Rafael Ramirez

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/993456/rafael-ramirez-publications-by-year.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

3,136 48 135 31 h-index g-index citations papers 5.28 139 3,325 3.2 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
135	Hydrogen dynamics on defective monolayer graphene. <i>Chemical Physics</i> , 2022 , 111597	2.3	O
134	Quantum effects in the structural and elastic properties of graphite: Path-integral simulations. <i>Physical Review B</i> , 2021 , 104,	3.3	1
133	Isotopic effects in chair graphane. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 157, 110182	3.9	O
132	Anharmonicity of the acoustic modes of graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	4
131	Nuclear quantum effects in graphane. <i>Chemical Physics</i> , 2020 , 533, 110737	2.3	1
130	Thermodynamic properties of graphene bilayers. <i>Physical Review B</i> , 2020 , 101,	3.3	6
129	Isotopic effects in structural properties of graphene. European Physical Journal B, 2020 , 93, 1	1.2	3
128	Nuclear quantum effects in graphene bilayers. <i>Journal of Chemical Physics</i> , 2019 , 150, 204707	3.9	4
127	Phonon dispersion in two-dimensional solids from atomic probability distributions. <i>Journal of Chemical Physics</i> , 2019 , 151, 224107	3.9	5
126	Thermal properties of graphene from path-integral simulations. <i>Journal of Chemical Physics</i> , 2018 , 148, 102302	3.9	19
125	Thermal control of graphene morphology: A signature of its intrinsic surface tension. <i>Physical Review B</i> , 2018 , 97,	3.3	2
124	Comment on A novel approach to calculate thermal expansion of graphene: Molecular dynamics study By Hamid Ghasemi, Ali Rajabpour. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	
123	Communication: Critical behavior in graphene: Spinodal instability at room temperature. <i>Journal of Chemical Physics</i> , 2018 , 149, 041102	3.9	2
122	Thermal properties of graphene under tensile stress. <i>Physical Review B</i> , 2018 , 97,	3.3	9
121	Elastic properties and mechanical tension of graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	18
120	Path-integral simulation of graphene monolayers under tensile stress. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31898-31909	3.6	4
119	Anharmonic effects in the optical and acoustic bending modes of graphene. <i>Physical Review B</i> , 2016 , 93,	3.3	24

(2010-2016)

118	Quantum effects in graphene monolayers: Path-integral simulations. <i>Journal of Chemical Physics</i> , 2016 , 145, 224701	3.9	25
117	Path-integral simulation of ice VII: Pressure and temperature effects. Chemical Physics, 2015, 461, 125-1	1 3 63	8
116	Path-integral simulation of solids. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 233201	1.8	35
115	Ice and water droplets on graphite: a comparison of quantum and classical simulations. <i>Journal of Chemical Physics</i> , 2014 , 141, 204701	3.9	13
114	Configurational entropy of hydrogen-disordered ice polymorphs. <i>Journal of Chemical Physics</i> , 2014 , 140, 234502	3.9	19
113	Configurational entropy of ice from thermodynamic integration. <i>Chemical Physics Letters</i> , 2013 , 568-569, 70-74	2.5	14
112	Topological characterization of crystalline ice structures from coordination sequences. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16676-85	3.6	8
111	The phase diagram of ice: a quasi-harmonic study based on a flexible water model. <i>Journal of Chemical Physics</i> , 2013 , 139, 084503	3.9	11
110	Simulation of quantum zero-point effects in water using a frequency-dependent thermostat. <i>Physical Review B</i> , 2013 , 87,	3.3	14
109	Anomalous nuclear quantum effects in ice. <i>Physical Review Letters</i> , 2012 , 108, 193003	7.4	104
