A Bibliography of Publications of Per-Olov Löwdin

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 (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

04 February 2019
Version 2.56

Abstract
This bibliography records publications of the late Per-Olov Löwdin.

Dedication
This bibliography is dedicated in fond memory of, and to, Per-Olov Löwdin (28 October 1916 – 6 October 2000): advisor, alpinist, friend, host, leader, linear algebraist, mentor, musician, role model, scientist, and teacher of a great many of us in his extended scientific family.

Title word cross-reference

$14.50$ [Kut67b].  $17.00$ [Kön68].  $18$ [HL59, HL65].  $2$ [RG76, SW92, TL81].  $22$ [Kle66b].  $225.00$ [Boy05].  $27$ [Löw69c].  $450.00$ [Boy04].  $67.50$ [Ahl83].  $-1$ [MY04].  $^1\Sigma_g^+$ [HL76].  $3$ [MY04, VB75].  $\alpha$
\[ J = (1/2)(E_{\text{singlet}} - E_{\text{triplet}}) \]
[BC04, L"ow64f, L"ow66e, L"ow67d, L"ow77a, L"ow77b, L"ow78e, L"ow82d, L"ow92k, L"ow92i, L"ow92a, L"owxxb, L"owxxa, SW92, Jon92, L"ow81b]. **algebras** [WS92]. **algorithm** [Sch77]. **Alkali** [L"ow51e, LCH72, L"ow48e]. **Alkenes** [TTK04]. **Alkyl** [CPR04]. **Allen** [Sce06]. **Alpha** [Jon88, JW89, Ant85, De 76, Duf71, JW78, Jon91, MC09, MC11a, MC11b, ST05, Suz84a, Suz84b, Suz85, Suz87, Suz90, Suz92]. **Alpha-Function** [JW89, Jon91, ST05, Suz84a, Suz84b]. **Alpha-Functions** [Jon88]. **alpha-radial** [MC09]. **Alternant** [LCLL73, L"ow54b, PdHL62a, PdHL62b]. **alternatives** [SM13]. **American** [L"ow76b, L"ow77f]. **American-Swedish** [L"ow76b]. **Aminopurine** [RG76]. **Analysis** [BJ76, G"O70, L"ow92l, BDMC06, CSHM04, Per12, dA12]. **Analytic** [Jon91, LA56, JBW87, MRH10]. **Analytical** [Jon88, Tul04]. **analyzed** [LAS99]. **Angular** [Har04, L"ow64d, Cro77, MK08, MK09]. **Annihilation** [Pan82b]. **Anniversary** [LGC78b, LGJLCB89]. **Announcement** [L"ow86b, L"ow88b, L"ow94b]. **Antone** [Suz87]. **any** [FMPM+14]. **Aperiodic** [L"ow62g, L"ow65h]. **Appendix** [SS04]. **Application** [Cha90, JH15, JW89, Ki69, L"ow53b, L"ow92q, L"ow93g, L"ow94f, L"ow95j, L"ow96f, L"ow97c, L"ow98b, L"ow99b, SL58b, Gra77, PdHL62b]. **Applications** [DFKS05, LBH04, L"ow51e, L"ow66e, L"ow67d, LCH72, L"ow92m, L"ow48e, May10, HL83, LFM89a, SL59]. **Approach** [Laz04, L"ow85g, Mor78, SW92, May02a, WS92]. **Approaches** [Lin04, L"ow59b, L"ow65j, L"ow07a, Mei03]. **Approximants** [CVV87]. **Approximate** [L"ow53a, L"ow85c, Mak81, Mez97]. **Approximation** [Dog77, LL68, LPLH63, WJ12, L"ow55c, L"ow88l]. **Approximations** [DDH75, L"ow68l, L"ow82e, L"ow85e]. **April** [LSZ84a, L"ow89f]. **Arbitrary** [Kat04]. **Argon** [LA56]. **Argon-Like** [LA56]. **Aromatic** [VBHG95]. **arranged** [L"ow63c, L"ow63d]. **Art** [L"ow86g]. **Artificial** [L"ow86l]. **Arvsanlagen** [L"ow65c]. **Aspects** [Heh76, L"ow58g, L"ow60c, L"ow62k, L"ow64j, L"ow64i, L"ow65h, L"ow68a, L"ow68b, L"ow68h, L"ow68i, L"ow69f, L"ow70d, L"ow75a, L"ow75g, L"ow76b, L"ow77g, L"ow80j, L"ow84, L"ow85g, L"ow86j, L"ow87b, L"ow87c, L"ow92r, L"ow92b, L"ow98c, L"owxxc, L"ow07b, L"ow07c, Car88, L"ow77f, L"ow88j, Meh75]. **Associated** [L"ow85d, L"ow88e, LFM89a, L"ow93h, TL81, TL82]. **Associations** [L"ow68d, L"ow81a]. **Asymptotic** [SPH14, LS51]. **Atom** [ABD04, BK76, L"ow81a, CSHM04]. **Atomic** [BKN91, CL62, FL57, G"O70, KSM87, KS88, Kor79, LBH04, L"ow50b, L"ow63c, L"ow63d, L"ow63g, L"ow65f, L"ow65g, L"ow67g, L"ow68g, L"ow69e, L"ow71f, L"ow71g, L"ow72d, L"ow73e, L"ow74e, L"ow75e, L"O76, L"O77, L"O78, L"O79, L"ow60c, L"O80, L"O81a, L"O81b, L"O83, L"O84a, L"O84, L"O85e, L"O85c, L"O85e, L"O86c, L"O86d, L"O892p, L"O892q, L"O894e, L"O895i, L"O896e, L"O897b, L"O898a, L"O898b, L"O898c, L"O899b, L"O9000, MRH10, Suz92]. **Atoms** [Fr676, HL65, Hof67, KD04b, L"ow58g, Sla76, Van76, CSHM04, HL59, LR59, L"ow66h]. **atoms-in-molecules** [CSHM04]. **att** [L"ow59c]. **attraction**
August [FH58, Löw58f, LGC78a, LGC78b, LCG82a, Löw89a]. Augusteine [LSZÖ9, Löw89f, Löw90k, Löw90j, Löw91q, Löw91p, Löw92p, Löw92q, LÖSZ93, Löw93g, Löw91g, Löw95j, Löw96e, Löw96f, Löw97b, Löw97c, LÖSZ98, Löw98b, LÖSZ99, Löw99b, LÖS00]. av [Löw91i]. Axioms [Löw82d]. Aziridines [JSBL04].

