obstacles immersed

in viscous fluids using Brinkman's law for steady Stokes and Navier–Stokes equations. *SIAM Journal on Applied Mathematics*, 82(4):1369–1386, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/20M138569X.

Schnitzer:2022:APP

[298] Ory Schnitzer and Richard Porter. Acoustics of a partially partitioned narrow slit connected to a half-plane: Case study for exponential quasi-bound states in the continuum and their resonant excitation. *SIAM Journal on Applied Mathematics*, 82(4):1387–1410, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1470426.

Li:2022:BTL

[299] Conway Li, Neville Fowkes, and Miccal Matthews. Boundary tracing for Laplace's equation with conformal mapping. *SIAM Journal on Applied Mathematics*, 82(4):1411–1422, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1476241.

Ancona:2022:SSA

[300] Fabio Ancona, Alberto Bressan, and Maria Teresa Chiri. Soil searching by an artificial root. *SIAM Journal on Applied Mathematics*, 82(4):1423–1445, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/20M1338678.

Hiptmair:2022:SQR

[301] Ralf Hiptmair, Andrea Moiola, and Euan A. Spence. Spurious quasi-resonances in boundary integral equations for the Helmholtz transmission problem. *SIAM Journal on Applied Mathematics*, 82(4):1446–1469, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1447052.

Kraitzman:2022:SMB

[302] Noa Kraitzman, Keith Promislow, and Brian Wetton. Slow migration of brine inclusions in first-year sea ice. *SIAM Journal on Applied Mathematics*, 82(4):1470–1494, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1440244.

Kunz:2022:DRA

[303] Valentin D. Kunz and Raphael Assier. Diffraction by a right-angled no-contrast penetrable wedge revisited: a double Wiener–Hopf approach. *SIAM Journal on Applied Mathematics*, 82(4):1495–1519, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1461861.

Davies:2022:CME

[304] Cameron Davies, Tongseok Lim, and Robert J. McCann. Classifying minimum energy states for interacting particles: Spherical shells. *SIAM Journal on Applied Mathematics*, 82(4):1520–1536, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (elec-

tronic). URL https://epubs.siam.org/doi/10.1137/21M1455309.

Goldsztein:2022:WPB

[305] Guillermo H. Goldsztein. Wobbling of pedestrian bridges. *SIAM Journal on Applied Mathematics*, 82(4):1537–1557, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1463148.

Hua:2022:ERO

[306] Yifan Hua, Kevin Miller, Andrea L. Bertozzi, Chen Qian, and Bao Wang. Efficient and reliable overlay networks for decentralized federated learning. *SIAM Journal on Applied Mathematics*, 82(4):1558–1586, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1465081.

Sun:2022:DDF

[307] Gui-Quan Sun, Hong-Tao Zhang, Li-Li Chang, Zhen Jin, Hao Wang, and Shigui Ruan. On the dynamics of a diffusive foot-and-mouth disease model with nonlocal infections. *SIAM Journal on Applied Mathematics*, 82(4):1587–1610, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1412992.

Ammari:2022:VTB

[308] Habib Ammari, Francesco Fiorani, and Erik Orvehed Hiltunen. On the validity of the tight-binding method for describing systems of subwavelength resonators. *SIAM Journal on Applied Mathematics*, 82(4):1611–1634, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1449804.

Bruna:2022:PSS

[309] Maria Bruna, Martin Burger, Antonio Esposito, and Simon M. Schulz. Phase separation in systems of interacting active Brownian particles. *SIAM Journal on Applied Mathematics*, 82(4):1635–1660, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1452524.

Fayolle:2022:SSS

[310] Guy Fayolle, Jean-Marc Lasgouttes, and Carlos Flores. Stability and string stability of car-following models with reaction-time delay. *SIAM Journal on Applied Mathematics*, 82(5):1661–1679, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1443650.

Wang:2022:SSR

[311] Hao Wang, Kai Wang, and Yong-Jung Kim. Spatial segregation in reaction-diffusion epidemic models. *SIAM Journal on Applied Mathematics*, 82(5):1680–1709, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1485814.

Zhang:2022:MBF

[312] Wenzhong Zhang, Bo Wang, and Wei Cai. A matrix basis formulation for the dyadic Green's functions of Maxwell's equations in lay-

ered media. *SIAM Journal on Applied Mathematics*, 82(5):1710–1732, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1429102`.

Iwasaki:2022:SWR

[313] Satoru Iwasaki, Shuichi Jimbo, and Yoshihisa Morita. Standing waves of reaction-diffusion equations on an unbounded graph with two vertices. *SIAM Journal on Applied Mathematics*, 82(5):1733–1763, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1454572`.

Chang:2022:SOC

[314] Lili Chang, Wei Gong, Zhen Jin, and Gui-Quan Sun. Sparse optimal control of pattern formations for an SIR reaction-diffusion epidemic model. *SIAM Journal on Applied Mathematics*, 82(5):1764–1790, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1472127`.

Jahedi:2022:RSA

[315] Sana Jahedi, Timothy Sauer, and James A. Yorke. Robustness of solutions of almost every system of equations. *SIAM Journal on Applied Mathematics*, 82(5):1791–1807, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1483529`.

Shi:2022:NLC

[316] Baoming Shi, Yucen Han, and Lei Zhang. Nematic liquid crystals in a rectangular confinement: Solution landscape, and bifurcation. *SIAM Journal on Applied Mathematics*, 82(5):1808–1828, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1447404`.

Feng:2022:GCP

[317] Lirui Feng, Yi Wang, and Jianhong Wu. Generic convergence to periodic orbits for monotone flows with respect to 2-cones and applications to SEIRS models. *SIAM Journal on Applied Mathematics*, 82(5):1829–1850, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466566`.

Cang:2022:SOT

[318] Zixuan Cang, Qing Nie, and Yanxiang Zhao. Supervised optimal transport. *SIAM Journal on Applied Mathematics*, 82(5):1851–1877, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1469171`.

Wang:2022:GDF

[319] Jiafu Wang, Shan Zhang, and Lin Wang. Global dynamics of a Filippov SIQR model with delayed relay control. *SIAM Journal on Applied Mathematics*, 82(6):1879–1902, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462830`.

Qu:2022:MSW

[320] Zhuolin Qu, Tong Wu, and James M. Hyman. Modeling spatial waves of wolbachia invasion for controlling mosquito-borne diseases. *SIAM Journal on Applied Mathematics*, 82(6):1903–1929, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1440384`.

Klimm:2022:MMG

[321] Florian Klimm, Nick S. Jones, and Michael T. Schaub. Modularity maximization for graphons. *SIAM Journal on Applied Mathematics*, 82(6):1930–1952, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1492003`.

Lippitt:2022:SIM

[322] William Lippitt, Sunder Sethuraman, and Xueying Tang. Stationarity and inference in multistate promoter models of stochastic gene expression via stick-breaking measures. *SIAM Journal on Applied Mathematics*, 82(6):1953–1986, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1440876`.

Higham:2022:MFA

[323] Desmond John Higham and Henry-Louis de Kergorlay. Mean field analysis of hypergraph contagion models. *SIAM Journal on Applied Mathematics*, 82(6):1987–2007, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1440219`.

Popovic:2022:LDA

[324] Lea Popovic and Giovanni Zoroddu. Large deviations for additive functionals of reflected jump-diffusions. *SIAM Journal on Applied Mathematics*, 82(6):2008–2035, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1446162`.

Sahneh:2022:EEP

[325] Faryad D. Sahneh, William Fries, Joseph C. Watkins, and Joceline Lega. Epidemics from the eye of the pathogen. *SIAM Journal on Applied Mathematics*, 82(6):2036–2056, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1450719`.

Ledger:2022:MOC

[326] P. D. Ledger and W. R. B. Lionheart. Minimal object characterizations using harmonic generalized polarizability tensors and symmetry groups. *SIAM Journal on Applied Mathematics*, 82(6):2057–2079, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1471547`.

Matin:2022:NCD

[327] Hossein Nick Zinat Matin and Richard B. Sowers. Near-collision dynamics in a noisy car-following model. *SIAM Journal on Applied Mathematics*, 82 (6):2080–2110, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1454055`.