109	Anomalous nuclear quantum effects in ice. <i>Physical Review Letters</i> , 2012 , 108, 193003 Quasi-harmonic approximation of thermodynamic properties of ice Ih, II, and III. <i>Journal of Chemical Physics</i> , 2012 , 137, 044502	7·4 3·9	104
	Quasi-harmonic approximation of thermodynamic properties of ice Ih, II, and III. <i>Journal of Chemical</i>	3.9	, ,
108	Quasi-harmonic approximation of thermodynamic properties of ice Ih, II, and III. <i>Journal of Chemical Physics</i> , 2012 , 137, 044502	3.9	41
108	Quasi-harmonic approximation of thermodynamic properties of ice Ih, II, and III. <i>Journal of Chemical Physics</i> , 2012 , 137, 044502 High-density amorphous ice: a path-integral simulation. <i>Journal of Chemical Physics</i> , 2012 , 137, 104505 The phase diagram of ice Ih, II, and III: a quasi-harmonic study. <i>Journal of Chemical Physics</i> , 2012 ,	3.9	12
108 107 106	Quasi-harmonic approximation of thermodynamic properties of ice Ih, II, and III. <i>Journal of Chemical Physics</i> , 2012 , 137, 044502 High-density amorphous ice: a path-integral simulation. <i>Journal of Chemical Physics</i> , 2012 , 137, 104505 The phase diagram of ice Ih, II, and III: a quasi-harmonic study. <i>Journal of Chemical Physics</i> , 2012 , 137, 134503	3.9 3.9 3.9	41 12 13
108 107 106	Quasi-harmonic approximation of thermodynamic properties of ice Ih, II, and III. <i>Journal of Chemical Physics</i> , 2012 , 137, 044502 High-density amorphous ice: a path-integral simulation. <i>Journal of Chemical Physics</i> , 2012 , 137, 104505 The phase diagram of ice Ih, II, and III: a quasi-harmonic study. <i>Journal of Chemical Physics</i> , 2012 , 137, 134503 Path-integral simulation of ice Ih: The effect of pressure. <i>Physical Review B</i> , 2011 , 84,	3.9 3.9 3.9	41 12 13
108 107 106 105	Quasi-harmonic approximation of thermodynamic properties of ice Ih, II, and III. <i>Journal of Chemical Physics</i> , 2012 , 137, 044502 High-density amorphous ice: a path-integral simulation. <i>Journal of Chemical Physics</i> , 2012 , 137, 104505 The phase diagram of ice Ih, II, and III: a quasi-harmonic study. <i>Journal of Chemical Physics</i> , 2012 , 137, 134503 Path-integral simulation of ice Ih: The effect of pressure. <i>Physical Review B</i> , 2011 , 84, Kinetic energy of protons in ice Ih and water: A path integral study. <i>Physical Review B</i> , 2011 , 84, Path integral Monte Carlo simulations for rigid rotors and their application to water. <i>Molecular</i>	3.9 3.9 3.9 3.3	41 12 13 12 32

100	Diffusion of hydrogen in graphite: a molecular dynamics simulation. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 255402	3	36
99	Molecular hydrogen in graphite: A path-integral simulation. <i>Physical Review B</i> , 2010 , 82,	3.3	13
98	Heat capacity of water: A signature of nuclear quantum effects. <i>Journal of Chemical Physics</i> , 2010 , 132, 046101	3.9	81
97	Can gas hydrate structures be described using classical simulations?. <i>Journal of Chemical Physics</i> , 2010 , 132, 114503	3.9	36
96	Molecular hydrogen in silicon: A path-integral simulation. <i>Physical Review B</i> , 2009 , 80,	3.3	5
95	Isotope effects on the lattice parameter of cubic SiC. <i>Physical Review B</i> , 2009 , 79,	3.3	8
94	Quantum contributions in the ice phases: the path to a new empirical model for water-TIP4PQ/2005. <i>Journal of Chemical Physics</i> , 2009 , 131, 024506	3.9	57
93	Quantum effects on the maximum in density of water as described by the TIP4PQ/2005 model. Journal of Chemical Physics, 2009 , 131, 124518	3.9	24