C [Hof67, Löw66d, Löw66h, VBHG95]. C-13 [VBHG95]. Calais [McL81, Löw96a]. Calcul [Löw58b]. Calculated [KSM87]. Calculating [Löw54c, Suz90]. Calculation [Har76, JP76, Löw47a, Löw51b, Löw51d, Löw51e, LPdH60, Löw65a, Löw65m, Löw66b, LL70, Löw85c, MK08, MK09, MC09, MČ10a, MC11b, MC12, TTK04, Löw48c, LS51, Löw66c, Löw69a, LL51, MC11a, Suz84a, Suz84b, Suz85, Suz90, Suz92, Löw53c, MČ10b]. Calculations [ABD04, BCA04, DDH75, Dog77, HL76, JSB04, LBH04, Löw54a, Löw62a, Löw80d, Löw80e, Löw86f, LN89, Löw91h, Mal04, MV81, Sla76, Löw62b, WW76]. Call [Löw88a, LZ91]. can [CSHM04]. Cancer [JL87, Löw62e, Löw62h, Löw77d]. Canonical [Har76, Mor78, JH15, NS04]. Carcinogenesis [Löw68h, Löw77h, Löw86c]. Case [Löw68d]. Cases [Löw92m]. catalysis [Löw78a]. Catalytic [TTK04]. Catalyzed [TTK04]. Causality [Löw61b]. Caused [Löw62e]. Causes [BKNS91]. Cavity [Tul04]. Cellular [Frö76, Sla76]. Center [JW89, Löw90k, Löw90j, Löw91q, Löw91p, Löw92p, Löw92q, MC11b, Jon84, Jon91, Löw53a, MK08, MK09, MC09, MČ10a, MČ10b, MC12]. centre [LL51]. Certain [JL87, LL51]. Chairman [Löw89d]. challenge [AK02, Sce06]. Change [Löw85d, Löw88e, LFM89a]. Changes [Löw56c]. Changing [Par03]. Character [Gos76]. characteristic [CD04]. Charge [ABD04, JBW87, MC09, MČ10a, MČ10b]. Charges [BKNS91, KSM87, KSS88, VBHG95, MRH10]. Chemical [Brä14, Dau76, HNLD63, Löw58c, Löw61b, LGCT78a, Löw86f, Löw94g, Nye93, Qua04, RS76b, Sch04, May02a]. Chemistry [AHL83, AN04, BK76, Ber04, BHO7, Bos83, Boy04, Boy05, BK04, CL78, COM89, Dav76, DFKS05, FH58, FL07, GS12, Gor84, Het00, Kle66b, Kle66a, Lar04, Löw57, Löw58f, Löw61b, Löw64c, LP64, Löw65b, Löw67a, Löw67e, Löw68c, Löw68i, Löw68l, Löw70a, Löw71a, Löw72b, Löw73a, Löw74a, Löw75c, Löw76a, Löw76c, Löw76d, Löw77c, Löw77d, Löw78a, LC78, Löw80b, Löw80f, Löw80a, Löw80j, Löw81c, Löw81d, Lö81a, Lö81b, Lö82a, Lö82b, Lö82c, LÖM83, Löw83e, LS84a, LZS84, Löw85b, LÖSZ5c, Löw85a, LÖSZ86e, LÖSZ86c, Löw86g, LÖSZ87c, Löw87c, LS88, Löw88c, Löw88h, LÖSZ88a, Löw88i, LS89, Löw89a, LSZ89, Löw89d, Löw89g, Löw89h, LSZT90, Löw90b, Löw90c, Löw90e, Löw90g, Löw90k, LSZ91, Löw91d, Löw91i, Löw91q, Löw91r, LSZ92a, LSZ92b, Löw92e, Löw92c, LZ92, Löw92l, Löw93c]. Chemistry [Löw93d, LS94, Löw94a, LZ94, LS95, Löw95a, Löw95c, LSZ96, Löw96b, LSZ+97b, LSZ+97a, LSZ+98c, LSZ+98d, LSZ+98b, LSZB99, LSZ+99b, LSZ+99a, LSZ+00, LSZB00, Mal04, MCL81, ML83b, Nye93, Öö83,
Löw90i, Löw90k, Löw90j, Löw91q, Löw91p, Löw92p, Löw92q]. conferences
configuration [JH15]. configuration-interaction [JH15].
Configurational [Löw87a, Löw55b]. Configurations
[SL55, SL58b, SL59, AK02, LR59]. Conformation [Lad76]. Congress
[Ahl83, Löw80a, LP83, Löw89a, Löw89d, Löw91c, PL83]. Conjugated
[Löw53b]. Connected [Löw50b, Löw59a]. Connection
[Löw63g, Löw85e, Löw95g, Löw96g, Löw99a, Löw65j]. Conqueror [Ohn76].
Consciousness [Löw86j]. Consistency [Löw80i]. Consistent
[Löw51a, LA56, Löw60c, Löw62k, Löw53c, Löw54d, Löw54e]. Constant
[JP76]. Constants
[LL72, Löw47a, Löw62f, Löw68k, LG71, Löw48c, Löw48d, Löw48e].
Constructed [Löw64d]. Construction
[ACL73, Mak81, VB75, Pan82a, Pan82b, Pan83, Pan84]. Contact [Löw64b].
Containing [BCA04, CL62]. Continuum [Löw85c, SL55]. Contraction
[Löw64m]. Contributed [Löw80a]. Contributions
[Löw47b, Löw48b, Löw49, Löw50a, Löw88a, Lz91]. Conventional [BK76].
Convergence [Löw87a, Löw90b, Löw55b]. Convolution [Löw66c, Löw67d].
Coordinate [Las76, MK08, MK09, MC09, MÇ10a, MÇ10b]. corrected
[Mei03]. Correlated [Har04]. Correlation [GÖL70, Hal76, LB76, Löw55a,
Löw56a, Löw59b, Löw68a, Löw88b, Löw71d, Löw72f, Löw72g, Löw75b,
Löw95b, Löw07a, Löw07c, SL56, GLA+08, Löw55d, LR59, Löw62d].
Correlations [Lun76]. Correspondence [FH58]. Cosmic [Löw78c].
Coulombic [Löw90c, Löw90i]. Coulson [SPH14, Bou05, BS06].
Coulson/Löwdin [Bou05, BS06]. Coupled [Mal04, Uzi04].
Coupled-Cluster [Mal04]. Coupling [Ber04, JP76, Kil69, Löw64b].
Covalent [Löw58c, Kry02]. creation [Pan82b]. Crick [Baj75]. criterion
[LCK76]. Crystalline [VB75]. Crystals
[ACL73, Ber76, Cal76, FL62, Löw47a, Löw48a, Löw50b, Löw51d, Löw51e,
Löw62a, Löw71d, Löw72f, Löw72g, Löw48c, Löw48d, Löw48e, Löw53a].
Cubic [MV81]. Cure [Kry02]. Current
[CL78, Löw59b, Löw77b, Löw91r, Löw94g, Löw07a, Per12, dA12].
curriculum [Ano02]. Cycle [TTK04]. Cyclic [LPdH60, PdHL62b].

D [Ahl83, VB75]. dans [LS54]. Dedicated
[Löw65f, Löw65g, LGB89, OS02]. Deduced [JP76]. Defects [Cal76].
Definition [Löw91j, Löw91i, Löw86e, Sut02]. Definitionen [Löw91i].
Deformed [Van76]. Degeneracies [LG71]. Degeneracy
[Löw58h, LG68, LG69]. degenerate [Löw55d]. Del [LSZ+99a]. d’Energie
[LS54]. densities [Lev76]. Density
[CRE79, Cha90, CSHM04, CLS63, Dav76, ES87, JP76, KSM87, Löw63a,
LL70, LCG82b, Löw87a, Löw77b, LSZT90, LSZ+98b, Mez97, Pat62, GLA+08,
JBW87, Lev76, Löw55b, Löw86i, MC09, MÇ10a, MÇ10b]. Density-Matrices
Deoxyribonucleic [BS71a]. Dependent [BL69, Löw63b, Löw65i, Löw67b,
**Green’s** [Lin04]. **Green’s-Function** [Lin04]. **Ground** [HL76, Löw51d, LR59, Löw65l, Löw65k]. **Group** [Löw66e, Löw67d, LG68, LG69, Löw76c, PP76, Tch99, LCS+70, LGC78b]. **Grunder** [Löw91s]. **Guseinov** [MC10b, MK08, MK09, MC09, MC10a, MC11b, MC12].

**H** [Löw71g]. **Halides** [LCH72, Löw48e]. **Hamiltonian** [CD04, Löw85d, Löw55g, Löw88e, LFM89a, Löw89c, Löw90i, May02a, Uzi04]. **Hamiltonians** [Löw82c]. **Harald** [Löw69c]. **Harmoni** [Löw91s]. **Harmonilärans** [Löw91s]. **Harmony** [Löw91m, Löw91s]. **Hartree** [HL76, LPLH63, Van76, FL83, Löw55a, Löw55c, Löw55d, Löw58e, Löw60a, Löw63a, Löw66f, Löw66a, Löw66g, Löw69b, Löw75b, LCC81, LFM89a, LFM89b, LM92, ML93]. **Having** [Löw96g]. **HCN** [DDH75, Dog77]. **Heavy** [GL04, Mal04, Uzi04]. **Hebrew** [Löw89a]. **Held** [FH58, HDK72, Löw71f, Löw72d, Löw73e, LGC78b, Löw80a, Löw81a, LS81b, LÖ81b, LS82a, LO82a, LCG82a, LZ83a, LZ84, LÖSZ84c, LÖSZ85c, LÖSZ86c, LÖSZ86d, LÖSZ87c, LÖSZ87b, LÖSZ88d, LÖSZ88c, ML83b, ÖÖ83, Löw58f, Löw58g, Löw58h, Löw69e, Löw71g, Löw74e, Löw74f, Löw75e, Löw75f, LöT76, LÖT77, LGC78a, LS78, LÖT78, LÖT79, LS79, LS80, LÖ80a, LÖ81a, LS81a, LÖ82c, LS82b, LP83, LÖM83, LZ83c, LSZ84a, LSZ84b, LÖSZ85e, LÖ85, LÖSZ86e, LÖ86, LÖSZ87d, Löw88h, Löw88g, LÖSZ89, Löw89f, Löw90k, Löw90j, Löw91q, Löw91p, Löw92p, Löw92q, LÖSZ93, Löw93g, Löw94e, Löw94f, Löw95i, Löw95j, Löw96e, Löw96f, Löw97b, Löw97c, LÖSZ98, Löw98b, LÖSZ99, Löw99b, LÖ500, OSZL87, PL83]. **Helical** [Baj75]. **Helium** [LS55, SL56, LR59]. **Helium-Like** [SL56, LR59]. **Helmholtz** [CD04]. **hennes** [Löw74c]. **Henry** [Löw90e]. **Herausgegeben** [Kle66b, Kut67b]. **Herausgegeben** [May02a]. **Heterocyclics** [Löw51b]. **High** [LCH72, SPH14, Löw48e]. **Hilbert** [Lat76]. **Historic** [Löw85a, Löw85i]. **Historical** [Löw91k, Löw95b]. **History** [GS12, Löw87c]. **Homolytic** [CC04]. **Honor** [Löw63c, Löw63d, Löw76a, Löw91b, Löw92d, Löw67g, Löw69e, Löw71g, LÖT79, LS79, LÖSZ99a]. **Honorary** [Lin93]. **Honoring** [CG77]. **Honour** [Löw63g]. **Horizons** [Ahl83, LP83, PL83]. **Hubbard** [Lar04]. **Hulthen** [LS51]. **Human** [Löw77g, Löw80, Löw84]. **hybrid** [Tch99]. **Hydrido** [TTK04]. **Hydrido-Bridged** [TTK04]. **Hydrogen** [BK76, CC04, HL65, HL76, KSM87, LAS76, Löw66, Löw67k, Löw69f, RS76a, HL59]. **Hydrogen-Bonded** [KSM87]. **Hydrosilylation** [TTK04]. **Hylleraas** [Löw63c, Löw63d, Löw63g, MTW68, Löw69c]. **Hyperbola** [Pan03].