Zhang:2022:CIM

[328] Yaming Zhang, Thomas Stiehl, and Min Tang. A continuous integral model for white blood cell production. *SIAM Journal on Applied Mathematics*, 82(6):2111–2130, ???? 2022. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M147668X.

Demeio:2023:WPS

[329] Lucio Demeio and Stefano Lenci. Wave propagation on a string resting on a general nonlinear substrate. *SIAM Journal on Applied Mathematics*, 83(1):1–24, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1503488.

Borcea:2023:PWP

[330] Liliana Borcea, Josselin Garnier, and Knut Sølna. Paraxial wave propagation in random media with long-range correlations. *SIAM Journal on Applied Mathematics*, 83(1):25–51, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M149524X.

Cheng:2023:EFO

[331] Xinyu Cheng, Zhaohui Fu, and Brian Wetton. Equivalent formulations of the oxygen depletion problem, other implicit moving boundary value problems, and implications for numerical approximation. *SIAM Journal on Applied Mathematics*, 83(1):52–78, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1419167.

Pelinovsky:2023:KIA

[332] Dmitry Pelinovsky and Guido Schneider. KP-II approximation for a scalar Fermi–Pasta–Ulam system on a 2D square lattice. *SIAM Journal on Applied Mathematics*, 83(1):79–98, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1509369.

Fang:2023:FRD

[333] Chengran Fang, Demian Wassermann, and Jing-Rebecca Li. Fourier representation of the diffusion MRI signal using layer potentials. *SIAM Journal on Applied Mathematics*, 83(1):99–121, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1439572.

Klimasara:2023:MSS

[334] Paweł Klimasara and Marta Tyran-Kamińska. A model of seasonal savanna dynamics. *SIAM Journal on Applied Mathematics*, 83(1):122–143, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1461393.

Lunz:2023:MOC

[335] Davin Lunz and J. Frédéric Bonnans. Modeling and optimal control of a two-species bioproducing microbial consortium. *SIAM Journal on Applied Mathematics*, 83(1):144–171, ???? 2023. CODEN SMJMAP. ISSN

0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1476113.

Pichor:2023:APG

[336] Katarzyna Pichór and Ryszard Rudnicki. Asymptotic properties of a general model of immune status. *SIAM Journal on Applied Mathematics*, 83(1):172–193, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1466906.

Putra:2023:FPA

[337] Prama Putra, Hadrien Oliveri, Travis Thompson, and Alain Goriely. Front propagation and arrival times in networks with application to neurodegenerative diseases. *SIAM Journal on Applied Mathematics*, 83(1):194–224, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1467547.

Schmeller:2023:GFC

[338] Leonie Schmeller and Dirk Peschka. Gradient flows for coupling order parameters and mechanics. *SIAM Journal on Applied Mathematics*, 83(1):225–253, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M148478X.

Wei:2023:ENE

[339] Chaozhen Wei and Min Wu. An Eulerian nonlinear elastic model for compressible and fluidic tissue with radially symmetric growth. *SIAM Journal on Applied Mathematics*, 83(1):254–275, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1463653.

Fan:2023:DMT

[340] Guihong Fan, Juan Li, Jacques Bélair, and Huaiping Zhu. Delayed model for the transmission and control of COVID-19 with fangcang shelter hospitals. *SIAM Journal on Applied Mathematics*, 83(1):276–301, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M146154X.

Xu:2023:UID

[341] Xiaoxu Xu, Guanghui Hu, Bo Zhang, and Haiwen Zhang. Uniqueness in inverse diffraction grating problems with infinitely many plane waves at a fixed frequency. *SIAM Journal on Applied Mathematics*, 83(1):302–326, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1480963.

Bottcher:2023:ECQ

[342] Lucas Böttcher and Mason A. Porter. Erratum: Classical and quantum random-walk centrality measures in multilayer networks. *SIAM Journal on Applied Mathematics*, 83(1):327–328, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1522139. See [239].

Bansal:2023:SMN

[343] Diksha Bansal, Dipa Ghosh, and Sarthok Sircar. Selection mechanism

in non-Newtonian Saffman–Taylor fingers. *SIAM Journal on Applied Mathematics*, 83(2):329–353, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1485838`.

Britton:2023:OIS

[344] Tom Britton and Lasse Leskelä. Optimal intervention strategies for minimizing total incidence during an epidemic. *SIAM Journal on Applied Mathematics*, 83(2):354–373, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1504433`.

Qiao:2023:MAN

[345] Zhonghua Qiao, Zhenli Xu, Qian Yin, and Shenggao Zhou. A Maxwell–Ampère Nernst–Planck framework for modeling charge dynamics. *SIAM Journal on Applied Mathematics*, 83(2):374–393, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1477891`.

Meng:2023:SMM

[346] Shixu Meng. Single mode multi-frequency factorization method for the inverse source problem in acoustic waveguides. *SIAM Journal on Applied Mathematics*, 83(2):394–417, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462891`.

Li:2023:ISP

[347] Wei Li, John C. Schotland, Yang Yang, and Yimin Zhong. Inverse source problem for acoustically-modulated electromagnetic waves. *SIAM Journal on Applied Mathematics*, 83(2):418–435, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480690`.

Dubovskaya:2023:AMF

[348] Alina Dubovskaya, Susan C. Fennell, Kevin Burke, James P. Gleeson, and Doireann O'Kiely. Analysis of mean-field approximation for Deffuant opinion dynamics on networks. *SIAM Journal on Applied Mathematics*, 83(2):436–459, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1499765`.

Awasthi:2023:EAT

[349] Piyush Awasthi, Mahendhar Kumar, and Yana Nec. Effects of anisotropy in tridimensional diffusion: Flow patterns and transport efficiency. *SIAM Journal on Applied Mathematics*, 83(2):460–483, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1476642`.

Cui:2023:WHF

[350] Jianbo Cui, Shu Liu, and Haomin Zhou. Wasserstein Hamiltonian flow with common noise on graph. *SIAM Journal on Applied Mathematics*, 83(2):484–509, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1490697`.

Zhang:2023:SEA

[351] Hai-E Zhang, Gen-Qi Xu, and Zhong-Jie Han. Stability and eigenvalue asymptotics of multi-dimensional fully magnetic effected piezoelectric system with friction-type infinite memory. *SIAM Journal on Applied Mathematics*, 83(2): 510–529, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1486790`.

Zhang:2023:IBP

[352] Jimin Zhang, Pingping Cong, and Meng Fan. Interactions between pelagic and benthic producers: Asymmetric competition for light and nutrients. *SIAM Journal on Applied Mathematics*, 83(2): 530–552, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1491290`.

Valovik:2023:MEN

[353] Dmitry V. Valovik. Maxwell's equations with nonlinear inhomogeneous constitutive relation: Guided waves in a film filled with inhomogeneous Kerr medium. *SIAM Journal on Applied Mathematics*, 83(2):553–575, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1489587`.

Gai:2023:RMC

[354] Chunyi Gai and Theodore Kolokolnikov. Resource-mediated competition between two plant species with different rates of water intake. *SIAM Journal on Applied Mathematics*, 83(2):576–602, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M144623X`.

Zemlyanova:2023:APP

[355] Anna Y. Zemlyanova and Lauren M. White. An axisymmetric problem for a patch loaded material surface attached to the boundary of an elastic semi-space. *SIAM Journal on Applied Mathematics*, 83(2):603–624, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1523753`.

Feppon:2023:SRO

[356] Florian Feppon, Zijian Cheng, and Habib Ammari. Subwavelength resonances in one-dimensional high-contrast acoustic media. *SIAM Journal on Applied Mathematics*, 83(2):625–665, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1503841`.

Li:2023:NPM

[357] Buyang Li, Yonglin Li, and Weiying Zheng. A new perfectly matched layer method for the Helmholtz equation in nonconvex domains. *SIAM Journal on Applied Mathematics*, 83(2):666–694, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1482524`.

Katsevich:2023:RDR

[358] Alexander Katsevich. Resolution of 2 dimensional reconstruction of functions with nonsmooth edges from discrete Radon transform data. *SIAM Journal*

on Applied Mathematics, 83(2):695–724, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466712`.