92	Crystal structure and charge-transport properties of N-trimethyltriindole: Novel p-type organic semiconductor single crystals. <i>Organic Electronics</i> , 2009 , 10, 643-652	3.5	49
91	Vibrational properties and diffusion of hydrogen on graphene. <i>Physical Review B</i> , 2009 , 79,	3.3	45
90	Strong covalent bonding between two graphene layers. <i>Physical Review B</i> , 2008 , 77,	3.3	126
89	Path integral calculation of free energies: quantum effects on the melting temperature of neon. Journal of Chemical Physics, 2008, 129, 064110	3.9	22
88	Quantum path-integral study of the phase diagram and isotope effects of neon. <i>Journal of Chemical Physics</i> , 2008 , 129, 204502	3.9	25
87	Path-integral molecular dynamics simulation of 3CBiC. <i>Physical Review B</i> , 2008 , 77,	3.3	20
86	On the influence of vibrational modes and intramolecular isomerization processes on the NMR parameters of bullvalene: A Feynman path integral lab initio investigation. <i>Chemical Physics</i> , 2007 , 342, 1-15	2.3	19
85	Diffusion of muonium and hydrogen in diamond. <i>Physical Review Letters</i> , 2007 , 99, 205504	7.4	27
84	Path-integral molecular dynamics simulation of diamond. <i>Physical Review B</i> , 2006 , 73,	3.3	51
83	Hydrogen and muonium in diamond: A path-integral molecular dynamics simulation. <i>Physical Review B</i> , 2006 , 73,	3.3	26

(2001-2006)

82	Influence of nuclear fluctuations on the NMR parameters of bullvalene: A Feynman path integral [] Ab initio study. <i>Chemical Physics Letters</i> , 2006 , 432, 579-584	2.5	7
81	Finite-temperature properties of the muonium substituted ethyl radical CH2MuCH2: nuclear degrees of freedom and hyperfine splitting constants. <i>Molecular Physics</i> , 2005 , 103, 2407-2436	1.7	12
80	Feynman path integral (a) initio study of the isotropic hyperfine coupling constants of the muonium substituted ethyl radical CH2MuCH2. Chemical Physics Letters, 2005, 402, 346-351	2.5	6
79	Anharmonic phonon energies in rare-gas solids derived by path-integral simulations. <i>Physical Review B</i> , 2005 , 72,	3.3	18
78	Theoretical study of the nuclear degrees of freedom in the isotropic and anisotropic hyperfine coupling constants of the C2H5 radical: a Feynman path integrallensity functional approach. <i>Molecular Physics</i> , 2005 , 103, 105-127	1.7	4
77	Rare-gas solids under pressure: A path-integral Monte Carlo simulation. <i>Physical Review B</i> , 2005 , 71,	3.3	17
76	Nuclear degrees of freedom in calculated isotropic hyperfine coupling constants of the ethyl radical: a Feynman path integral (abb initio study. <i>Chemical Physics Letters</i> , 2004 , 389, 367-372	2.5	5
75	Quantum corrections to classical time-correlation functions: hydrogen bonding and anharmonic floppy modes. <i>Journal of Chemical Physics</i> , 2004 , 121, 3973-83	3.9	254
74	Density functional theory study of the interaction of monomeric water with the Ag{111} surface. <i>Physical Review B</i> , 2004 , 69,	3.3	51
73	Water dimer diffusion on Pd[111] assisted by an H-bond donor-acceptor tunneling exchange. <i>Physical Review Letters</i> , 2004 , 92, 136104	7.4	96
72	Anharmonic effects on the structural and vibrational properties of the ethyl radical: A path integral Monte Carlo study. <i>Journal of Chemical Physics</i> , 2003 , 119, 4328-4338	3.9	23
71	On the influence of nuclear fluctuations on calculated NMR shieldings of benzene and ethylene: a Feynman path integral b initio investigation*. <i>International Journal of Quantum Chemistry</i> , 2002 , 86, 280-296	2.1	23
70	Ramīlez and Līpez-Ciudad Reply:. <i>Physical Review Letters</i> , 2002 , 88,	7.4	4
69	Feynman path integral - ab initio investigation of the excited-state properties of benzene. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002 , 35, 2583-2592	1.3	3