**ICQC** [Löw89d]. **Ideas** [Löw59b, Löw07a]. **Identity** [Par03]. **II** [Rel04b, Roo00, HM01b, Löw48d, Löw51e, Löw54d, Löw54e, Löw55c, Löw63a, Löw64k, LFM89a, LÖSZ98d, Löwxxa, ÖL83, ÖÖ83, OS02, Pan82b, PdHL62b, Suz85, WS82]. **III** [Boy05, BK04, Löw55d, LA56, Löw63a, Löw641, Pan83, Suz90]. **Illustrated**

J [Boy04, Boy05, Rei04a, Rei04b, Suz84a, Suz87]. Jahn [Ber04]. January [Löw63c, Löw63d, Löw63g, Löw65f, Löw65g, Löw67d, Löw67g, Löw69e, Löw71f, Löw71g, Löw72d, Löw73e, Löw74e, Löw74f, Löw75e, Löw75f, LÖ76, LS76, LÖ77, LS77]. Japan [Löw80a]. Jauch [Löw74b]. Jean [McL81, Löw96a]. Jerusalem [Löw89a]. John [ES87, Hof67, Löw66d, Löw67g, Löw69c, Löw87d, Löw66h, Löw71g]. Josef [Löw74b]. Josef-Maria [Löw74b]. Journal [Löw90e, Löw91d, Löw91e, Löw91f, Löw91g, Löw91r, Löw92e, Löw92c, Löw92g, Löw92h, Löw92f, Löw93c, Löw93d, Löw94e, Löw94a, Löw95e, Löw95a, Löw95c, Löw95f, Löw95d, Löw96b, Löw96c, SG14]. July [Löw58f, Löw91c]. June [Car88, LP83, Löw90i, PL83, LGBC89, LGJLCB89].

[Ahl83, Buc65, Gra65, Kle66b, Kle66a, Kön68, Kut67b, Lin03, MC11a, McL81, Rei04a, Roo00, Sch77, Sel65, Suz84a, FMPM+14, KKS67, AJA75, AEG80, AK02, AM12, Ano59, Ano02, Ant85, Bav75, BS71b, BKNS91, BM86, BS07, Bos83, Bou05, BS06, Brä76, BK04, Brä17, BDMC06, Bun17, CGLÖ76a, CGLÖ76b, CG77, COM89, CD04, Cha90, CVV87, CSHM04, Cro77, De 76, DDH75, Dog77, Duf71, FG76, FWMZ11, Gor84, GC84, GLA^08, Gra77, Hal04, HM01a, HM01b, Heh18, HL83, Ho67, Jan77, JH15, JW78, Jon84, JBW87, Jon88, JW89, Jon91, Jon92, KSM87, KS88, Kar02, KS73, KI69, Kor79, Kry02, Kut67a, LBH04, LCK76, LAS99, LD89, Lin93, LOBS02, Lin10, LÖBS17, Löz76a, Mak81, MK08, MK09, MC09, MÇ10a, MÇ10b]. Löwdin
[MC11b, MÇ12, Man76, MV81, May02a, May02b, May10, MRH10, Mei03, Mez97, Mor78, NSS12, NA12, NS04, Ohn76, ÖSB01, OS02, Pan82a, Pan82b, Pan83, Pan84, Par66, Per12, RSS08, SB02, SB17, Sc606, Sc609a, Sc703, SPH14, SG14, SW92, ST05, Ste97, Sty92, Suz84b, Suz75, Suz87, Suz90, Suz92, ST14, SM13, Tch99, VB75, VBHG95, WJ12, WW76, W81, W82, dA12, WS92, Boy04, Boy05, Rei04a, Rei04b]. Löwdin- [MÇ12]. Löwdin-alpha
[MC11a]. Löwdin's [SS17]. Lower [LL68, Löw65a, Löw65m, Löw66b, LL70, Rei76, Löw66c, Löw98a, Gra77, Löw65k, Löw65j]. Lying [MY04].

[Dau76, Lin04, Löw59b, Löw62i, Löw80c, Löw85d, LöSZ85e, LöSZ85c, LÖSZ86e, LÖSZ86c, Löw87a, Löw88e, LF89a, LF89b, Löw07a, Löw07d, Lun76, Mc76, Löw53a, Löw55b, Löw55c, Löw55d, Löw63i, LSZT90, Roo00]. Many-Body [Lin04, Löw80c, LÖSZ85c, LÖSZ86c, Mic76]. many-center
[Löz53a]. Many-Electron
[Dau76, Löw59b, Löw62i, Löw07a, Löw07d, Lun76]. many-fermion [LSZT90]. Many-Particle [Löz85d, Löw87a, Löw88e, LF89a, LF89b, Löw55b, Löw55c, Löw55d, Löw63i, Roo00]. March
Minimum [AJA75]. mixing [LAS99].


modified [JW78]. Moléculaire [Löw58b]. Molecular [DDH75, Dog77, Har76, Jon88, JW76, Kor79, LCLL73, Löw53b, Löw54a, Löw54b, Löw56a, Löw62e, Löw63c, Löw65g, Löw65f, Löw65g, Löw67g, Löw68d, Löw68g, Löw69g, Löw71f, Löw71a, Löw72d, Löw73e, Löw74e, Löw75e, Lö76, LÖ77, LÖ78, LÖ79, Löw60d, Löw60e, LÖ80, Löw81a, Lö81b, Löw83a, LöM83, Löw83e, Löw83d, LSZ84a, Lzs84, LÖSZ85e, LöSZ86e, LÖSZ86c, LszÖ89, Löw91b, Löw91j, Löw92p, LÖSZ93, Löw94e, Löw95i, Löw95k, Löw96e, Löw97b, LÖSZ98, Löw99a, LÖS99, LÖS00, Mic76, ML83b, ÖÖ83, Pdhl62a, Pdhl62b, FMPM+14, FWMZ11, JBW87, Löw62d, Löw68e, MK08, MK09, MC09, MÇ10a, MÇ10b, Tch99, Buc65, Gra65, Kle66b, Kle66a, Sel65].

Molecular-Orbital [DDH75, Dog77, Löw53b]. Molecule [HL76, JP76, Las76, Laz04, Löw65h, Löw67b, Löw68e, Sut02]. Molecules [BCA04, FHL55, Gos76, Hof67, KS88, KD04b, Löw50b, Löw51d, Löw51e, LFH55, Löw60b, Löw62h, Löw80i, Löw89c, Löw89b, Mak81, Mal04, Sla76, CSHM04, GLA+08, Löw53a, Löw66h, LL51]. Moments [Löw51b].

Momentum [KZ76, Löw64d, Löw73b, Cro77]. Monovalent [Löw66d]. Moral [Löw85h]. Motion [LL72, Löw62f, Löw68k, LG71, Löw85g, Löw91j].

Mott [Lar04]. Mountains [Ohn76]. MR [Suz87]. Mulliken [Löw65f, Löw65g, BKNS91, CSHM04, KS88, LP64, Kle66b, Kle66a].


N [MY04, MY04]. Nágot [Löw91s]. National [Löw47b, Löw48b, Löw49].


Niveaux [LS54]. NMR [VBHG95]. NMR-Spectra [VBHG95]. no [Suz87].

Nobel [Löw75e, Löw80c]. Non [Del76, Löw50b, Löw68e, Löw91k].

Non-Orthogonality [Del76, Löw50b, Löw68e, Löw91k]. Nonadditivity [MH04]. Noninteger [MC11b, MÇ12]. Nonmetallic [Löw62a].


