A Bibliography of Publications of Frank E. Harris

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 5254
FAX: +1 801 581 4148
E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org, beebe@ieee.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

20 February 2018
Version 1.18

Abstract
This bibliography records publications of Frank E. Harris.

Title word cross-reference

+ [133], 1 [218, 219], $\textit{\$14.50}$ [46]. $\textit{\$20.00}$ [20]. $3 + 1^1$ [382]. = [194]. + [72, 362]. $\ddot{\alpha}$ [121]. $\dot{\alpha}$ [87, 133, 59]. $\ddot{\alpha}$ [97, 98]. $\dddot{\alpha}$ [370]. $\dddot{\alpha}$ [109]. $\dddot{\alpha}$ [55]. $\dddot{\alpha}$ [57] [141, 160]. $\dddot{\alpha}$ [155]. 19 [155]. 2 [40, 100, 191, 168, 96, 55]. $\dddot{\alpha}$ [370]. 3 [62, 86, 177, 141]. 4 [362, 161]. 5 [121]. 5 [177]. 60 [286]. $\dddot{\alpha}$ [362]. $\dddot{\alpha}$ [238]. x [193]. $\min [349, 352, 229]$. $\min [182, 161]$. $\min [349, 352, 229]$. $\dddot{\alpha}$ [58, 65, 66].
d $= 2 + 1$ [404]. Ei(x) [41]. G [177]. L [94]. n [9]. p [368]. $r_{12}^{-2}$ [239]. S [94]. $S = 1/2$ [198].


acceleration [164]. Access [154]. Accounts [431]. Accurate
Affinities [113]. Affinity [93]. Algebraic
Alternating [34]. alternative [192]. American [410]. Amsterdam [409].
Analysis [312, 326, 234]. Analytic [205, 220, 221, 346, 235, 354, 355].
Andrew [46]. Angles [370]. Angular
ant [184]. antiferromagnets [198]. Application
Approach [371, 75, 144, 206, 81]. approaches [232]. Approximate
Approximations [138, 228, 284, 70, 222, 131]. April [407]. Aqueous
Atom [127, 279, 271, 379, 81, 291, 102]. Atomic Centered [271]. Atomic
[408, 117, 140, 260, 332, 343, 89, 428, 381, 92, 95, 112, 409, 213, 118, 125, 126,
[140, 126]. Atoms [170, 371, 401, 113, 276, 336, 85]. Attractive [123].
August [421]. Auxiliary [188, 349, 352, 229, 238].

B [20, 329, 238, 434, 92, 112]. BaFe [155]. Balanced [131]. Band
Bases [378, 90]. Basis [402, 403, 193, 299, 302, 330, 247, 201, 386]. Behavior
[300, 301, 304]. Belgium [431]. Berkeley [365]. Beryllium [397]. Bessel
294, 328, 332, 342, 356, 357, 357, 231, 243, 244, 246, 255, 265, 296, 187]. Bond
[393, 44, 47, 58, 65]. Bonded [64, 58, 65, 66, 74]. bonding [91]. Bonds [66].
Boulder [413]. bound [231]. Br [194]. Branched [26]. Branching
Brillouin-Zone [388]. Buckminster fullerene [199, 276]. butanol [9].
Butyric [3].

C [286, 20, 92, 112]. C60 [225]. Calculated [157]. Calculation
[331, 372, 44, 206, 263, 300, 107, 387, 93, 123, 68, 174, 180, 137].
Calculations [38, 99, 117, 130, 138, 140, 144, 152, 154, 89, 120, 156, 96,
169, 190, 192, 219, 213, 214, 102, 126, 162, 181, 231, 131, 270, 191, 110].
Carboxylic [6, 17]. Career [280]. Carlo [28]. Center
Chain [170, 11, 12, 26, 29, 18, 34, 169, 193, 25]. chainlike [193].
Characteristic [389]. characterization [302]. charge
[359, 214, 410, 425, 132, 428, 426, 382, 190, 192, 424, 412, 425].
Computations [43]. Computer [208, 212]. Computing
[409, 410, 425, 424, 426, 413, 421, 418, 132]. Configuration
[28, 86, 89, 82, 80, 100, 85, 110]. configuration-interaction [80, 100, 85].
Configurations [45, 54]. Confined [370, 300, 301, 303, 304]. Conjugated
[393, 385, 389]. Consistent [84, 106]. Constant [13, 14, 9]. constants [103].
Constraint [293, 297, 329]. Constraint-based [293, 297, 329].
Construction [139, 94]. Contact [377]. Containing [393, 385, 32, 149].
Contraction [184, 9]. Contributing [385]. Contributions [21, 32, 218].
Conventional [237]. Convergence [164]. Coordinates
[241, 247, 260, 261, 279, 294, 328, 342, 290, 255, 262, 266, 296, 336].