68	Excited State Properties of C6H6 and C6D6 Studied by Feynman Path Integrall Initio Simulations. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 3169-3180	2.8	8
67	Ground state and excited state properties of ethylene isomers studied by a combined Feynman path integral-ab initio approach. <i>Molecular Physics</i> , 2001 , 99, 1249-1273	1.7	9
66	Nuclear quantum effects in calculated NMR shieldings of benzene; a Feynman path integral study. <i>Molecular Physics</i> , 2001 , 99, 1155-1158	1.7	10
65	Electrons and nuclei of ethylene isomers; a Feynman path integral 🗈 initio study. <i>Chemical Physics</i> , 2001 , 264, 371-400	2.3	17

64	Isotope dependence of dispersion forces: a Feynman path integrallb initio study. <i>Computational and Theoretical Chemistry</i> , 2001 , 536, 277-287		3
63	Addendum to Isotope Effect in the Mott Transition: A Prediction on the Basis of Molecular All-Quantum Simulations. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 220, 1033-1035	1.3	6
62	Isotope Effect in the Mott Transition; a Prediction on the Basis of Molecular All-Quantum Simulations. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 219, 313-321	1.3	7
61	Feynman path integrallib initio investigation of the excited state properties of C2H4. <i>Chemical Physics Letters</i> , 2000 , 322, 527-535	2.5	14
60	Nuclear quantum effects in calculated NMR shieldings of ethylene; a Feynman path integral lab initio study. <i>Chemical Physics Letters</i> , 2000 , 332, 117-124	2.5	24
59	Spectral decomposition and Bloch equation of the operators represented by fixed-centroid path integrals. <i>Journal of Chemical Physics</i> , 2000 , 113, 10849-10860	3.9	16
58	Structural and thermodynamic properties of diamond: A path-integral Monte Carlo study. <i>Physical Review B</i> , 2000 , 63,	3.3	50
57	Phase-Space Formulation of Thermodynamic and Dynamical Properties of Quantum Particles. <i>Physical Review Letters</i> , 1999 , 83, 4456-4459	7·4	26
56	The Schrdinger formulation of the Feynman path centroid density. <i>Journal of Chemical Physics</i> , 1999 , 111, 3339-3348	3.9	43
55	Nuclear quantum effects in the electronic structure of C2H4: a combined Feynman path integrallib initio approach. <i>Chemical Physics Letters</i> , 1998 , 291, 44-50	2.5	17
54	Electrons and nuclei of C6H6 and C6D6; a combined Feynman path integral 🗈 initio approach. <i>Chemical Physics</i> , 1998 , 227, 271-300	2.3	22
53	Feynman Effective Classical Potential in the Schrdinger Formulation. <i>Physical Review Letters</i> , 1998 , 81, 3303-3306	7.4	31
52	The isotope effect in electronic expectation values: an all-quantum study of C6 H6 and C6 D6. <i>Molecular Physics</i> , 1998 , 93, 801-807	1.7	2
51	The isotope effect in electronic expectation values: an all-quantum study of C6H6 and C6D6. <i>Molecular Physics</i> , 1998 , 93, 801-807	1.7	6
50	Low-energy quantum dynamics of atoms at defects; interstitial oxygen in silicon. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 3107-3116	1.8	11
49	Thermally Assisted Tunneling of the B-H Complex in Silicon. <i>Physical Review Letters</i> , 1997 , 79, 111-114	7.4	20
48	Microscopic structure and reorientation kinetics of B-H complexes in silicon. <i>Physical Review B</i> , 1997 , 56, 15139-15150	3.3	10
47	Interstitial oxygen in germanium and silicon. <i>Physical Review B</i> , 1997 , 56, 3820-3833	3.3	48

46	Dynamics of quantum particles by path-integral centroid simulations: The symmetric Eckart barrier. Journal of Chemical Physics, 1997 , 107, 3550-3557	3.9	8
45	Isotope dependence of the lattice parameter of germanium from path-integral Monte Carlo simulations. <i>Physical Review B</i> , 1997 , 56, 237-243	3.3	39