Numbers
Numerical

O

Occurrence

Objectivity

Observations

Occasion

One-body

One-Center

ONIOM

Open

Opening

Operators

Optimal

Origin

Orthogonal

Orthogonalization

Orthonormal

Osäkerhetsrelationerna

Other

Overlap

P

Pages

Pair

Pairing

Palm

One

One-body

One-Center

ONIOM

Open

Opening

Operators

Optimal

Origin

Orthogonal

Orthogonalization

Orthonormal

Osäkerhetsrelationerna

Other

Overlap

P

Pages

Pair

Pairing

Palm
Polynomials [Rép76]. Ponce
[Löw90k, Löw90j, Löw91q, Löw92p, Löw92q, Löw95i, Löw95j, Löw96e, Löw96f, Löw97b, Löw97c, LÖSZ98, Löw98b, LÖSZ99, Löw99b, LÖS00].
Ponte [Löw94e, Löw94f]. Pople [Löw88a]. population
[BDMC06, CSHM04, Per12, dA12]. positive [Sco73]. Positrons [BCA04]. Possible
[Löw68a, Löw68b, Löw68h, Löw07c]. pot [LGC78b, McL81]. Potential
[BGC76, AM12]. Potentials [MY04]. Power [Sla76]. pp
[Boy04, Boy05]. PPM [WJ12]. Practice [LC78, Par03], praktik [LC78]. prediction [May02a]. Preface
[CG77, Lin93, Löw64h, Löw65e, Löw67f, Löw68f, Löw70c, Löw72c, Löw73d, Löw74d, Löw75d, Löw77e, Löw78d, Löw79, Löw80g, Löw80h, Löw81e, Löw81f, Löw82f, Löw82g, LCG82c, LCG83, Löw85f, Löw86h, Löw88f, LGB89, Löw89e, Löw91o, Löw92n, Löw92o, Löw94d, Löw95h, Löw96d, Löw81a, Löw89a]. Preis [Ahl83, Kön68]. Present
[And04, Löw57, Löw68i, Löw89d, Löw89b, Löw88j]. Press
[Kle66b, Kön68, Kut67b, Löw69c]. Pressure
[LCH72]. pressures [Löw48e]. Price
[Löw99c]. Principal [MC11b, MC12]. Principle
[LL72, Löw39]. Löw61b, Löw71b, LM72b, LM72a, Löw86d, LFM89a, Sce09a, LS51]. Principles
[Löw83e, LZ94, ZL94]. prizes [Löw78c]. Probability
[Per12, dA12]. Problem
[Dau76, Del76, Hal76, JW89, Löw58h, Löw59b, Löw59c, Löw59a, Löw62j, Löw67b, Löw67c, LG68, Löw68e, Löw68a, Löw68b, LG69, LL70, Löw70b, Löw80i, Löw83c, Löw87b, Löw91k, Löw95b, Löw97a, Löw07a, Löw07c, Löw07d, SL58b, SL59, SS04, Lev76, Löw50b, Pan84, Ste77]. Problems
[Löw54e, Löw64e, Löw65h, LÖSZ85e, LÖSZ85c, LÖSZ86e, LÖSZ86c, Löw87a, Löw91r, Löw92q, Löw93g, Löw94f, Löw94g, Löw95j, Löw96f, Löw97c, Löw98b, Löw99b, Löw07b, Löw54d, Löw55b]. Procedure
[Löw58d, Löw62c, Löw63h, LAS99, Sus85, WW76, Sus90, Sus92]. Procedures
[Del76, Löw93h]. Proceedings
[Ahl83, FH58, HDK72, Löw63c, Löw63d, Löw65f, Löw67g, Löw68g, Löw69e, Löw71f, Löw71g, Löw72d, Löw73e, Löw74e, Löw74f, Löw75e, Löw75f, LÖT6, LS76, LÖT7, LS77, LS78, LÖT7, LS79, LS80, LÖS0, LÖS1a, LÖS1a, LÖS2c, LS82b, LÖM83, LSZ85c, LSZ84a, LSZ84b, LÖSZ85e, LÖS5, LÖSZ86e, LÖS6, LÖSZ87d, Löw88g, LSÖ89, Löw89f, Löw90k, Löw90j, Löw91q, Löw91p, Löw92p, Löw92q, LÖSZ93, Löw93g, Löw94e, Löw94f, Löw95i, Löw95j, Löw96e, Löw96f, Löw97b, Löw97c, LÖSZ98, Löw98b, LÖSZ99, Löw99b, LÖSZ99, Löw99b, LÖS00, ÖSZL87, Car88, LGCC78a, LP83, PL83, ES87, Löw65g, Löw80a, Löw81a, LS81b, LS82a, LÖS2a, LCG82a, LZ83a, LZ84, LSZ84c, LÖSZ85c, LÖSZ85d, LÖSZ86c, LÖSZ86d, LÖSZ87c, LÖSZ87b, LÖSZ88d, LSZ88c, Löw89a, ML83b, Ö683, Kor79]. Process
[Löw70d]. Processes
[Löw73b, LÖSZ99a, LSZB00]. Product
[Löwxxa]. Prof
[Löw63g]. Professor
[Löw63c, Löw63d, Löw65f, Löw65g, Löw66d, LGJLCB89]. Program
[Löw67h, Löw90e, Löw91d, Löw91e, Löw91f, Löw92b, Löw92e, Löw93c, Löw93d, Löw91g, Löw92g, Löw92h, Löw94c, Löw95e, Löw95f, Löw96c]. Progress
[Löw62i, Löw95k]. Project
[Löw76b, Löw77f, Lin10]. Projected
[Löw66f, Löw66a, Löw66g, LCC81, Löw83b, Pau76, Löw69b, HL76, Van76].

**Projection**
[BL69, ČVV87, FL57, Kil69, Löw62f, Löw62j, Löw64d, VB75, Cro77, Mei03].

**Projections** [Ahl76, Löw68l, Löw71c, Löw70e, Löw88l].

**Projector** [TL81, TL82].

**Projectors** [Cha90].

**Projects** [Löw72e].

**Propagating** [LSZ99b].

**Propagator** [LO82c, Löw85g, MY04].

**Propagators** [Löw94h].

**Properties** [Frö76, HNL63, JL87, LL72, Löw48a, Löw63a, Löw66j, Löw67j, Löw67k, Löw68j, Löw71c, LG71, LFMS89b, Löw93f, Löw96g, Löw96h, Löwxxd, Pau76, RSS08, Löw48e, Löw56b, LCS90, Löw70e, Löw01].

**property** [De76].

**protein** [Per12, dA12].

**Proton** [Abd76, Cho76, KJL87, Löw62e, Löw63e, Löw64e, Löw64j, RS76a, Kry02].

**Pseudoquadrupole** [JP76].

**Psi** [Löw88k].

**Psyche** [Löw74c].

**psyke** [Löw74c].

**PT** [Sch04].

**Publications** [CGLÖ76a, Löw66i].

**Published** [Boy04, Boy05].

**Pullman** [Ahl83].

**QC** [Tch99].

**QC/MM** [Tch99].

**QED** [GL04].

**QM** [Luq04, MRH10].

**quadrature** [BS06].

**Quantization** [Mc76].

**Quantum** [Ahl83, BK76, Bos83, Boy04, Boy05, BK04, BCA04, CGLÖ76b, Cal76, CL78, COM89, Car88, Dav76, FHL55, FL58, FH58, FL07, GS12, Gor84, Het00, KDo4a, Kön68, Kut67b, Kut67a, Lar04, Löw47a, Löw51d, Löw51e, Löw55b, Löw55c, Löw55d, LFH55, LS56, Löw56b, Löw57, Löw58c, Löw58h, Löw58i, Löw59a, Löw60b, Löw61b, Löw62f, Löw62g, Löw62h, Löw62a, Löw62i, Löw63c, Löw63d, Löw63f, Löw63b, Löw63g, Löw64c, Löw64f, Löw64i, Löw65c, Löw65b, Löw65f, Löw65g, Löw65h, Löw65i, Löw66e, Löw67a, Löw67d, Löw67e, Löw67i, Löw68c, Löw68g, Löw68i, Löw68l, Löw69e, Löw70a, Löw70d, Löw71f, Löw71g, Löw71a, Löw72b, Löw72d, Löw72e, Löw72a, Löw73a, Löw73e, Löw74a, Löw74c, Löw74e, Löw74f, Löw75c, Löw75e, Löw76a, Löw76b, Löw76c, Löw76d, Löw76e, Löw77c, LS77, Löw77a, Löw77b, Löw78a, LS78].

**Quantum** [LGC78b, Löw78e, Löw79, LS79, Löw80b, Löw80f, Löw80a, LS80, Lö80, Löw80j, Löw81c, Löw81d, Löw81b, Lö81a, LS81a, LS81b, Lö81b, Löw82a, Löw82b, Löw82d, Lö82e, LS82b, LS82a, Löw83a, LÖM83, LZ83c, LZ83a, LSZ84a, LSZ84b, LSZ84, LSZ84c, Löw85b, LÖSZ85e, Lö85, LÖSZ85c, LÖSZ85d, Löw86a, Löw86d, Löw86f, LÖSZ86e, Lö86, LÖSZ86c, LÖSZ86d, Löw86g, Löw86j, LÖSZ87d, LÖSZ87c, LÖSZ87b, Löw87c, LSZ88, Löw88e, Löw88h, Löw88g, LÖSZ88d, LÖSZ88c, Löw88l, LSZ89, Löw89a, LSZ89, Löw89f, Löw89d, Löw89g, Löw89b, LN89, LSZT90, Löw90e, Löw90h, Löw90k, Löw90j, LSZ91, Löw91d, Löw91e, Löw91f, Löw91g, Löw91q, Löw91p, Löw91r, LSZ92a, LSZ92b, Löw92e, Löw92c, Löw92g, Löw92h, Löw92f, LZ92, Löw92l, Löw93c, Löw93d, Löw93e, LSZ94, Löw94c, Löw94a, LZ94, LSZ95, Löw95c, Löw95a, Löw95c, Löw95f].

**Quantum** [Löw95d, Löw95k, LSZ96, Löw96b, Löw96c, LSZ97b, LSZ97a, Löw97a, LSZ98c, LSZ98d, LSZ98b, Löw98a, LSZ99b, LSZ99, LSZ99a, Löw99a, Löwxxb, LSZ90, LSZB00, Löw01, Löw07a, Löw07b, Löw07d, Mal04,
MC11b, Mez97, ML83b, Öö83, ÖSZL87, Par03, Par09, PP76, Qua04, Rei04a, Rei04b, Roo00, SB02, SB17, Sco09a, SG14, SW92, ZL94, Brä17, LÖS02, Löw48c, Löw48d, Löw48e, Löw51c, Löw63i, LCS+ 70, Löw77f, LP83, Löw88j, Löw88l, LZ91, LSZ+98a, MÇ12, Par66, PL83, WS92, WS81, W882, Lin10, Löw76c, Löw77d, LC78, LGC78b, Löw87a, Hof67, McL81].