[289, 384, 33, 39, 376, 156, 264, 270, 35, 36]. exchange-correlation [270].
Expansions [227, 47, 216, 249]. experiment [27]. Experimental  
[157, 148, 149, 19]. Explicitly [261]. Exploring [362]. Exponential  
[357, 41, 231, 260, 227, 216, 244, 247, 356, 246]. exponential-basis [247]. Exponentially  
[241, 294, 342, 290, 296, 336]. Extended [396, 73, 190, 192, 200, 85, 90, 122].

First [113, 421, 85, 364, 112]. First-Order [113, 112]. first-row [85]. Fitted  
Fluids [368]. fluorine [160]. Fock  
[192, 193, 219, 213, 214, 331, 372, 83, 119, 125, 126, 130, 135, 140, 153, 174, 147, 386, 396, 400, 156, 301, 303, 304].
following [60]. force [270, 273]. Forces [268, 284, 274, 275, 285]. formalism  
[174]. Formation [19, 28, 26]. Forms [325]. formula [217]. Formulas  
[332, 299, 302, 330, 296]. forty [363]. forty-four [363]. Four  
[241, 245, 260, 281, 294, 328, 342, 372, 231, 244, 396, 353, 365].
Four-Body [241, 245, 260, 281, 294, 348, 332, 342, 231, 296]. four-electron  
[234, 335]. Fourier  
Fourier-representation [193]. Fourier-transform [186]. Fourteen [377].
Fragmentation [298, 226, 233]. Fragmentering [233]. Frank  
[347, 374, 360, 361, 373, 362, 363, 364, 433, 434, 365]. Free  
[260, 328, 336, 262, 266, 296]. Function


Methods

Methods

Microwave

Microscopy

Minimum

Mixtures

Model

Modern

Modified

Moment

Moments

Molecular

Molecular-Orbital

Molecular-Structure

Molecule

M turbulence

Muller

Mountains

MS

MS-X-Alpha

Multi

Multi-configurations

Multicenter

Multiple

Multiresolution

Multivalent

Mutation

Myoglobin

Myoglobin-CO

N

nanophysics

National

near

Needs

Negative

Neighboring

Negative

Neighborhood

Neon

Netherlands

Ni

Nils

Nine

Nitroaniline

Nitrogen

No

Noble

Nonspecific

Note

Notes

Nucleic

Number

Numbers

Odd

OH

Ohrn

Old

Olov

Order

Ordinary

Organic

Orientation

Origin

Overlap

Oxford

Packed

Pair

Paper

Parameter

Parameters

Part

Partial

Pauli

Pentacyanide

Per-Olov

Periodic


zero [131]. zero-differential-overlap [131]. Zn [191]. Zone [388, 221, 264].

References


REFERENCES


Harris:1954:DCLa


Harris:1954:DCLb


Harris:1954:DPA


Harris:1954:SMD


Harris:1954:TFS


Rice:1954:CMP


Cotton:1955:TCF


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


http://adsabs.harvard.edu/abs/1964Sci...146..649R; http://www.sciencemag.org/content/146/3644/649.


REFERENCES


H. Harvey Michels and Frank E. Harris. Valence configuration interaction calculations for atomic scattering. *International Journal of Quantum

Rein:1968:IEH


Rein:1968:MOS


Schaefer:1968:AHS


Schaefer:1968:CEA


Schaefer:1968:CUA


Schaefer:1968:ESA

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[132] F. A. Matsen, Harrison Shull, Peter Lykos, and Frank Harris. Computational support for theoretical chemistry: report of a conference held at the


REFERENCES


REFERENCES

National Academy of Sciences, Washington, DC, USA, 1974. ix + 79 pp. URL https://books.google.com/books?id=qTYrAAAAYAAJ. This is a sequel to an earlier report [132].


internationale sur les applications de l’effet Mössbauer, Corfu, Greece, September 13–17, 1976.

Harris:1977:CAT


Harris:1977:CCM


Harris:1977:IME


Harris:1977:SSM


Reschke:1977:ESP


Delhalle:1978:EST

[169] Joseph Delhalle, S. Delhalle, and Frank E. Harris. Evaluation of some trigonometric series occurring in infinite chain polymer calculations. *Inter-
REFERENCES


[179] Frank E. Harris. Diagrams and many-body perturbation theory. In Harris et al. [419], pages 336–393. Two volumes.


[182] Frank E. Harris. The x-α method. In Harris et al. [419], pages 293–302. Two volumes.
Harris:1981:CCM


Harris:1981:CTA


Harris:1981:M


Harris:1981:TFS


Monkhorst:1981:RSO


Harris:1982:AFS


Harris:1983:EGM


REFERENCES


REFERENCES


[207] Frank E. Harris. Algebraic reduction in discrete light-cone quantized electrodynamics using Maple V. Technical report, Department of Physics,
REFERENCES

University of Utah and Quantum Theory Project, Departments of Physics and Chemistry, University of Florida, Salt Lake City, UT 84112, USA and Gainesville, FL 32611, USA, November 1998. Submitted to Computer Physics Communications.