Hanevy:2023:AAF

[359] Niall Hanevy and Doireann O'Kiely. Asymptotic analysis for fiber drawing processes. *SIAM Journal on Applied Mathematics*, 83(2):725–747, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1470074`.

Banaji:2023:SRP

[360] Murad Banaji. Splitting reactions preserves nondegenerate behaviors in chemical reaction networks. *SIAM Journal on Applied Mathematics*, 83(2):748–769, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1478392`.

Mascali:2023:SET

[361] Giovanni Mascali. Some electric, thermal, and thermoelectric properties of suspended monolayer graphene. *SIAM Journal on Applied Mathematics*, 83(2):770–790, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M147548X`.

Niu:2023:WIH

[362] Yuanling Niu, Hao Kang, Pingyang Wang, Chenchen Guo, Fan Nie, Hongbin Ji, Jiarui Wu, and Luonan Chen. Why increase of heterogeneity signals predeterioration during tumor progression: a unified mathematical model. *SIAM Journal on Applied Mathematics*, 83(2):791–815, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1497729`.

Glendinning:2023:NFD

[363] Paul A. Glendinning and David J. W. Simpson. Normal forms, differentiable conjugacies, and elementary bifurcations of maps. *SIAM Journal on Applied Mathematics*, 83(2):816–836, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1503701`.

Montefusco:2023:RHL

[364] Alberto Montefusco, Christof Schütte, and Stefanie Winkelmann. A route to the hydrodynamic limit of a reaction-diffusion master equation using gradient structures. *SIAM Journal on Applied Mathematics*, 83(2):837–861, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1488831`.

Bressloff:2023:ATD

[365] Paul C. Bressloff. Accumulation time of diffusion in a 3D singularly perturbed domain. *SIAM Journal on Applied Mathematics*, 83(2):862–881, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1475843`.

Vynnycky:2023:AMG

[366] Michael Vynnycky, Bharath V. Rangavittal, and Björn Glaser. An asymptotic model for gas-solid flow in a coun-

tercurrent moving bed reactor. *SIAM Journal on Applied Mathematics*, 83(2): 882–908, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1496293.

Hayat:2023:DTJ

[367] Amaury Hayat, Benedetto Piccoli, and Sydney Truong. Dissipation of traffic jams using a single autonomous vehicle on a ring road. *SIAM Journal on Applied Mathematics*, 83(3):909–937, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1414346.

Doak:2023:NSW

[368] Alex Doak, Guido Baardink, Paul A. Milewski, and Anton Souslov. Nonlinear shallow-water waves with vertical odd viscosity. *SIAM Journal on Applied Mathematics*, 83(3):938–965, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M149082X.

Miyoshi:2023:GSI

[369] Hiroyuki Miyoshi and Darren G. Crowdy. Generalized Schwarz integral formulas for multiply connected domains. *SIAM Journal on Applied Mathematics*, 83(3):966–984, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506419.

Dosmagulova:2023:OCP

[370] Karlygash Dosmagulova, Vladimir Mityushev, and Zhanat Zhunussova. On the optimal conductivity of packed two-dimensional dispersed composites. *SIAM Journal on Applied Mathematics*, 83(3):985–999, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1527660.

Worsfold:2023:DFS

[371] Jeremy R. Worsfold, Tim Rogers, and Paul Milewski. Density fluctuations in stochastic kinematic flows. *SIAM Journal on Applied Mathematics*, 83(3):1000–1024, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1494166.

Hong:2023:CTF

[372] Hyukpyo Hong, Bryan S. Hernandez, Jinsu Kim, and Jae Kyoung Kim. Computational translation framework identifies biochemical reaction networks with special topologies and their long-term dynamics. *SIAM Journal on Applied Mathematics*, 83(3):1025–1048, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M150469X.

Wang:2023:LMS

[373] Sára Wang, Mirza Karamehmedović, and Faouzi Triki. Localization of moving sources: Uniqueness, stability, and Bayesian inference. *SIAM Journal on Applied Mathematics*, 83(3):1049–1073, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1500691.

Mozumder:2023:TWC

[374] Ali Mozumder, Artur Safin, Susan E. Minkoff, and John Zweck. A two-way coupled model of visco-thermo-acoustic effects in photoacoustic trace gas sensors. *SIAM Journal on Applied Mathematics*, 83(3):1074–1097, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1447659.

Qu:2023:MIM

[375] Zhuolin Qu, Denis Patterson, Lauren M. Childs, Christina J. Edholm, Joan Ponce, Olivia Prosper, and Lihong Zhao. Modeling immunity to malaria with an age-structured PDE framework. *SIAM Journal on Applied Mathematics*, 83(3):1098–1125, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1464427.

Adriazola:2023:ADE

[376] Jimmie Adriazola and Roy H. Goodman. Apodizer design to efficiently couple light into a fiber Bragg grating. *SIAM Journal on Applied Mathematics*, 83(3):1126–1145, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1507759.

Celora:2023:DCP

[377] Giulia L. Celora, Matthew G. Hennessy, Andreas Muench, Barbara Wagner, and Sarah Waters. The dynamics of a collapsing polyelectrolyte gel. *SIAM Journal on Applied Mathematics*, 83(3):1146–1171, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1419726.

Girardin:2023:AEC

[378] Léo Girardin and Baptiste Maucourt. Agro-ecological control of a pest-host system: Preventing spreading. *SIAM Journal on Applied Mathematics*, 83(3):1172–1195, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1508066.

Gao:2023:IPP

[379] Yixian Gao, Hongyu Liu, and Yang Liu. On an inverse problem for the plate equation with passive measurement. *SIAM Journal on Applied Mathematics*, 83(3):1196–1214, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1499881.

MacLaurin:2023:PRW

[380] J. MacLaurin. Phase reduction of waves, patterns, and oscillations subject to spatially extended noise. *SIAM Journal on Applied Mathematics*, 83(3):1215–1244, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1451221.

Zheng:2023:APT

[381] Zhong Zheng. Accumulation of particles towards the envelope of a fluid-infused patch under evaporation. *SIAM Journal on Applied Mathematics*, 83(3):1245–1271, ???? 2023. CODEN SMJMAP.

ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1472784`.

Huang:2023:OSC

[382] Wenlin Huang, Jin Liang, and Yuchao Dong. Optimal stochastic control problem for a carbon emission reduction process. *SIAM Journal on Applied Mathematics*, 83(3):1272–1295, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1496840`.

Liu:2023:TVF

[383] X. Liu, J. Song, F. Pourahmadian, and H. Haddar. Time- versus frequency-domain inverse elastic scattering: Theory and experiment. *SIAM Journal on Applied Mathematics*, 83(3):1296–1314, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1522437`.

Bailo:2023:BPF

[384] Rafael Bailo, José A. Carrillo, and Jingwei Hu. Bound-preserving finite-volume schemes for systems of continuity equations with saturation. *SIAM Journal on Applied Mathematics*, 83(3):1315–1339, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1488703`.

Chen:2023:SRP

[385] Junren Chen and Michael K. Ng. Signal reconstruction from phase-only measurements: Uniqueness condition, minimal measurement number and beyond. *SIAM Journal on Applied Mathematics*, 83(4):1341–1365, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432077`.

Autry:2023:MFR

[386] Eric Autry, Daniel Carter, Gregory J. Herschlag, Zach Hunter, and Jonathan C. Mattingly. Metropolized forest recombination for Monte Carlo sampling of graph partitions. *SIAM Journal on Applied Mathematics*, 83(4):1366–1391, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1418010`.

Garnier:2023:PDM

[387] Josselin Garnier, Ziyu Lu, and Laurent Mertz. A piecewise deterministic Markov process approach modeling a dry friction problem with noise. *SIAM Journal on Applied Mathematics*, 83(4):1392–1421, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480847`.

Herrmann:2023:IHP

[388] Michael Herrmann and Barbara Niethammer. Instability of hysteretic phase interfaces in a mean-field model with inhomogeneities. *SIAM Journal on Applied Mathematics*, 83(4):1422–1443, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M153197X`.