Quantum-Chemistry [Bos83, COM89, Gor84]. Quantum-Mechanical [Cal76, LÖW51d, LÖW51e, LÖW58c, LÖW86d, LÖW51c]. Quasi [MH04]. Quasi-Particle [MH04].

[LA56]. **Rule** [Ahl76, AK02]. **Russian** [KKS67].

S [Boy04, Boy05, Kle66b, Kle66a, Kut67b, LP64, Rei04a, Rei04b]. **Sanderson** [Löw65f, Löw65g]. **Sanibel** [Löw63c, Löw63d, Löw63g, Löw65f, Löw65g, Löw67g, Löw68g, Löw69e, Löw71f, Löw71g, Löw72d, Löw73e, Löw74e, Löw74f, Löw75e, Löw75f, LÖ76, LÖ77, LÖ77, Löw83b, Löw85i, Löw85a]. **Sasaki** [Ste77]. **Sawgrass** [Löw94e]. **Scale** [Löw87c]. **Scaling** [Löw59a, Löw85d, Löw86k, Löw88e, LFM89a]. **Scattering** [ABD04, Ber76, BGC76, LÖ85e, LÖ85c, LÖ86e, LÖ86c, HL83].

**SCF** [KSM87, Löw64g]. **Scheme** [FL83, Löw63a, LFM89a, LFM89b, Löw55d, Löw58e, NSS12]. **Schemes** [Löw66g, LCC81, RSS08, Löw60a]. **Schmidt** [NSS12]. **School** [Löw58f]. **Schrödinger** [BC04, Löw58d, Löw62c, Löw64l, Löw65j]. **Science** [Löw75a, Löw75g, Löw92r, CGLÖ76b, LSZ+00]. **Sciences** [Löw70d, Löw76b, Löw83a, Löw84, Löw86l, Löw92k, Löw92l, Löw95g, Löw97d, Löwxcc, Löw77f].

**Scientific** [Bun17, FG76, Het00, Lin10, Löw85a, Man76, MTW68, Ohn76, Par03, Jan77, Kar02, Löw69c, LGC78b, Löw85i, McL81]. **Scientists** [Löw85h]. **Sciten** [Kön68]. **SCRF** [Luq04]. **Search** [Löw92l]. **Second** [LL68, Löw91c]. **Second-Order** [LL68]. **Secular** [Löw64m, Löw67b, Löw67c]. **Selected** [MTW68, Sce09b, Löw69c]. **Self** [Löw51a, LA56, Löw60c, Löw62k, Löw53c, Löw54d, Löw54e, Sco73], **self-adjoint** [Sco73]. **Self-Consistent** [Löw51a, LA56, Löw60c, Löw62k, Löw53c, Löw54d, Löw54e]. **Semi** [Löw99a, LZ91]. **Semi-Empirical** [Löw99a, LZ91]. **Semiconductor** [MV81]. **Semiconductor** [LZ92]. **separability** [Löw61a]. **Separation** [Löw64b]. **September** [LGC78b]. **Series** [JSBL04, NA12, Sla76, JBW87]. **Set** [ACL73, BL69, KS88, Löw77b, Löwxxb, Löwxxa, Boy04, JH15, YE81].

**Sets** [Mak81, LC76]. **several** [SM13]. **Sham** [AM12]. **Shapiro** [WS92, SW92]. **Sharma** [JW78]. **Shell** [CGR94, Gos76, PdHL62a, GLA+08]. **Sheraton** [LO82a]. **Shielings** [Laz09]. **Shifts** [VBHG95]. **Short** [Löw76a].

**Silico** [And04]. **Similar** [Löw88i]. **Similarity** [Löw85d, Löw88e, LFM89a, Mez97]. **Simple** [BS07, CL62, LCC81, Suz84a, Suz84b, Suz85, Suz90, Suz92]. **Simplifications** [Löw54e]. **simplified** [CD04]. **sincere** [Meh75]. **Situation** [Löw57, Löw68i, Löw89d, Löw89b, Löw88j]. **Size** [Löw80i].

**Size-Consistency** [Löw80i]. **Slater** [Löw67g, MČ10b, AM12, Bon05, JH15, Jon88, JW89, Jon91, Löw53c, Löw66d, Löw66h, Löw83b, MK08, MK09, MC09, MČ10a, MČ12, Suz92, Hoff67].

**Slater-Type** [Jon88, JW89, JH15, Jon91, Suz92]. **Society** [Brä14, Löw97d, Löwxcc]. **Sodium** [Löw51e]. **Software** [FMPM+14]. **Solid** [HDK72, Hoff77, Kor79, Löw62g, Löw65h, Löw67g, Löw68g, Löw69e, Löw71f, Löw71g, Löw72d, Löw73e, Löw74e, Löw75e, LÖ76, LÖ77, LÖ77, LÖ79, LÖ80, LÖ81a, LÖ81b, LÖM83, LSZ84a, LZS84, LÖSZ85c, LÖSZ85d, LÖSZ85e, LÖSZ86c, LÖSZ86c, LÖSZ87c, Löw88h, LÖSZ88d, LSZÖ89, Löw90k, Löw91q, LZ92,
ML83b, Öö83, ÖSZL87, Löw62d, Löw66h, LZ91]. Solid-State
[Cor79, Löw67g, Löw68g, Löw69e, Löw71f, Löw71g, Löw72d, Löw73e, Löw74e, Löw75e, Lö76, Lö77, Lö78, Lö79, Lö80, Lö81a, Lö81b, LöM83, LSZ84a, LZ84, LÖSZ85e, LÖSZ85c, LÖSZ86c, LÖSZ86c, LÖSZ87c, Löw88h, LÖSZ88d, LSZÖ9, Löw90k, Löw91q, LZ92, ML83b, Öö83, ÖSZL87, Löw62d, LZ91].
Solids [FL62, Löw71a, LCH72, Sla76, Löw56b, LCS70, Löw01]. Solute [Luq04]. Solution [CC04, Lev76, Löw62j, Löw64l]. Solvay [Meh75]. Solved [Löw94g]. Solvent [Luq04]. Solving [Löw58d, Löw59c, Löw62c, Löw63h]. Some [ACL73, BS07, Cal76, JL87, KSM87, KS88, Kol76, Löw47a, Löw48a, Löw51b, Löw58g, Löw59b, Löw62i, Löw64i, Löw66j, Löw67j, Löw67k, Löw68a, Löw68b, Löw68h, Löw68i, Löw68j, Löw69f, Löw69g, Löw70d, Löw70e, Löw71b, Löw71c, LM72b, LM72a, Löw75a, Löw75g, Löw76b, Löw77f, Löw77g, Löw77h, Löw77b, Löw80j, Löw83e, Löw84, Löw85g, Löw85h, Löw86c, Löw86j, Löw86k, Löw86l, Löw87b, Löw87c, Löw88c, Löw88j, Löw88d, Löw89b, LFM89b, Löw89h, LN89, Löw91r, Löw92m, LM92, Löw93f, Löw93h, Löw94g, Löw94h, Löw95k, Löw96g, Löw96h, Löw97d, Löw98c, Löw98d, Löwxxc, Löwxbd, Löwxxa, Löw07a, Löw07b, Löw07c, Löw07d, ML93, Sut02, TL81, TL82, GLA+08, Löw48c, Löw48d, Löw48e, May10, Löw60c, Löw62k, Löw65h]. Something [Löw91s]. Son [Heh18]. Sorrento [Löw81a]. sostoiianakh [KKS67]. Space [BL69, KS76, Lat76, Uzi04]. Spaces [Löw96g, Löwxxa]. Spain [Car88]. Spanned [BL69]. Special [COM89, Löw85g, Löw92m, OS02, Suz85]. Specifics [Bun17]. Spectra [Löw54d, Löw58e, LFM89a, Löw95k, Löw99a, VBHG95]. Spectral [LBH04]. spectrally [WJ12]. Spectroscopies [Laz04]. spectroscopy [LSZ+00]. Spheres [Tul04]. Spherical [Frö76, Löw50a]. Spin [HL65, Kat04, Ki69, LS55, Löw58h, Löw64b, LG68, LG69, Löw83b, Löw87a, Löw92m, Löw96g, MY04, Pan76, SL58b, SL59, HL59, Lev76, Löw55b, Löw62d, Pan82a, Pan82b, Pan83, Pan84]. spin-adapted [Pan82a, Pan82b, Pan83, Pan84]. Spin-Orbit [Kil69, Löw64b]. Spin-Orbitals [HL65, LS55, Löw87a, HL59, Lev76, Löw55b]. Spin-Projected [Löw83b]. Spins [Kat04]. Splitting [SL56]. sponsored [LGC78b]. spontaneous [Kry02]. Square [Löw921, Sco73]. St [LSZÖ9, Löw89f, Löw90k, Löw90j, Löw91q, Löw91p, Löw92p, Löw92q, LöSZ93, Löw93g, Löw95i, Löw95j, Löw96e, Löw96f, Löw97b, Löw97c, LöSZ98, Löw98b, LÖSZ99, Löw99b, LÖS00]. Stability [Löw66j, Löw67k, Löw72a, Löw83c, Löw86d]. Stabilization [Löw85c]. State [FL57, HDK72, Ho67, Cor79, Löw51d, Löw51k, Löw67g, Löw68g, Löw69e, Löw71f, Löw71g, Löw72d, Löw73e, Löw74e, Löw75e, Lö76, Lö77, Lö78, Lö79, Lö80, Lö81a, Lö81b, LöM83, LSZ84a, LZ84, LÖSZ85e, LÖSZ85c, LÖSZ86c, LÖSZ86c, LÖSZ87c, Löw88h, LÖSZ88d, LSZÖ89, Löw89k, Löw91q, LZ92, ML83b, Öö83, ÖSZL87, Löw62d, Löw65l, Löw66h, LZ91]. statement [Brä14]. States [HL76, JP76, Kat04, Löw85c, Löw85d, Löw86k, Löw88e, LFM89a, HL83, KKS67, LR59, Löw65l, SL58a, BH07]. Static [Lun76]. Statistics [Löw74e, Löw75e, Lö76, Lö79, Lö80, Lö88c]. steepest
Structure