44	Synthesis and Crystal Structure of Ba6Cu12Fe13S27. <i>Journal of Solid State Chemistry</i> , 1997 , 128, 62-65	3.3	7
43	All-quantum description of molecules: electrons and nuclei of C6H6. <i>Chemical Physics Letters</i> , 1997 , 275, 377-385	2.5	14
42	Bond-centred hydrogen and muonium in silicon; a Feynman path-integral simulation. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 8309-8320	1.8	4
41	Electron transfer and electronic structure of KCuFeS2. Journal of Alloys and Compounds, 1996, 234, 40-4	1 2 5.7	64
40	On the relaxation of simple magnetic systems. <i>Journal of Applied Physics</i> , 1996 , 79, 6479	2.5	8
39	Modelling the time dependence of the magnetization in a system with many degrees of freedom. Journal of Magnetism and Magnetic Materials, 1996 , 157-158, 363-365	2.8	4
38	Quantum delocalization of nuclei and electrons: cyclobutadiene. <i>Chemical Physics Letters</i> , 1996 , 248, 379-385	2.5	20
37	Synthesis, Crystal Structure, and Electronic Structure of CsCuFeS2. <i>Journal of Solid State Chemistry</i> , 1996 , 122, 31-35	3.3	16
36	Low-temperature delocalization of hydrogen in crystalline silicon. <i>Solid State Communications</i> , 1996 , 97, 319-322	1.6	4
35	Thermodynamic properties of c-Si derived by quantum path-integral Monte Carlo simulations. <i>Physical Review B</i> , 1996 , 53, 9869-9875	3.3	34
34	Collective demagnetization processes in systems of exchange coupled grains. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 1843-1844	2.8	2
33	From metastable to stable states in a magnetic system with many degrees of freedom. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 1847-1848	2.8	4
32	Electron transfer in the insertion of alkali metals in chalcopyrite. <i>Materials Research Bulletin</i> , 1995 , 30, 43-48	5.1	11
31	Non-Arrhenius relaxation in micromagnetic models of systems with many degrees of freedom. <i>Physical Review B</i> , 1995 , 52, 16034-16040	3.3	30
30	Path-integral Monte Carlo simulation of hydrogen in crystalline silicon. <i>Physical Review B</i> , 1995 , 51, 1670	6 1 .31 67	
29	On the delocalization of the C nuclei in the C60molecule; a Feynman path-integral Monte Carlo study. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 4847-4853	1.8	15

28	Dynamics of the Carbon Nuclei in C60 Studied by Feynman Path-Integral Quantum Monte Carlo Simulations. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 12401-12408		17
27	. IEEE Transactions on Magnetics, 1994 , 30, 4359-4361	2	2
26	Distinct quantum behavior of hydrogen and muonium in crystalline silicon. <i>Physical Review Letters</i> , 1994 , 73, 126-129	7.4	45
25	Ordering of transition metal atoms in MCuFeS2 (M = Li, Na): electronic structure and Monte Carlo simulations. <i>Chemical Physics</i> , 1994 , 189, 585-591	2.3	4
24	Monte Carlo simulation of Xe adsorbed on Al(100). Surface Science, 1993, 296, L27-L32	1.8	1
23	Path-integral simulation of crystalline silicon. <i>Physical Review B</i> , 1993 , 48, 14659-14662	3.3	30
22	Defect-mediated melting of Xe adsorbed on the Si(100)-2 x 1 surface: A molecular-dynamics study. <i>Physical Review B</i> , 1993 , 47, 4555-4562	3.3	3
21	Energetics of cation ordering in the faujasite framework: Monte Carlo simulations. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 2246-2253		26
20	Statistical thermodynamics of Si,Al ordering in aluminosilicate faujasites. <i>Physical Review B</i> , 1992 , 46, 787-794	3.3	15
19	Molecular dynamics simulation of Xe diffusion on the Si(100)-2¶ surface. <i>Journal of Chemical Physics</i> , 1992 , 96, 7838-7847	3.9	10
18	Commensurate versus incommensurate structure of xenon adsorbed on the Si(100) surface. <i>Surface Science</i> , 1992 , 271, L373-L377	1.8	2