Chemnitz:2023:SSS

[389] Robin Chemnitz. Sensitivity of steady states in networks with application

to Markov chains and chemical reaction networks. *SIAM Journal on Applied Mathematics*, 83(4):1444–1466, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M150770X.

Li:2023:FHB

[390] Sirui Li and Jie Xu. Frame hydrodynamics of biaxial nematics from molecular-theory-based tensor models. *SIAM Journal on Applied Mathematics*, 83(4):1467–1495, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/21M1465792.

Jin:2023:IPS

[391] Bangti Jin, Yavar Kian, and Zhi Zhou. Inverse problems for subdiffusion from observation at an unknown terminal time. *SIAM Journal on Applied Mathematics*, 83(4):1496–1517, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1529105.

Bressloff:2023:RES

[392] Paul C. Bressloff. Renewal equations for single-particle diffusion in multilayered media. *SIAM Journal on Applied Mathematics*, 83(4):1518–1545, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/23M1545835.

Li:2023:DPH

[393] Wei Li, Junshan Lin, and Hai Zhang. Dirac points for the honeycomb lattice with impenetrable obstacles. *SIAM Journal on Applied Mathematics*, 83(4):1546–1571, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1505116.

Jia:2023:ATD

[394] Chen Jia and Youming Li. Analytical time-dependent distributions for gene expression models with complex promoter switching mechanisms. *SIAM Journal on Applied Mathematics*, 83(4):1572–1602, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M147219X.

Lyu:2023:PSE

[395] Jhih-Hong Lyu and Tai-Chia Lin. PB-steric equations: a general model of Poisson–Boltzmann equations. *SIAM Journal on Applied Mathematics*, 83 (4):1603–1622, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1516270.

Ablowitz:2023:UAF

[396] Mark J. Ablowitz, Justin T. Cole, and S. D. Nixon. Unified approach to Floquet lattices, topological insulators, and their nonlinear dynamics. *SIAM Journal on Applied Mathematics*, 83(4):1623–1653, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1496979.

Li:2023:FMI

[397] Jiwei Li, Lingyun Qiu, Zhongjing Wang, and Hui Yu. Flow mea-

surement: an inverse problem formulation. *SIAM Journal on Applied Mathematics*, 83(4):1654–1676, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1530720`.

Kraisler:2023:TMW

[398] Joseph Kraisler, Wei Li, Kui Ren, John C. Schotland, and Yimin Zhong. Transport models for wave propagation in scattering media with nonlinear absorption. *SIAM Journal on Applied Mathematics*, 83(4):1677–1695, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1533505`.

Jahedi:2023:SSN

[399] Sana Jahedi, Timothy Sauer, and James A. Yorke. Structured systems of nonlinear equations. *SIAM Journal on Applied Mathematics*, 83(4):1696–1716, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1529178`.

Craciun:2023:AFW

[400] Gheorghe Craciun, Jiaxin Jin, and Polly Y. Yu. An algorithm for finding weakly reversible deficiency zero realizations of polynomial dynamical systems. *SIAM Journal on Applied Mathematics*, 83(4):1717–1737, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1499558`.

Ghandriche:2023:SRO

[401] Ahcene Ghandriche and Mourad Sini. Simultaneous reconstruction of optical and acoustical properties in photoacoustic imaging using plasmonics. *SIAM Journal on Applied Mathematics*, 83(4):1738–1765, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1534730`.

Skardal:2023:PFO

[402] Per Sebastian Skardal. Pattern formation and oscillations in nonlinear random walks on networks. *SIAM Journal on Applied Mathematics*, 83(5):1767–1784, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1536662`.

Jiang:2023:PMS

[403] Xue Jiang, Maohui Lyu, Tao Yin, and Weiying Zheng. A PML method for signal-propagation problems in axon. *SIAM Journal on Applied Mathematics*, 83(5):1785–1805, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1544063`.

Wang:2023:BRR

[404] Feng-Bin Wang, Lei Zhang, and Xiao-Qiang Zhao. Basic reproduction ratios for time-periodic homogeneous evolution systems. *SIAM Journal on Applied Mathematics*, 83(5):1806–1831, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1531865`.

Ying:2023:MCS

[405] Fabian Ying, Alisdair O. G. Wallis, Mason A. Porter, Sam D. Howison, and Mariano Beguerisse-Díaz. Minimizing congestion in single-source, single-sink queueing networks. *SIAM Journal on Applied Mathematics*, 83(5):1832–1853, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1457515`.

Ren:2023:BLL

[406] Xiaofeng Ren and Juncheng Wei. The BCC lattice in a long-range interaction system. *SIAM Journal on Applied Mathematics*, 83(5):1854–1871, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1511722`.

Cao:2023:UTP

[407] Fei Cao and Sébastien Motsch. Uncovering a two-phase dynamics from a dollar exchange model with bank and debt. *SIAM Journal on Applied Mathematics*, 83(5):1872–1891, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1518621`.

Zhang:2023:BAT

[408] Yuyue Zhang, Liqi Xie, Yueping Dong, Jicai Huang, Shigui Ruan, and Yasuhiro Takeuchi. Bifurcation analysis in a tumor-immune system interaction model with dendritic cell therapy and immune response delay. *SIAM Journal on Applied Mathematics*, 83(5):1892–1914, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1533979`.

Li:2023:RME

[409] Jialei Li, Xiaodong Liu, and Qingxiang Shi. Reconstruction of multiscale elastic sources from multifrequency sparse far field patterns. *SIAM Journal on Applied Mathematics*, 83(5):1915–1934, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1544257`.

Dipierro:2023:ALF

[410] Serena Dipierro, Giovanni Giacomin, and Enrico Valdinoci. Analysis of the Lévy flight foraging hypothesis in $\mathbf{R}^n$ and unreliability of the most rewarding strategies. *SIAM Journal on Applied Mathematics*, 83(5):1935–1968, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1526563`.

Parkinson:2023:ARD

[411] Christian Parkinson and Weinan Wang. Analysis of a reaction-diffusion SIR epidemic model with noncompliant behavior. *SIAM Journal on Applied Mathematics*, 83(5):1969–2002, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1556691`.

Meng:2023:DDB

[412] Shixu Meng. Data-driven basis for reconstructing the contrast in inverse scattering: Picard criterion, regularity, regularization, and stability. *SIAM Journal*

on Applied Mathematics, 83(5):2003–2026, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/23M1545409.

Cebra:2023:SSC

[413] Christopher Cebra and Alexander Strang. Similarity suppresses cyclicity: Why similar competitors form hierarchies. *SIAM Journal on Applied Mathematics*, 83(5):2027–2051, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1503099.

Piu:2023:DSA

[414] Matteo Piu, Michael Herty, and Gabriella Puppo. Derivation and stability analysis of a macroscopic multilane model for traffic flow. *SIAM Journal on Applied Mathematics*, 83(5):2052–2072, ???? 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1543288.

Wu:2023:RIB

[415] Chengyu Wu and Jiaqing Yang. Reconstruction of an interface between the fluid and piezoelectric solid by acoustic measurements. *SIAM Journal on Applied Mathematics*, 83(5):2073–2095, October 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Painter:2023:PSC

[416] Kevin J. Painter and Michael Winkler. Phenotype switching in chemotaxis aggregation models controls the spontaneous emergence of large densities. *SIAM Journal on Applied Mathematics*, 83(5):2096–2117, October 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kent:2023:HMF

[417] A. Kent, S. L. Waters, J. Oliver, and S. J. Chapman. A homogenized model of fluid-string interaction. *SIAM Journal on Applied Mathematics*, 83(5):2118–2143, October 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Nguyen:2023:MMG

[418] Tung D. Nguyen, Yixiang Wu, Amy Veprauskas, Tingting Tang, Ying Zhou, Charlotte Beckford, Brian Chau, Xiaoyun Chen, Behzad Djafari Rouhani, Yuerong Wu, Yang Yang, and Zhisheng Shuai. Maximizing metapopulation growth rate and biomass in stream networks. *SIAM Journal on Applied Mathematics*, 83(6):2145–2168, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Medynets:2023:SCS

[419] Constantine Medynets and Irina Popovici. On spatial cohesiveness of second-order self-propelled swarming systems. *SIAM Journal on Applied Mathematics*, 83(6):2169–2188, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Bisiacco:2023:SMT