[COM9, CLS63, LBS04, Löw58, Löw60, Löw80, Löw80c, Löw89, Löw91, Mak81, MV81, PdHL62a, TTK04, CGLÖ76b, CD04, KK67, Löw66, Löw88, LSZ+97a, LSZ+99a, LSZB00, WW76].

Structures [Baj75]. struktura [KKS67]. Studies [KJL87, Löw53c, Löw54d, Löw54e, LA56, Löw60, Löw62, Löw63b, Löw65b, Löw65c, Löw66, Löw68, LG71, LM92, PdHL62a, PdHL62b, RS76b, WS81, WS82, SS04].


Summer [Löw58a]. Super [Löw67b, Löw67c]. Supercomputers [Löw87c].

Superconductivity [Lar04]. Superheavy [Mal04]. Superoperators [Löw82c]. Superposition [SL55, SL58b, SL59, LR59]. Supersymmetric [KDO4a]. Surface [ABD04, Löw81a, TUL04]. Surfaces [Löw90i, LGC78a].

Survey [Löw85a, Löw85j]. Sweden

[Boy05, FH58, Löw58f, LCG82a, LP83, PL83].

Swedish

[Löw39, Löw47b, Löw48b, Löw49, Löw58e, Löw59c, Löw65c, Löw74c, Löw76c, Löw76b, Löw77f, LC78, Löw91i, Löw91s].

Symbolic [CVV87].

Symmetric [LG68, LG69, LFM89b, May02b, Sch77]. symmetrical [NSS12].

Symmetry [De 76, Har04, KS76, Kat04, Löw66, Löw67o, Löw89, Qua04, RSS80, Pan83, LL72]. Symposia [Löw85i, Löw85a]. Symposium [ESS7, FHL55, HDK72, Kor79, Löw63c, Löw63d, Löw65f, Löw65g, Löw67g, Löw68g, Löw69e, Löw71f, Löw71g, Löw72d, Löw73e, Löw74e, Löw74f, Löw75e, Löw75f, Löw76a, Lö76, LS76, LÖ77, LS77, LS78, LÖ78, LÖ79, LST9, Löw80c, LS80, LÖ80, LÖ81a, LS81a, LS81b, LÖ81b, LÖ82c, LS82b, LS82a, LÖM83, LZ83c, LÖS83a, LSZ84a, LZS48, LSZ84c, LÖSZ85e, LÖ85, LÖSZ85c, LÖSZ85d, LÖSZ86e, LÖ86, LÖSZ86c, LÖSZ86d, LÖSZ87d, LÖSZ87e, LÖSZ87h, Löw88a, Löw88h, LÖSZ88d, LÖSZ88c, LSZ89, Löw89f, Löw90k, Löw90j, Löw91q, Löw91p, LZ92, Löw92p, Löw92q, LZ93, Löw93g, LZ94, Löw94e, Löw94f, Löw95i, Löw95j, Löw96c, Löw96f, Löw97b, Löw97c, LÖSZ98, Löw98b, LÖSZ99, Löw99b, LÖS00, ML83b, Ö83, ÖSZL87, ZL94, LGC78b, LZ91, LHH55].

Synpunkt [Löw65c]. System

[Löw91m, PdHL62a, Löw69g, MK08, MK09, MC09, MC10a, MC10b].

Systems [CPR04, Har04, KOL76, LS56, LPdH60, Löw62i, Löw87a, LN89, Löw91a, Löw91d, LUN76, MC76, PdHL62b, Löw55b, Löw55c, Löw55d, Löw63i, LSZT90, LÖSZ+98c, LÖSZ+98d, Roo00, Tch99, Löw80c].

T. [Löw50a]. Tab [Kle66b]. Table [Sch04, AK02, Sce99b]. Tame [Löw87d].

Tarfala [LGB82a]. Taylor [JBJW87]. Technique

[Baj75, BS07, Löw62f, Löw63b, Löw63h, Löw65a, Löw65i, Löw67i, Löw68k, Löw82e, Löw85c, Löw85c, MV81, Wei76, Löw69a, Mei03, WW76, WS81, WS82].
Techniques [L"ow65m, L"ow66b, L"ow66c]. tell [CSHM04]. Teller [Ber04].
Temperature [L"ow78c]. Tensor [MY04]. teori [LC78]. term [HM01b].
Terms [HL65, L"ow64b, HL59, NA12]. Test [BK76, LCLL73]. Thalberg
[L"ow69c]. Their [L"ow91i, L"ow91r, L"ow97d, L"owxxc, L"owxxa]. Theorem
[FL62, L"ow9a, L"ow6d, L"ow91n, Bon05, HM01a, HM01b, L"ow61a,
May10, SL58a]. Theorems [L"ow93h, L"ow60a]. Theoretical
[BS76, L"ow48a, LCH72, L"ow83e, L"ow83d, L"ow89h, L"ow94g, Nye93, BS71a, L"ow48e].
Theorems [L"ow60b, L"ow61a, L"ow91n, Bou05, HM01a, HM01b, L"ow61a,
May10, SL58a]. Theorems [L"ow93h, L"ow60a]. Theoretical
Löw72f, Löw72g, Tul04, JBW87, Löw48e, Löw51e, Löw68d, LG71]. **Trends** [CL78, Löw88e, Car88, LSZ+98a]. **Trial** [Löw86d]. **Tribute** [Boy04, Boy05, BK04, COM89, Ho87, Kle66b, Kle66a, LP64, Löw83a, Löw87d, Rei04a, Rei04b, CGL076b, Löw66b, LSZ+99b, SB02]. **Tromsø** [Löw90j]. **Trondheim** [Löw69c]. **Tumors** [Löw64e, Löw65h]. **Tumours** [Löw07b]. **Tunneling** [Löw63e, Löw64e, Löw65k, Kry02]. **Tunnelling** [Abd76]. **Twenty** [Löw85i]. **Twenty-Five** [Löw85i]. **Two** [Har76, HL65, Kol76, MC11b, HL59, Jon91, MK08, MK09, MC09, MC10a, MC10b, MC12, NA12, TL82, Tul04, WS92]. **Two-Center** [MC11b, Jon91, MK08, MK09, MC09, MC10a, MC10b, MC12]. **Two-Electron** [Kolo76, LS56, NA12]. **Type** [Baj75, Jon88, JW89, MC11b, Bou05, JH15, Jon91, MK08, MK09, MC09, MC10a, MC10b, MC12, Suz92].