17	Configurational density of states in zeolite frameworks: a Monte Carlo approach. <i>Chemical Physics Letters</i> , 1992 , 194, 79-83	2.5	4
16	Long- versus short-range Si, Al ordering in zeolites X and Y. <i>Chemical Physics Letters</i> , 1991 , 183, 199-203	2.5	10
15	Oxygen reactivity in vanadium pentoxide: electronic structure and infrared spectroscopy studies. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 8960-8965		75
14	A Crystal Orbital approach for two- and three-dimensional solids on the basis of CNDO/INDO Hamiltonians. Basis equations. <i>International Journal of Quantum Chemistry</i> , 1988 , 34, 47-71	2.1	31
13	The two-dimensional band structure of (polyphthalocyaninato)Ni(II). <i>International Journal of Quantum Chemistry</i> , 1988 , 34, 73-84	2.1	7
12	The use of symmetry in reciprocal space integrations. Asymmetric units and weighting factors for numerical integration procedures in any crystal symmetry. <i>International Journal of Quantum Chemistry</i> , 1988 , 34, 571-594	2.1	83
11	Analytic Expressions for the One-Center Elements of Compton Profiles. Slater-Type Orbitals. <i>Physica Status Solidi (B): Basic Research</i> , 1988 , 149, K135-K140	1.3	1

LIST OF PUBLICATIONS

The One-Dimensional Band Structure of (Tetrazaporphyrinato)iron(II). <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1987 , 91, 717-724		5	
On the validity of formal electron counting rules in lithium silicides. <i>Journal of Physics and Chemistry of Solids</i> , 1987 , 48, 51-56	3.9	12	
The band structure of one-dimensional (tetrazaporphyrinato)cobalt(II). A semi-empirical self-consistent field crystal orbital analysis. <i>Chemical Physics</i> , 1987 , 117, 405-413	2.3	8	
[NbAs8]3[]a Novel Type of Complex and an Unexpected One-Dimensional Chain Structure: [Rb{NbAs8}]2[] <i>Angewandte Chemie International Edition in English</i> , 1986 , 25, 353-354		46	
The band structure of Ni(H5C3B2). An example for energetic stabilization due to dimerization. <i>Chemical Physics</i> , 1986 , 106, 213-224	2.3	9	
An efficient technique for the evaluation of lattice sums in crystal orbital (CO) calculations. <i>Physica Status Solidi (B): Basic Research</i> , 1986 , 135, 661-667	1.3	13	
Simple geometric generation of special points in brillouin-zone integrations. Two-dimensional bravais lattices. <i>International Journal of Quantum Chemistry</i> , 1986 , 30, 391-411	2.1	90	
The Electronic Structure and the Nature of Chemical Bond of Crystalline Li12Si7. A Semiempirical Crystal Orbital (CO) Approach Based on the Self-Consistent-Field (SCF) Approximation in the Hartree-Fock (HF) Scheme Applied to One-Dimensional (1D) Subunits of the Li12Si7 Solid.		21	
The solid-state electronic structure and the nature of the chemical bond of the ternary Zintl-phase Li8MgSi6. A tight-binding analysis. <i>Chemical Physics</i> , 1985 , 95, 17-35	2.3	15	
Tight-binding approach to the solid-state structure of the complex Zintl-phase Li12Si7. <i>Physical Review B</i> , 1984 , 30, 4870-4873	3.3	31	
	On the validity of formal electron counting rules in lithium silicides. <i>Journal of Physics and Chemistry of Solids</i> , 1987, 48, 51-56 The band structure of one-dimensional (tetrazaporphyrinato)cobalt(II). A semi-empirical self-consistent field crystal orbital analysis. <i>Chemical Physics</i> , 1987, 117, 405-413 [NbAs8]3[la Novel Type of Complex and an Unexpected One-Dimensional Chain Structure: [Rb{NbAs8}]2llAngewandte Chemie International Edition in English, 1986, 25, 353-354 The band structure of Ni(H5C3B2). An example for energetic stabilization due to dimerization. <i>Chemical Physics</i> , 1986, 106, 213-224 An efficient technique for the evaluation of lattice sums in crystal orbital (CO) calculations. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 135, 661-667 Simple geometric generation of special points in brillouin-zone integrations. Two-dimensional bravais lattices. <i>International Journal of Quantum Chemistry</i> , 1986, 30, 391-411 The Electronic Structure and the Nature of Chemical Bond of Crystalline Li12Si7. A Semiempirical Crystal Orbital (CO) Approach Based on the Self-Consistent-Field (SCF) Approximation in the Hartree-Fock (HF) Scheme Applied to One-Dimensional (1D) Subunits of the Li12Si7 Solid. The solid-state electronic structure and the nature of the chemical bond of the ternary Zintl-phase Li8MgSi6. A tight-binding analysis. <i>Chemical Physics</i> , 1985, 95, 17-35	On the validity of formal electron counting rules in lithium silicides. Journal of Physics and Chemistry of Solids, 1987, 48, 51-56 The band structure of one-dimensional (tetrazaporphyrinato)cobalt(II). A semi-empirical self-consistent field crystal orbital analysis. Chemical Physics, 1987, 117, 405-413 [NbAs8]3[]a Novel Type of Complex and an Unexpected One-Dimensional Chain Structure: [Rb[NbAs8]]2[]angewandte Chemie International Edition in English, 1986, 25, 353-354 The band structure of Ni(H5C3B2). An example for energetic stabilization due to dimerization. Chemical Physics, 1986, 106, 213-224 An efficient technique for the evaluation of lattice sums in crystal orbital (CO) calculations. Physica Status Solidi (B): Basic Research, 1986, 135, 661-667 Simple geometric generation of special points in brillouin-zone integrations. Two-dimensional bravial alttices. International Journal of Quantum Chemistry, 1986, 30, 391-411 The Electronic Structure and the Nature of Chemical Bond of Crystalline Li12Si7. A Semiempirical Crystal Orbital (CO) Approach Based on the Self-Consistent-Field (SCF) Approximation in the Hartree-Fock (HF) Scheme Applied to One-Dimensional (1D) Subunits of the Li12Si7 Solid. The solid-state electronic structure and the nature of the chemical bond of the ternary Zintl-phase Li8MgSi6. A tight-binding analysis. Chemical Physics, 1985, 95, 17-35 Tight-binding approach to the solid-state structure of the complex Zintl-phase Li12Si7. Physical	On the validity of formal electron counting rules in lithium silicides. Journal of Physics and Chemistry of Solids, 1987, 48, 51-56 The band structure of one-dimensional (tetrazaporphyrinato)cobalt(II). A semi-empirical self-consistent field crystal orbital analysis. Chemical Physics, 1987, 117, 405-413 [NbAs8]3IDa Novel Type of Complex and an Unexpected One-Dimensional Chain Structure: [Rb{NbAs8}]2IDAngewandte Chemie International Edition in English, 1986, 25, 353-354 [NbAs8]2IDAngewandte Chemie International Edition in English, 1986, 25, 353-354 An efficient technique for the evaluation of lattice sums in crystal orbital (CO) calculations. Physica Status Solidi (B): Basic Research, 1986, 135, 661-667 Simple geometric generation of special points in brillouin-zone integrations. Two-dimensional bravais lattices. International Journal of Quantum Chemistry, 1986, 30, 391-411 The Electronic Structure and the Nature of Chemical Bond of Crystalline Li12Si7. A Semiempirical Crystal Orbital (CO) Approach Based on the Self-Consistent-Field (SCF) Approximation in the Hartree-Fock (HF) Scheme Applied to One-Dimensional (1D) Subunits of the Li12Si7 Solid. The solid-state electronic structure and the nature of the chemical bond of the ternary Zintl-phase Li8MgSi6. A tight-binding analysis. Chemical Physics, 1985, 95, 17-35 Tight-binding approach to the solid-state structure of the complex Zintl-phase Li12Si7. Physical