[420] Mauro Bisiacco and Gianluigi Pillonetto. Sliding-mode theory under feedback constraints and the problem of epidemic control. *SIAM Journal on Applied Mathematics*, 83(6):

2189–2211, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Deng:2023:GDP

[421] Xiumei Deng, Qihua Huang, and Zhi-An Wang. Global dynamics and pattern formation in a diffusive population-toxicant model with negative toxicant-taxis. *SIAM Journal on Applied Mathematics*, 83(6):2212–2236, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Joshi:2023:PEL

[422] Badal Joshi and Gheorghe Craciun. Power-engine-load form for dynamic absolute concentration robustness. *SIAM Journal on Applied Mathematics*, 83 (6):2237–2259, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Joshi:2023:PMA

[423] Badal Joshi, Nidhi Kaihnsa, Tung D. Nguyen, and Anne Shiu. Prevalence of multistationarity and absolute concentration robustness in reaction networks. *SIAM Journal on Applied Mathematics*, 83(6):2260–2283, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Dalby:2023:MSN

[424] James Dalby, Yucen Han, Apala Majumdar, and Lidia Mrad. A multifaceted study of nematic order reconstruction in microfluidic channels. *SIAM Journal on Applied Mathematics*, 83 (6):2284–2309, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chu:2023:DDB

[425] Weiqi Chu and Mason A. Porter. A density description of a bounded-confidence model of opinion dynamics on hypergraphs. *SIAM Journal on Applied Mathematics*, 83(6):2310–2328, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

vonderGracht:2023:HCS

[426] Sören von der Gracht, Eddie Nijholt, and Bob Rink. Hypernetworks: Cluster synchronization is a higher-order effect. *SIAM Journal on Applied Mathematics*, 83(6):2329–2353, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Boudaoud:2023:MMA

[427] Arezki Boudaoud, Annamaria Kiss, and Mariya Ptashnyk. Multiscale modeling and analysis of growth of plant tissues. *SIAM Journal on Applied Mathematics*, 83(6):2354–2389, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ou:2023:HVP

[428] Miao jung Yvonne Ou and Silvia Jiménez Bolaños. Homogenization for a variational problem with a slip interface condition. *SIAM Journal on Applied Mathematics*, 83(6):2390–2417, November 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Borole:2023:NRC

[429] Piyush R. Borole, James M. Rosado, MeiRose Neal, and Gillian Queisser. Neuronal resilience and calcium signaling pathways in the context of synapse

loss and calcium leaks: a computational modeling study and implications for Alzheimer's disease. *SIAM Journal on Applied Mathematics*, 83 (6):2418–2442, December 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ammari:2023:DDN

[430] Habib Ammari, Erik Orvehed Hiltunen, and Thea Kosche. Design of defected non-Hermitian chains of resonator dimers for spatial and spatiotemporal localizations. *SIAM Journal on Applied Mathematics*, 83(6): 2443–2468, December 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Jiang:2023:SPE

[431] Yan Jiang, Hongyu Liu, Jiachuan Zhang, and Kai Zhang. Spectral patterns of elastic transmission eigenfunctions: Boundary localization, surface resonance, and stress concentration. *SIAM Journal on Applied Mathematics*, 83(6):2469–2498, December 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Hagstrm:2023:MAS

[432] Joar Zhou Hagström, Kim Pham, and Agnés Maurel. Modeling acoustic space-coiled metacrystals. *SIAM Journal on Applied Mathematics*, 83(6): 2499–2521, December 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chen:2023:ASS

[433] Xiaodan Chen and Renhao Cui. Analysis on a spatial SIS epidemic model with saturated incidence function in advective environments: I. conserved total population. *SIAM Journal on Applied Mathematics*, 83(6):2522–2544, December 2023. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Fischer:2024:ODS

[434] Michael Fischer, Laura Kanzler, and Christian Schmeiser. One-dimensional short-range nearest-neighbor interaction and its nonlinear diffusion limit. *SIAM Journal on Applied Mathematics*, 84 (1):1–18, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Maltez-Faria:2024:CFO

[435] Luiz Maltez-Faria, Carlos Pérez-Arancibia, and Catalin Turc. Combined field-only boundary integral equations for PEC electromagnetic scattering problem in spherical geometries. *SIAM Journal on Applied Mathematics*, 84(1):19–38, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Guilmeau:2024:MNS

[436] Thomas Guilmeau and Alain Rapaport. Multiplicity of neutrally stable periodic orbits with coexistence in the chemostat subject to periodic removal rate. *SIAM Journal on Applied Mathematics*, 84(1):39–59, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mulone:2024:NME

[437] Giuseppe Mulone. Nonlinear monotone energy stability of plane shear

flows: Joseph or Orr critical thresholds? *SIAM Journal on Applied Mathematics*, 84(1):60–74, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Niclas:2024:LSA

[438] Angéle Niclas and Laurent Seppecher. Layer stripping approach to reconstruct shape variations in waveguides using locally resonant frequencies. *SIAM Journal on Applied Mathematics*, 84 (1):75–96, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Klapper:2024:DDM

[439] Isaac Klapper, Daniel B. Szyld, Xinli Yu, Karsten Zengler, Tianyu Zhang, and Cristal Zúñiga. A domain decomposition method for solution of a PDE-constrained generalized Nash equilibrium model of biofilm community metabolism. *SIAM Journal on Applied Mathematics*, 84(1):97–113, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Feng:2024:TPS

[440] Tao Feng, Zhipeng Qiu, and Hao Wang. Tipping points in seed dispersal mutualism driven by environmental stochasticity. *SIAM Journal on Applied Mathematics*, 84(1):114–138, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Borsche:2024:HKD

[441] R. Borsche and A. Klar. A hierarchy of kinetic discrete-velocity models for traffic flow derived from a nonlocal prigogine–herman model. *SIAM Journal on Applied Mathematics*, 84 (1):139–164, January 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mejri:2024:ISE

[442] Bochra Mejri and Otmar Scherzer. An inversion scheme for elastic diffraction tomography based on mode separation. *SIAM Journal on Applied Mathematics*, 84(1):165–188, February 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

DOnofrio:2024:JPJ

[443] Giuseppe D'Onofrio, Pierre Patie, and Laura Sacerdote. Jacobi processes with jumps as neuronal models: a first passage time analysis. *SIAM Journal on Applied Mathematics*, 84 (1):189–214, February 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cai:2024:LRM

[444] Zhenning Cai, Manuel Torrilhon, and Siyao Yang. Linear regularized 13-moment equations with Onsager boundary conditions for general gas molecules. *SIAM Journal on Applied Mathematics*, 84(1):215–245, February 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Galkowski:2024:SPS

[445] Jeffrey Galkowski, Pierre Marchand, Jian Wang, and Maciej Zworski. The scattering phase: Seen at last. *SIAM Journal on Applied Mathematics*, 84 (1):246–261, February 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Liu:2024:MTM

[446] Hongyu Liu, Zhi-Qiang Miao, and Guang-Hui Zheng. A mathematical theory of microscale hydrodynamic cloaking and shielding by electro-osmosis. *SIAM Journal on Applied Mathematics*, 84(1):262–284, February 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Mukherjee:2024:HGU

[447] Arpan Mukherjee and Mourad Sini. Heat generation using Lorentzian nanoparticles. The full Maxwell system. *SIAM Journal on Applied Mathematics*, 84(1):285–315, February 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Nolan:2024:CRB

[448] John P. Nolan, Debra J. Audus, and Jack F. Douglas. Computation of Riesz α-capacity C_α of general sets in $\mathbf{R}^d$ using stable random walks. *SIAM Journal on Applied Mathematics*, 84(2):317–337, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhao:2024:SPL

[449] Shuangrui Zhao, Pei Yu, and Hongbin Wang. Spatiotemporal patterns in a Lengyel–Epstein model near a Turing–Hopf singular point. *SIAM Journal on Applied Mathematics*, 84(2):338–361, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ji:2024:CTF

[450] Hangjie Ji and Thomas P. Witelski. Coarsening of thin films with weak condensation. *SIAM Journal on Applied Mathematics*, 84(2):362–386, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Morandi:2024:OCP

[451] Omar Morandi, Nella Rotundo, Alfio Borzì, and Luigi Barletti. An optimal control problem for the Wigner equation. *SIAM Journal on Applied Mathematics*, 84(2):387–411, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Eller:2024:TCC

[452] Matthias Eller, Roland Griesmaier, and Andreas Rieder. Tangential cone condition for the full waveform forward operator in the viscoelastic regime: The nonlocal case. *SIAM Journal on Applied Mathematics*, 84(2):412–432, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Aleria:2024:FAA

[453] A. Aleria, A. Khan, and P. Bera. Finite amplitude analysis of Poiseuille flow in fluid overlying porous domain. *SIAM Journal on Applied Mathematics*, 84(2):433–463, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kisil:2024:GWH

[454] Anastasia V. Kisil. A generalization of the Wiener–Hopf method for an equation in two variables with three unknown functions. *SIAM Journal on Applied Mathematics*, 84(2):464–476, March 2024. CODEN SMJMAP. ISSN

0036-1399 (print), 1095-712X (electronic).