u [Kle66b]. **Ukraine** [Boy05]. **Unbounded** [Löw85d, Löw88e, LFM89a]. **Uncertainty** [Löw91l]. **Understanding** [CPR04]. **Unified** [Laz04]. **Unitary** [Löw92m, Löw96g]. **United** [BH07]. **Universal** [Lev76, FWM11]. **Universitet** [Löw76c]. **University** [Boy04, Boy05, Löw63c, Löw63d, LGC78a, Löw88a, Löw88g, Löw89a, Löw76c, Löw76d, LGC78b]. **Unreachable** [Löw88k]. **Unsöld** [LL68]. **Updates** [FMPM+14]. **Upper** [LL68, Löw65a, Löw65j, Löw65m, Löw66b, Löw66c, Löw69a]. **Uppkomst** [Löw91s]. **Uppsala** [Boy04, Boy05, FHL55, LFG75, LGC78a, LP83, FL07, Löw54a, LCS+70, Löw72e, Löw76c, Löw76d, Löw76b, Löw77f, LGC78b, Red76]. **Uppsala-Florida** [Löw76c]. **Ur** [Löw65c]. **Use** [DDH75, Dog77, Löw50b, Löw68a, MC11a, MC11b, LR59, Löw88l]. **Used** [Löw51a, Löw77b, Löwxxa, Löwxx]. **Using** [Boy04, Boy05, FHL55, LFG75, LGC78a, LP83, FL07, Löw54a, LCS+70, Löw72e, Löw76c, Löw76d, Löw76b, Löw77f, LGC78b, Red76]. **VI** [Löw94f]. **VIA** [Löw64m]. **VIA** [Laz04, Kry02]. **Vibrational** [Löw94e, Löw94f]. **Vibratic** [Ber04]. **vid** [Löw76c, Löw91j]. **View** [Löw65h, Löw74c, Löw80j, Löw87c, Löw89b, Löw07b, Sce09a]. **Viewpoint** [Löw65c]. **VII** [Löw64a]. **VIII** [Kle66b, Löw64b]. **Virial** [FL62, Löw59a]. **Vitan** [Ano02]. **Vleck** [Löw71g]. **Vol** [Box83, Gor84, Kut67b, Kut67a, MK09]. **Vols** [Rei04b]. **Volume** [Boy04, Boy05, LSZ+99a, SB17, BK04]. **Volumes** [Boy04, Löw69c]. **vozbuzhdennyh** [KK87].
Waller [LGBC89, LGJLCB89]. Water [JL87, KJL87]. WATOC [Löw91c].
Watson [Baj75]. Wave [BC04, Löw50b, LA56, Löw63i, Löw86d, CSHM04, Löw60a, Löw86i, NA12, Pan82a, Pan82b, Pan83, Pan84]. wave-function [Löw86i]. Wavefunctions [FL57, LL72, Löw64d]. waves [Löw50a]. Way [Löw89c, Löw90i]. Weak [BJ76]. Weighted [LOT76, Mak81, BM86].
Weights [Kat04]. Welfare [Löw77g]. Wergeland [Löw69c]. Weyl [Heh76].
Whitney [LÖSZ87b, Löw88h, Löw88g]. Wigner [Löw64k]. Wildbad [HDK72]. Will [Löw86j]. without [BDMC06]. Wolfsberg [CD04]. Words [Löw91]. work [SB02]. Workshop [Car88, LÖ82a, LCG82a, Löw89b, Löw88j, Löw68i]. World [Boy04, Boy05, BK04, Löw74c, Löw91c, Rei04a, Rei04b].


Years [DFKS05, Löw85a, Par03, Löw85i, LGJLCB89]. Yngve [BDL+94, LSZ+99b]. York [Kle66b, Kön68, Kut67b]. York-London [Kle66b, Kut67b].

zahlr [Kle66b].

References


REFERENCES


[AM12] C. Amovilli and N. H. March. Relation between the Slater–Kohn–Sham orbitals generated by the one-body potential $v(r)$ of DFT
REFERENCES


REFERENCES

[Brändas:2004:FWQ]

[Behera:1991:CLC]

[Berrondo:1969:POS]

[Bhatia:1986:WLO]

[Bosanac:1983:AQC]

[Bouferguene:2005:ATS]
REFERENCES


REFERENCES


[Bass:1971:DR]


[Bass:1971:D]


[Bartlett:1976:NIO]


[Bouferguene:2006:GBQ]


[Bochevarov:2007:SSR]


[Buckingham:1965:BRB]

REFERENCES


REFERENCES


DeA
Viccaro:1976:SPL


DelRe:1976:NOP


Dykstra:2005:TAC


Doggett:1977:UPL


Duff:1971:CFL


Erdahl:1987:DMD


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

Homan:1967:BRB


Jansen:1977:PLS


Jones:1987:MLF


Jiao:2015:ALC


Jhon:1987:SRC

REFERENCES


REFERENCES


Jones:1978:MFS


Jones:1989:LAF


Karlsson:2002:SEI


Katriel:2004:WSP


Kibler:2004:SQM


Krems:2004:CAM


REFERENCES


REFERENCES


Kar:1988:EBS


Kar:1987:CA


Kutzelnigg:1967:BRBb


Kutzelnigg:1967:BRBa


Löwdin:1956:SSC

REFERENCES


[Laz04] Paolo Lazzeretti. Unified approach to intensities in vibrational spectroscopies via dynamic electromagnetic shieldings at the nuclei of a molecule. In Brändas and Kryachko [BK04], pages
Larsson:1976:OMC


Löwdin:1997:E


Langhoff:2004:ALM


Löwdin:1997:1


Löwdin:1978:KFT

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Lindgren:2004:CBM

Linderberg:2010:SIP

Lundqvist:1951:CCI

Lindner:1968:ULB

Löwdin:1970:CLB

Laskowski:1972:TCM
Bernard Laskowski and Per-Olov Löwdin. Treatment of constants of motion in the variation principle. I. Symmetry properties of

**Lowdin:1972:SCTb**


**Lowdin:1972:SCTa**


**Lowdin:1992:SSG**


**Lowdin:1989:SRP**


**Lowdin:1976:PISa**


**Lowdin:1977:PISa**

[LÖ77] Per-Olov Löwdin and Yngve Öhrn, editors. *Proceedings of the International Symposium on Atomic, Molecular, and Solid-State Theory, Collision Phenomena, and Computational Methods, held
REFERENCES


REFERENCES


REFERENCES


REFERENCES

ISSN 0020-7608 (print), 1097-461X (electronic). Quantum Chemistry Symposium No. 34.


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Löw39] Per-Olov Löwdin. Lorentz-transformationen och den kinematiska relativitetsprincipen. (Swedish) [The Lorentz transformation and


[Löw48d] Per-Olov Löwdin. A quantum mechanical calculation of the cohesive energy, the interionic distance, and the elastic constants of some ionic crystals. II. The elastic constants $c_{12}$ and $c_{44}$. *Arkiv för matematik, astronomi och fysik, utgivet av K. Svenska vetenskapsakademien*, 35A(30):1–18, 1948. CODEN AMAFA X. ISSN 0365-4133.
Per-Olov Löwdin. *A theoretical investigation into some properties of ionic crystals: a quantum mechanical treatment of the cohesive energy, the interionic distance, the elastic constants, and the compression at high pressures, with numerical applications to some alkali halides.* Almqvist and Wiksell, Uppsala, Sweden, 1948. xi + 126 + 1 pp. LCCN QB 498 349 (??).


REFERENCES


REFERENCES


[Löw54e] Per-Olov Löwdin. Studies of atomic self-consistent fields. II. Interpolation problems. Quarterly Report 4, Solid-State and Molecular Theory Group, MIT, Cambridge, MA, USA, ????. 1–?? pp. Published in [Löw53c, Löw54d].

REFERENCES


[Löw58g] Per-Olov Löwdin. Some aspects of the recent development of the theory of the electronic structure of atoms. In W. O. Milligan,
REFERENCES


Lowdin:1958:SDP


Lowdin:1959:SPV


Lowdin:1959:CPM


Lowdin:1959:IV


Lowdin:1960:ETT


Lowdin:1960:QTE

### REFERENCES

<table>
<thead>
<tr>
<th>Reference ID</th>
<th>Author</th>
<th>Title</th>
<th>Journal</th>
<th>Volume, Issue, Pages</th>
<th>Date</th>
<th>Volume, Issue, Pages</th>
<th>Date</th>
</tr>
</thead>
</table>


[Löw63g] Per-Olov Löwdin. Remarks in connection with the International Conference on Atomic and Molecular Quantum Mechanics in Honour of Prof. E. A. Hylleraas on Sanibel Island, January 13–19,


REFERENCES


[Löw64l] Per-Olov Löwdin. Studies in perturbation theory. III. Solution of the Schrödinger equation under a variation of a parameter. *Jour-
REFERENCES


[Löw65f] Per-Olov Löwdin, editor. Proceedings of the International Symposium on Atomic and Molecular Orbital Quantum Theory, Dedicated to Professor Robert Sanderson Mulliken, Sanibel Island,
REFERENCES

Lowdin:1965:PISb


Lowdin:1965:QGA


Lowdin:1965:QTT


Lowdin:1965:SPTa


Lowdin:1965:SPTb


REFERENCES

Löwdin:1967:EPLa


Löwdin:1967:EPLb


Löwdin:1967:GAC


Löwdin:1967:NQC


Löwdin:1967:Pa


Löwdin:1967:PIS

REFERENCES


[Loew68e] Per-Olov Löwdin. On the non-orthogonality problem. Technical Report TF 146, Quantum Theory Project, Departments of Chemistry and Physics, University of Florida, Gainesville, FL 32611-8435, USA, June 1, 1968. 21 pp. Published in [Löw70b].


REFERENCES


[Lowdin:1969:I]


[Löwdin:1969:PIS]


[Löwdin:1969:SAH]


[Löwdin:1969:SCP]


[Löwdin:1970:AQC]

REFERENCES


REFERENCES


REFERENCES


[Löw74c] Per-Olov Löwdin. Mäniskan och hennes psyke i den moderna kvantteorins världsbild. (Swedish) Man and his psyche in modern
quantum theory’s world view]. *Forskning och Praktik*, 6(??):121–125, 1974. CODEN ????. ISSN ????


REFERENCES


[ Löw76c ] Per-Olov Löwdin. Internationella aktiviteter vid Kvantkemiska Institutionen och forskargruppen vid Uppsala Universitet. (Swedish)
REFERENCES

[International activities at the Quantum Chemistry Institute and research group at Uppsala University]. *Universen, Uppsala Universitet informerar*, 1/76:??, 1976. CODEN ????. ISSN ????