REFERENCES


REFERENCES


REFERENCES


Harris:2004:NMO


Harris:2004:SNT


Harris:2005:ASH


Harris:2005:CBR

[246] Frank E. Harris. Comment on “Exponential representation in the Coulomb three-body problem”. See [357]. Submitted [where??]. Was this paper dropped after the publication of the corrigendum [356]?, 2005.

Harris:2005:CEB


Harris:2005:CWL

REFERENCES

Session/DB.2. 2005 72nd Annual Meeting of the Southeastern Section of the APS Thursday Saturday, November 10–12, 2005; Gainesville, FL, USA.


Frank E. Harris. Recurrence relations for matrix elements of few-body correlated wave functions. International Journal of Quantum Chemistry,
Harris:2005:SIT


Trickey:2005:ADF


Fripiat:2006:FRM


Harris:2006:CSF


Harris:2006:DFB


REFERENCES


REFERENCES


REFERENCES

CODEN JMMOFK. ISSN 0948-5023 (print), 1610-2940 (electronic). See [358].

Harris:2007:CWL


Harris:2007:DCT


Harris:2007:HCW


Harris:2007:NYO


Karasiev:2007:RAD


Runge:2007:GSA

[American Physical Society, APS March Meeting, March 5–9, 2007],
page 21010. American Physical Society, Ridge, NY 11961, USA, March
Abstract #N21.010.

Taylor:2007:GMR

[285] DeCarlos E. Taylor, V. V. Karasiev, Keith Runge, Samuel B. Trickey, and
Frank E. Harris. Graded methods for rapid generation of quantum me-
chanical forces in molecular dynamics simulations. Computational Mate-
rials Science, 39(3):705–708, 2007. CODEN CMMSEM. ISSN 0927-
com/science/article/pii/S0927025606002734.

Albert:2008:SX

[286] Victor V. Albert, John R. Sabin, and Frank E. Harris. Simulations of
Xe@C_{60} collisions with graphitic films. International Journal of Quantum
Chemistry, 108(15):3010–3015, 2008. CODEN IJQCB2. ISSN 0020-
7608 (print), 1097-461X (electronic).

Harris:2008:IBG

[287] Frank E. Harris. Incomplete Bessel, generalized incomplete gamma, or
leaky aquifer functions. Journal of Computational and Applied Mathemat-
ics, 215(1):260–269, 2008. CODEN JCAMDI. ISSN 0377-0427 (print),
article/pii/S0377042707002014.

Pinchon:2008:NEL

[288] Didier Pinchon, Philip E. Hoggan, and Frank E. Harris. A new expansion
of the leaky aquifer function. International Journal of Quantum Chem-
(print), 1097-461X (electronic).

Trickey:2008:OFK

[289] Samuel B. Trickey, V. V. Karasiev, R. S. Jones, and Frank E. Harris.
Orbital-free kinetic energy density functionals of GGA type with positive-
definite, finite Pauli potentials. In APS Meeting Abstracts: [American
Physical Society, 2008 APS March Meeting, March 10–14, 2008],
page 13010. American Physical Society, Ridge, NY 11961, USA, March
Abstract #L13.010.


REFERENCES


REFERENCES


Sjostrom:2012:CFT


Sjostrom:2012:TDB


Arfk:2013:AM


Arfk:2013:BF


Arfk:2013:CV

REFERENCES


Arfken:2013:CVT


Arfken:2013:DM


Arfken:2013:EP


Arfken:2013:FS


Arfken:2013:FTA


Arfken:2013:GFa


Arfken:2013:GFb


Arfken:2013:GF


Arfken:2013:GT


Arfken:2013:IE


Arfken:2013:IT


Arfken:2013:LF


Arfken:2013:VA


Arfken:2013:VS


Harris:2013:FCW


Karasiev:2013:EPC


Fripiat:2014:ETF


Fripiat:2014:FSR

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Frolov:2004:CBR


Frolov:2004:ERC


Safouhi:2006:NTT


Bolcer:2007:DCC


Anonymous:2009:FHL

REFERENCES

Anonymous:2009:SPA


Maiti:2009:DDF


Monkhorst:2009:MAF


Sabin:2009:FHF


Taylor:2009:FHB


Trickey:2009:CKS


Cabrera-Trujillo:2015:P

REFERENCES


REFERENCES


[386] Lalit Kumar, Hendrik J. Monkhorst, and Jens Oddershede. Electronic-structure studies of solids. V. Rigorous Hartree–Fock treatment of metallic
REFERENCES


REFERENCES


REFERENCES


P. Phariseau and L. Scheire, editors. *Electrons in Finite and Infinite Structures*, volume 24 of *NATO Advanced Study Institutes Series: Se-
REFERENCES


REFERENCES


REFERENCES