Meng:2024:SWG

[455] Y. Meng, D. T. Papageorgiou, and J.-M. Vanden-Broeck. Steady wind-generated gravity-capillary waves on viscous liquid film flows. *SIAM Journal on Applied Mathematics*, 84(2):477–496, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Friedrich:2024:CLN

[456] Jan Friedrich, Simone Göttlich, Alexander Keimer, and Lukas Pflug. Conservation laws with nonlocal velocity: The singular limit problem. *SIAM Journal on Applied Mathematics*, 84 (2):497–522, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gao:2024:SCG

[457] Tao Gao, Zhan Wang, and Demetrios Papageorgiou. Singularities of capillary-gravity waves on dielectric fluid under normal electric fields. *SIAM Journal on Applied Mathematics*, 84 (2):523–542, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kuznetsov:2024:TDS

[458] Nikolay Kuznetsov and Oleg Motygin. Two-dimensional sloshing: Domains with interior “High spots”. *SIAM Journal on Applied Mathematics*, 84 (2):543–555, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Wang:2024:NTW

[459] Zhenkun Wang and Hao Wang. Nontrivial traveling waves of phage-bacteria models in different media types. *SIAM Journal on Applied Mathematics*, 84 (2):556–580, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Fritis:2024:RPF

[460] Giulia C. Fritis, Pavel S. Paz, Luis F. Lozano, and Grigori Chapiro. On the Riemann problem for the foam displacement in porous media with linear adsorption. *SIAM Journal on Applied Mathematics*, 84(2):581–601, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kim:2024:CTM

[461] Hyunjoong Kim and Sean D. Lawley. Cover times of many diffusive or subdiffusive searchers. *SIAM Journal on Applied Mathematics*, 84 (2):602–620, March 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Schaeffer:2024:CRG

[462] David G. Schaeffer and Yuhao Hu. Constitutive relations for granular flow that include the three flow regimes of Chialvo et al. *SIAM Journal on Applied Mathematics*, 84(2):621–631, April 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

She:2024:DBN

[463] Gaoyang She and Fengqi Yi. Dynamics and bifurcations in a nondegenerate homogeneous diffusive SIR rabies

model. *SIAM Journal on Applied Mathematics*, 84(2):632–660, April 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kaklamanos:2024:GAS

[464] Panagiotis Kaklamanos, Andrea Pugliese, Mattia Sensi, and Sara Sottile. A geometric analysis of the SIRS model with secondary infections. *SIAM Journal on Applied Mathematics*, 84(2):661–686, April 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Li:2024:SIS

[465] Peijun Li and Ying Liang. Stability for inverse source problems of the stochastic Helmholtz equation with a white noise. *SIAM Journal on Applied Mathematics*, 84(2):687–709, April 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kaczvinszki:2024:MSF

[466] Markus Kaczvinszki and Stefan Braun. Moving singularities of the forced Fisher–KPP equation: an asymptotic approach. *SIAM Journal on Applied Mathematics*, 84(2):710–731, April 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Castellano:2024:MEE

[467] Keoni Castellano and Rachidi B. Salako. Multiplicity of endemic equilibria for a diffusive SIS epidemic model with mass-action. *SIAM Journal on Applied Mathematics*, 84(2):732–755, April 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Shi:2024:MNL

[468] Baoming Shi, Yucen Han, Apala Majumdar, and Lei Zhang. Multistability for nematic liquid crystals in cuboids with degenerate planar boundary conditions. *SIAM Journal on Applied Mathematics*, 84(2):756–781, April 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Wang:2024:SDF

[469] Tianxu Wang and Hao Wang. Stoichiometry-dependent fear effect in a food chain model. *SIAM Journal on Applied Mathematics*, 84(3):783–807, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Ingimarson:2024:LWS

[470] Benjamin Ingimarson and Robert L. Pego. On long waves and solitons in particle lattices with forces of infinite range. *SIAM Journal on Applied Mathematics*, 84(3):808–830, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Baldassari:2024:EWI

[471] L. Baldassari, M. V. de Hoop, E. Francini, and S. Vessella. Early-warning inverse source problem for the elasto-gravitational equations. *SIAM Journal on Applied Mathematics*, 84(3):831–855, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Cappanera:2024:ASN

[472] Loic Cappanera, Gabriela Jaramillo, and Cory Ward. Analysis and simulation of a nonlocal Gray–Scott model.

SIAM Journal on Applied Mathematics, 84(3):856–889, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kiselev:2024:PTP

[473] Alexander V. Kiselev and Kirill Ryadovkin. Phase transition in a periodic tubular structure. *SIAM Journal on Applied Mathematics*, 84(3):890–914, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kim:2024:FPS

[474] Hyunjoong Kim, Yoichiro Mori, and Joshua B. Plotkin. Finite population size effects on optimal communication for social foragers. *SIAM Journal on Applied Mathematics*, 84(3):915–939, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Holroyd:2024:LQR

[475] Oscar A. Holroyd, Radu Cimpeanu, and Susana N. Gomes. Linear quadratic regulation control for falling liquid films. *SIAM Journal on Applied Mathematics*, 84(3):940–960, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Shinglot:2024:FSP

[476] Vrushaly Shinglot and John Zweck. Floquet stability of periodically stationary pulses in a short-pulse fiber laser. *SIAM Journal on Applied Mathematics*, 84(3):961–987, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Shi:2024:LPL

[477] Qingyan Shi, Yongli Song, and Hao Wang. Local perception and learning mechanisms in resource-consumer dynamics. *SIAM Journal on Applied Mathematics*, 84(3):988–1010, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Kong:2024:MED

[478] Tianyu Kong, Diyi Liu, Mitchell Luskin, and Alexander B. Watson. Modeling of electronic dynamics in twisted bilayer graphene. *SIAM Journal on Applied Mathematics*, 84(3):1011–1038, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Lpez:2024:SCC

[479] Rafael López. Stability of a capillary circular cylinder between two parallel cylinders. *SIAM Journal on Applied Mathematics*, 84(3):1039–1059, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Zhang:2024:TBP

[480] Xue Zhang and Jianhong Wu. Tick-borne pathogen co-infection by co-feeding on incompetent hosts: Global convergence and impact of developmental delay. *SIAM Journal on Applied Mathematics*, 84(3):1060–1078, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Iyaniwura:2024:AAS

[481] Sarafa A. Iyaniwura and Zhiwei Peng. Asymptotic analysis and simulation of

mean first passage time for active Brownian particles in 1-D. *SIAM Journal on Applied Mathematics*, 84 (3):1079–1095, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Chu:2024:IIK

[482] Weiqi Chu, Qin Li, and Mason A. Porter. Inference of interaction kernels in mean-field models of opinion dynamics. *SIAM Journal on Applied Mathematics*, 84(3):1096–1115, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Miao:2024:GHS

[483] Borui Miao and Yi Zhu. Generalized honeycomb-structured materials in the subwavelength regime. *SIAM Journal on Applied Mathematics*, 84 (3):1116–1139, May 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Gomez:2024:FHT

[484] Daniel Gomez and Sean D. Lawley. First hitting time of a one-dimensional Lévy flight to small targets. *SIAM Journal on Applied Mathematics*, 84(3):1140–1162, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1586239`.