Löwdin:1976:QCU


Löwdin:1977:QTT


Löwdin:1977:STL


Löwdin:1977:AQC


Löwdin:1977:KCO


Löwdin:1977:P

REFERENCES


[Löw78c] Per-Olov Löwdin. “Low Temperature Physics and Cosmic Microwave Background Radiation”: the 1978 Nobel prizes in physics.

**Lowdin:1978:P**


**Lowdin:1978:QTT**

Per-Olov Löwdin. Quantum theory as a trace algebra. *International Journal of Quantum Chemistry. Symposium*, 12:197–266, 1978. CODEN IJQSAF. ISSN 0020-7608 (print), 1097-461X (electronic). Not in symposium volumes 11–13. Only references in Science Citation Index are to this paper, and [Löwd82d]. See addendum comment [Löw81b].

**Lowdin:1979:P**


**Lowdin:1980:PIC**


**Lowdin:1980:AQC**


**Lowdin:1980:IRN**

REFERENCES


REFERENCES


REFERENCES


REFERENCES


Lowdin:1985:CSA


Lowdin:1985:CBR


Lowdin:1985:P


Lowdin:1985:SAH


Lowdin:1985:SCE


Lowdin:1985:TFY

REFERENCES


REFERENCES

February 25–March 1, 1985 in Palm Coast, Florida, pages 577–??


Problems, Many Body Phenomena, and Computational Quantum Chemistry.


REFERENCES

Lowdin:1987:TJC


Lowdin:1988:CCP


Lowdin:1988:ANF


Lowdin:1988:IGQ


Lowdin:1988:STI


Lowdin:1988:CSA

[Löw88e] Per-Olov Löwdin. On the change of spectra associated with unbounded similarity transformations of a many-particle Hamiltonian and the occurrence of resonance states in the method of


REFERENCES


[Löw89d] Per-Olov Löwdin. On the present situation of quantum chemistry: Chairman’s introductory remarks at the 6th International
REFERENCES


REFERENCES


Lowdin:1990:LWC


Lowdin:1990:PISb


Lowdin:1990:PISa


Lowdin:1991:E


Lowdin:1991:IHM

REFERENCES


REFERENCES


[Löw91i] Per-Olov Löwdin. Om osäkerhetsrelationerna i akustiken och deras betydelse vid definitionen av begreppet ton. (Swedish) [On uncertainty relations in acoustics and their meaning by the definition of the concept of tone]. Invited paper at Colloquium on “Quid est Sonus - Quid est Tonus” at the Swedish Royal Academy of Music, Stockholm, February 1991.


REFERENCES

(print), 2326-9243 (electronic). URL http://www.jstor.org/
stable/986815.

Lowdin:1991:PTE

[Löw91n] Per-Olov Löwdin. On the pairing theorem and its extension. Israel
ISSN 0021-2148. Ruben Pauncz dedicatory volume.

Lowdin:1991:P

[Löw91o] Per-Olov Löwdin. Preface. Advances in Quantum Chem-
S0065327608603603.

Lowdin:1991:PISb

[Löw91p] Per-Olov Löwdin, editor. Proceedings of the International Sym-
posium on Quantum Biology and Quantum Pharmacology: held
at the Ponce de Leon Conference Center, St. Augustine, Florida,
chemistry. Quantum biology symposium. John Wiley and Sons,
57348-5. ISSN 0360-8832. LCCN QH301.I52 1991.

Lowdin:1991:PISa

[Löw91q] Per-Olov Löwdin, editor. Proceedings of the International Sym-
posium on Quantum Chemistry, Solid-State Physics, and Compu-
tational Methods: held at the Ponce de Leon Conference Center,
St. Augustine, Florida, March 9–16, 1991, volume 25 of Inter-
national journal of quantum chemistry. Quantum chemistry sym-
CODEN IJQBDZ. ISBN 0-471-57349-3. ISSN 0360-8832. LCCN

Lowdin:1991:SCP

[Löw91r] Per-Olov Löwdin. Some current problems in quantum chemistry
as described by their key words and the International Journal of
Quantum Chemistry. International Journal of Quantum Chem-
istry, 39(1):3–10, January 1991. CODEN IJQCB2. ISSN 0020-
7608 (print), 1097-461X (electronic).

Lowdin:1991:TOH

[Löw91s] Per-Olov Löwdin. Toner och harmoni: Nägot om tonsystemets
uppkomst och harmonilärens grunder. (Swedish) [Tone and har-
mony: Something about the tone systems development and the
foundations of harmony]. Proc. of the Royal Academy of Arts and Sciences in Uppsala, 28(??):33–??, 1991. CODEN ???? ISSN ????


**Lowdin:1992:IJQc**


**Lowdin:1992:IJQd**


**Lowdin:1992:Ia**


**Lowdin:1992:Ib**


**Lowdin:1992:BAI**


**Lowdin:1992:LAL**

REFERENCES


REFERENCES


REFERENCES


[Lowdin:1994:PISa]

[Lowdin:1994:PISb]

[Lowdin:1994:SCP]

[Lowdin:1994:SRP]

[Lowdin:1995:IJQb]
REFERENCES


[ Löw95g] Per-Olov Löwdin. On fundamentals, logic, and the connection between the natural sciences. *International Journal of Quantum
REFERENCES


REFERENCES


REFERENCES


[Löw97d] Per-Olov Löwdin. Some aspects on the development of the natural sciences and their importance for modern society and for our global environment. International Journal of Quantum
REFERENCES


Special Issue: In Honor of Lionel Goodman. Issue Edited by Michael Kasha.


[Löwxxc] Per-Olov Löwdin. Some aspects on the development of the natural sciences and their importance for modern society. ???, ??(??): ??, 19xx. Paper prepared for publication by the National Science Council of ROC, Taiwan.


Lowdin:2007:CPM


Lowdin:2007:SABB


Lowdin:2007:SAC


Lowdin:2007:SRDA


Lowdin:1964:MOC


Lowdin:1983:NHQ


Lowdin:1960:CIO

REFERENCES


[LS76] Per-Olov Löwdin and John R. Sabin, editors. Proceedings of the International Symposium on Quantum Biology and Quantum
REFERENCES


REFERENCES

Lowdin:1981:PISb


Lowdin:1981:PISc


Lowdin:1982:PISc


Lowdin:1982:PISb


Lowdin:1983:ECa

REFERENCES


REFERENCES


Lowdin:1988:AQC


Lowdin:1989:AQC


Lowdin:1991:AQCa


Lowdin:1992:AQCb


REFERENCES


REFERENCES


REFERENCES


Lowdin:1999:AQCe


Lowdin:1999:AQCb


REFERENCES


REFERENCES


Mayer:2002:HFM


Mayer:2002:LMS


Mayer:2010:LPT


Mamedov:2009:CTCb


Mamedov:2010:CTC

REFERENCES


Mamedov:2010:ECT


Mamedov:2011:UBC


Mamedov:2011:UGO


Mamedov:2012:CTC


McIntosh:1976:QGF

Harold V. McIntosh. Quantization and a Green’s function for systems of linear ordinary differential equations. In Quan-
REFERENCES

McLaughlin:1981:BRB


Mehra:1975:SCP


Meissner:2003:LPT


Mezey:1997:QSM


Mayer:2004:TNP


Micha:1976:MBT

REFERENCES


Mamedov:2008:CTC


Mamedov:2009:CTCa


Macintyre:1968:EED


Micha:1983:IP


Micha:1983:PIS


**Mayer:1993:SCG**


**Morikawa:1978:VAL**


**Mayhall:2010:OBQ**


**Midtdal:1968:SSP**


**Masovic:1981:BSC**


**Mahalakshmi:2004:LLI**

REFERENCES


REFERENCES


REFERENCES


**Panin:1982:MRCb**


**Panin:1983:MRCc**


**Panin:1984:MRC**


**Parr:1966:BRB**


**Park:2003:HQC**


**Park:2009:BAM**

REFERENCES


Patterson:1962:DMR


Pauncz:1976:IPP


Pauncz:1962:SAMa


Pauncz:1962:SAMb


PeresdeAndrade:2012:PCP


Pullman:1983:NHQ


REFERENCES


REFERENCES


[SCER09] Eric R. Scerri. Löwdin’s remarks on the aufbau principle and a philosopher’s view of ab initio quantum chemistry. In Se-
REFERENCES


Szczepanik:2013:SAL


Sidi:2014:AEB


Szabados:2004:ASP


Srivastava:2017:CLM


Sovic:2005:NME


Szabados:2014:LBF

Stepanov:1977:KSG


Sutcliffe:2002:SOP


Suzuki:1984:ESC


Suzuki:1984:SCL


Suzuki:1985:SCL


Suzuki:1987:CCE

REFERENCES


[TL82] Oscar E. Taurian and Per-Olov Löwdin. Some remarks on the projector associated with the intersection of two linear manifolds. *Acta physica Academiae Scientiarum Hungaricae*, 51(1–2):5–12,
REFERENCES


REFERENCES


REFERENCES

Yim:1981:DFR


Zerner:1994:IPS