Li:2024:RPF

[485] Siqing Li, Leevan Ling, Steven J. Ruuth, and Xuemeng Wang. Realistic pattern formations on surfaces by adding arbitrary roughness. *SIAM Journal on Applied Mathematics*, 84(3):1163–1185, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1518001`.

Yariv:2024:LSF

[486] Ehud Yariv. Longitudinal shear flow over a superhydrophobic grating with partially invaded grooves and curved menisci. *SIAM Journal on Applied Mathematics*, 84(3):1186–1203, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1616522`.

Jia:2024:EPS

[487] Chen Jia, Hong Qian, and Michael Q. Zhang. Exact power spectrum in a minimal hybrid model of stochastic gene expression oscillations. *SIAM Journal on Applied Mathematics*, 84(3):1204–1226, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1560914`.

Carter:2024:SEA

[488] Paul Carter. A stabilizing effect of advection on planar interfaces in singularly perturbed reaction–diffusion equations. *SIAM Journal on Applied Mathematics*, 84(3):1227–1253, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1610872`.

Bianco:2024:ISS

[489] Simone Bianco and Jonathan E. Rubin. Introduction to the SIAP special section on the life sciences. *SIAM Journal on Applied Mathematics*, 84(3):Si–Sii, ???? 2024. CODEN SMJMAP. ISSN

0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/23M1606824.

Stadt:2024:CRE

[490] Melissa M. Stadt, Stephanie Abo, and Anita T. Layton. Circadian regulation of electrolyte and water transport in the rat kidney. *SIAM Journal on Applied Mathematics*, 84(3):S1 S16, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1480732.

Falco:2024:LCM

[491] C. Falcó, R. E. Baker, and J. A. Carrillo. A local continuum model of cell–cell adhesion. *SIAM Journal on Applied Mathematics*, 84(3):S17 S42, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506079.

Wang:2024:DBC

[492] Lisha Wang, Zhipeng Qiu, Takao Sasaki, and Yun Kang. Dynamical behavior of a colony migration system: Do colony size and quorum threshold affect collective decision? *SIAM Journal on Applied Mathematics*, 84(3):S43 S64, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1478690.

Garrish:2024:GPM

[493] Justin Garrish, Christine Chan, Douglas Nychka, and Cecilia Diniz Behn. A Gaussian process model for insulin secretion reconstruction with uncertainty quantification: Applications in cystic fibrosis. *SIAM Journal on Applied Mathematics*, 84(3):S65 S81, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506225.

Eisa:2024:AMO

[494] Sameh A. Eisa and Sameer Pokhrel. Analyzing and mimicking the optimized flight physics of soaring birds: a differential geometric control and extremum seeking system approach with real time implementation. *SIAM Journal on Applied Mathematics*, 84(3):S82 S104, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1505566.

Sta:2024:ASR

[495] Léa Sta, Michael F. Adamer, and Carmen Molina-París. Algebraic study of receptor–ligand systems: a dose–response analysis. *SIAM Journal on Applied Mathematics*, 84(3):S105 S150, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506262.

Welsh:2024:MPO

[496] Andrea J. Welsh and Bard Ermentrout. Mechanisms for producing oscillatory plane waves in discrete and continuum models. *SIAM Journal on Applied Mathematics*, 84(3):S151 S171, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506523.

Brennan:2024:RCN

[497] Georgia S. Brennan, Travis B. Thompson, Hadrien Oliveri, Marie E. Rognes, and Alain Goriely. The role of clearance in neurodegenerative diseases. *SIAM Journal on Applied Mathematics*, 84(3):S172 S198, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1487801`.

dOnofrio:2024:OEC

[498] Alberto d'Onofrio, Mimmo Iannelli, Piero Manfredi, and Gabriela Marinoschi. Optimal epidemic control by social distancing and vaccination of an infection structured by time since infection: The COVID-19 case study. *SIAM Journal on Applied Mathematics*, 84(3):S199 S224, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1499406`.

Patterson:2024:SDH

[499] Denis D. Patterson, A. Carla Staver, Simon A. Levin, and Jonathan D. Touboul. Spatial dynamics with heterogeneity. *SIAM Journal on Applied Mathematics*, 84(3):S225 S248, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1509850`.

Harris:2024:CPS

[500] Duane C. Harris, Changhan He, Mark C. Preul, Eric J. Kostelich, and Yang Kuang. Critical patch size of a two-population reaction diffusion model describing brain tumor growth. *SIAM Journal on Applied Mathematics*, 84(3):S249 S268, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1509631`.

Toste:2024:EDP

[501] Suney Toste and David Holcman. Extreme diffusion with point-sink Killing fields: Application to fast calcium signaling at synapses. *SIAM Journal on Applied Mathematics*, 84(3):S269 S296, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1476319`.

Trejo:2024:NIR

[502] Imelda Trejo, Yen Ting Lin, Amanda Patrick, and Nicolas Hengartner. Nonparametric inference for the reproductive rate in generalized compartmental models. *SIAM Journal on Applied Mathematics*, 84(3):S297 S315, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1505499`.

Juan:2024:PIS

[503] Lourdes Juan, Jackson Kulik, Katharine R. Long, Andrew Y. Morozov, and Jacob Slocum. Path integration and the structural sensitivity problem in partially specified biological models. *SIAM Journal on Applied Mathematics*, 84(3):S316 S335, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1499029`.

Wang:2024:DIM

[504] Xiunan Wang and Hao Wang. Dis-

crete inverse method for extracting disease transmission rates from accessible infection data. *SIAM Journal on Applied Mathematics*, 84(3):S336 S361, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1498796`.

Tenore:2024:MOP

[505] Alberto Tenore, Maria Rosaria Mattei, and Luigi Frunzo. Modelling oxygenic photogranules: Microbial ecology and process performance. *SIAM Journal on Applied Mathematics*, 84(3):S362 S391, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1483013`.

Vasquez:2024:AMP

[506] Váleri N. Vásquez and John M. Marshall. Applications of mathematical programming to genetic biocontrol. *SIAM Journal on Applied Mathematics*, 84(3):S392 S411, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1509862`.

Song:2024:RDP

[507] Weiting Song, Shikun Wang, Yuanshi Wang, and Donald DeAngelis. Resource-driven pattern formation in consumer-resource systems with asymmetric dispersal on a plane. *SIAM Journal on Applied Mathematics*, 84(3):S412 S428, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1506006`.

Conte:2024:NLK

[508] Martina Conte and Nadia Loy. A non-local kinetic model for cell migration: a study of the interplay between contact guidance and steric hindrance. *SIAM Journal on Applied Mathematics*, 84(3):S429 S451, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1506389`.

Kim:2024:WDA

[509] Dae Wook Kim, Minki P. Lee, and Daniel B. Forger. Wearable data assimilation to estimate the circadian phase. *SIAM Journal on Applied Mathematics*, 84(3):S452 S475, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1509680`.

Elam:2024:FSD

[510] Lachlan Elam, Mónica C. Quiñones-Frías, Ying Zhang, Avital A. Rodal, and Thomas G. Fai. Fast solver for diffusive transport times on dynamic intracellular networks. *SIAM Journal on Applied Mathematics*, 84(3):S476 S492, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1509308`.

Zhang:2024:DRT

[511] Wenjing Zhang and Leif A. Ellingson. Detecting and resetting tipping points to create more HIV post-treatment controllers with bifurcation and sensitivity analysis. *SIAM Journal on Applied Mathematics*, 84(3):S493 S514,

???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1485255.

Liu:2024:CPM

[512] Shuang Liu, Li-Tien Cheng, and Bo Li. Cell polarity and movement with reaction–diffusion and moving boundary: Rigorous model analysis and robust simulations. *SIAM Journal on Applied Mathematics*, 84(3):S515 S537, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506766.

Almonacid:2024:TDM

[513] Javier A. Almonacid, Sebastián A. Domínguez-Rivera, Ryan N. Konno, Nilima Nigam, Stephanie A. Ross, Cassidy Tam, and James M. Wakeling. A three-dimensional model of skeletal muscle tissues. *SIAM Journal on Applied Mathematics*, 84(3):S538 S566, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506985.

Yabo:2024:OBR

[514] Agustín Gabriel Yabo, Jean-Baptiste Caillau, and Jean-Luc Gouzé. Optimal bacterial resource allocation strategies in batch processing. *SIAM Journal on Applied Mathematics*, 84(3):S567 S591, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506328.

Cao:2024:CGM

[515] Haoyang Cao, Xin Guo, and Mathieu Laurière. Connecting GANs, mean-field games, and optimal transport. *SIAM Journal on Applied Mathematics*, 84(4):1255–1287, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1499534.

Sottile:2024:IRP

[516] Samuele Sottile. Inverse resonance problem for Love seismic surface waves. *SIAM Journal on Applied Mathematics*, 84(4):1288–1311, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/23M155877X.

Hou:2024:SDA

[517] Yanchuang Hou and Yuting Ding. Spatiotemporal dynamic analysis of delayed diffusive pine wilt disease model with nonlocal effect. *SIAM Journal on Applied Mathematics*, 84(4):1312–1336, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/23M1575305.

Sprenger:2024:WMT

[518] Patrick Sprenger, Mark A. Hoefer, and Boaz Ilan. Whitham modulation theory and two-phase instabilities for generalized nonlinear Schrödinger equations with full dispersion. *SIAM Journal on Applied Mathematics*, 84(4):1337–1361, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/23M1603078.

Deng:2024:IAA

[519] Youjun Deng, Hongyu Liu, and Yajuan Wang. Identifying active anomalies in a multilayered medium by passive measurement in EIT. *SIAM Journal on Applied Mathematics*, 84(4):1362–1384, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1599458`.

Hu:2024:DII

[520] Lei Hu, Xu-Dan Luo, and Zhan Wang. Diffraction and interaction of interfacial solitons in a two-layer fluid of great depth. *SIAM Journal on Applied Mathematics*, 84(4):1385–1412, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1572349`.

Keane:2024:AAS

[521] Laura M. Keane and Iain R. Moyles. An asymptotic analysis of space charge layers in a mathematical model of a solid electrolyte. *SIAM Journal on Applied Mathematics*, 84(4):1413–1438, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1580954`.

Dao:2024:VRM

[522] Tuan Anh Dao, Lukas Lundgren, and Murtazo Nazarov. Viscous regularization of the MHD equations. *SIAM Journal on Applied Mathematics*, 84(4):1439–1459, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1564274`.

Donges:2024:SMH

[523] Philipp Dönges, Thomas Götz, Nataliia Kruchinina, Tyll Krüger, Karol Niedzielewski, Viola Priesemann, and Moritz Schäfer. SIR model for households. *SIAM Journal on Applied Mathematics*, 84(4):1460–1481, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1556861`.

Shelton:2024:EAM

[524] Josh Shelton, S. Jonathan Chapman, and Philippe Trinh. Exponential asymptotics for a model problem of an equatorially trapped Rossby wave. *SIAM Journal on Applied Mathematics*, 84(4):1482–1503, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1552437`.

Dipierro:2024:SEB

[525] Serena Dipierro, Enrico Valdinoci, Glen Wheeler, and Valentina-Mira Wheeler. A simple but effective bushfire model: Analysis and real-time simulations. *SIAM Journal on Applied Mathematics*, 84(4):1504–1514, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1644596`.

Zhou:2024:ACS

[526] Shijie Zhou, Xiaoxiao Peng, Wei Lin, and Xuerong Mao. Adaptive control and synchronization of complex dynamical systems with various types of delays and stochastic disturbances. *SIAM Journal*

on Applied Mathematics, 84(4):1515–1531, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1639440`.

Dhia:2024:CSB

[527] Anne-Sophie Bonnet-Ben Dhia, Luiz M. Faria, and Carlos Pérez-Arancibia. A complex-scaled boundary integral equation for time-harmonic water waves. *SIAM Journal on Applied Mathematics*, 84(4):1532–1556, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1607866`.

Ma:2024:JIM

[528] Xiaoke Ma, Ying Su, and Xingfu Zou. Joint impact of maturation delay and fear effect on the population dynamics of a predator–prey system. *SIAM Journal on Applied Mathematics*, 84(4):1557–1579, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1596569`.

Parsons:2024:UAA

[529] Todd L. Parsons and David J. D. Earn. Uniform asymptotic approximations for the phase plane trajectories of the SIR model with vital dynamics. *SIAM Journal on Applied Mathematics*, 84(4):1580–1608, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1576050`.

Acosta:2024:PMU

[530] Sebastian Acosta, Jesse Chan, Raven Johnson, and Benjamin Palacios. Pseudodifferential models for ultrasound waves with fractional attenuation. *SIAM Journal on Applied Mathematics*, 84(4):1609–1630, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1634011`.

Nguyen:2024:SIF

[531] Dinh-Liem Nguyen and Trung Truong. A stable imaging functional for anisotropic periodic media in electromagnetic inverse scattering. *SIAM Journal on Applied Mathematics*, 84(4):1631–1657, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1577080`.

Dormy:2024:PBF

[532] Emmanuel Dormy and H. Keith Moffatt. Prandtl–Batchelor flow in a cylindrical domain. *SIAM Journal on Applied Mathematics*, 84(4):1658–1667, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/24M1637313`.

Gao:2024:ATD

[533] Shufei Gao, Sanling Yuan, Anglu Shen, and Hao Wang. Asymptotic and transient dynamics of a stoichiometric algal growth model with two-stage phosphate uptake. *SIAM Journal on Applied Mathematics*, 84(4):1668–1696, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1611750`.

Ammari:2024:SNH

[534] Habib Ammari, Silvio Barandun, Bryn Davies, Erik Orvehed Hiltunen, and Ping Liu. Stability of the non-Hermitian skin effect in one dimension. *SIAM Journal on Applied Mathematics*, 84(4):1697–1717, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1610537`.

Hyvonen:2024:BED

[535] N. Hyvönen, A. Jääskeläinen, R. Maity, and A. Vavilov. Bayesian experimental design for head imaging by electrical impedance tomography. *SIAM Journal on Applied Mathematics*, 84(4):1718–1741, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1624634`.

Lam:2024:GDR

[536] King-Yeung Lam, Xiao-Qiang Zhao, and Min Zhu. Global dynamics of reaction–diffusion systems with a time-varying domain. *SIAM Journal on Applied Mathematics*, 84(4):1742–1765, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1582990`.

Calderer:2024:NSV

[537] Maria Carme Calderer, Duvan Henao, Manuel A. Sánchez, Ronald A. Siegel, and Sichen Song. A numerical scheme and validation of the asymptotic energy release rate formula for a 2D gel thin-film debonding problem. *SIAM Journal on Applied Mathematics*, 84(4):1766–1791, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1579042`.

Monsalve:2024:JCB

[538] Eduardo Monsalve, Kim Pham, and Agnès Maurel. Jump conditions for Boussinesq equations due to an abrupt depth transition. *SIAM Journal on Applied Mathematics*, 84(4):1792–1817, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1602437`.

Negron-Marrero:2024:RPN

[539] Pablo V. Negrón-Marrero and Jeyabal Sivaloganathan. The repulsion property in nonlinear elasticity and a numerical scheme to circumvent it. *SIAM Journal on Applied Mathematics*, 84(4):1818–1844, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1583144`.

Casanellas:2024:NAA

[540] Marta Casanellas, Roser Homs, and Angélica Torres. A novel algebraic approach to time-reversible evolutionary models. *SIAM Journal on Applied Mathematics*, 84(4):1845–1867, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL `https://epubs.siam.org/doi/10.1137/23M1605302`.

Zou:2024:ISF

[541] Sen Zou, Shuai Lu, and Boxi Xu. Increasing stability of the first order linearized inverse Schrödinger potential problem with integer power type nonlinearities. *SIAM Journal on

Applied Mathematics, 84(4):1868–1889, ???? 2024. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic). URL https://epubs.siam.org/doi/10.1137/22M1542817.