

Claudio M Zicovich-Wilson

List of Publications by Year in descending order

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142
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Quantum-mechanical condensed matter simulations with CRYSTAL. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1360.	14.6	1,277
2	Long-range exchange limit and dispersion in pure silica zeolites. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	3
3	Full Mechanism of Zeolite Dealumination in Aqueous Strong Acid Medium: Ab Initio Periodic Study on H-Clinoptilolite. Journal of Physical Chemistry C, 2017, 121, 2652-2660.	3.1	20
4	The A-center defect in diamond: quantum mechanical characterization through the infrared spectrum. Physical Chemistry Chemical Physics, 2017, 19, 14478-14485.	2.8	16
5	Nuclear-relaxed elastic and piezoelectric constants of materials: Computational aspects of two quantum-mechanical approaches. Journal of Computational Chemistry, 2017, 38, 257-264.	3.3	16
6	Antiferromagnetic vs. non-magnetic $\hat{\mu}$ phase of solid oxygen. Periodic density functional theory studies using a localized atomic basis set and the role of exact exchange. Physical Chemistry Chemical Physics, 2017, 19, 2826-2833.	2.8	8
7	The V + I defects in diamond: An ab initio investigation of the electronic structure, of the Raman and IR spectra, and of their possible recombination. Journal of Chemical Physics, 2016, 145, 184701.	3.0	9
8	Serpentine polymorphism: a quantitative insight from first-principles calculations. CrystEngComm, 2016, 18, 4412-4419.	2.6	24
9	Hirshfeld-I charges in linear combination of atomic orbitals periodic calculations. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	16
10	Infrared and Raman spectroscopic features of the self-interstitial defect in diamond from exact-exchange hybrid DFT calculations. Physical Chemistry Chemical Physics, 2016, 18, 21288-21295.	2.8	31
11	Direct Piezoelectric Tensor of 3D Periodic Systems through a Coupled Perturbed Hartree-Fock/Kohn-Sham Method. Zeitschrift Fur Physikalische Chemie, 2016, 230, 719-736.	2.8	11
12	The influence of the DFT approach on the structure and relative stability of models for cellulose I allomorphs. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	7
13	Solid oxygen $\hat{\mu}$ phase and its transition from $\hat{\mu}$ phase at extremely high pressure: A first principles analysis. Physical Review B, 2015, 92, 114104.	3.2	15
14	Katoite under pressure: an ab initio investigation of its structural, elastic and vibrational properties sheds light on the phase transition. Physical Chemistry Chemical Physics, 2015, 17, 2660-2669.	2.8	16
15	Understanding the $\hat{\mu}$ and $\hat{\eta}$ High-Pressure Solid Phases of Oxygen. Systematic Periodic Density Functional Theory Studies Using Localized Atomic Basis. Journal of Chemical Theory and Computation, 2015, 11, 1195-1205.	5.3	15
16	Chemical interaction of water molecules with framework Al in acid zeolites: a periodic ab initio study on H-clinoptilolite. Physical Chemistry Chemical Physics, 2015, 17, 23657-23666.	2.8	9
17	On the Raman and infrared vibrational spectra of the $\hat{\epsilon}$ and $\hat{\eta}$ phases of oxygen. Systematic DFT studies with localized basis sets. Chemical Physics Letters, 2015, 638, 82-86.	2.6	7
18	The role of long-range van der Waals forces in the relative stability of SiO ₂ -zeolites. Chemical Physics Letters, 2015, 619, 109-114.	2.6	27

#	ARTICLE	IF	CITATIONS
19	C<scp>RYSTAL14</scp>: A program for the <i>ab initio</i> investigation of crystalline solids. International Journal of Quantum Chemistry, 2014, 114, 1287-1317.	2.0	1,151
20	On the full exploitation of symmetry in periodic (as well as molecular) self-consistent-field <i>ab initio</i> calculations. Journal of Chemical Physics, 2014, 141, 104108.	3.0	21
21	Exploitation of symmetry in periodic Self-Consistent-Field ab initio calculations: application to large three-dimensional compounds. Science China Chemistry, 2014, 57, 1418-1426.	8.2	4
22	Structural, electronic and energetic properties of giant icosahedral fullerenes up to C6000: insights from an ab initio hybrid DFT study. Physical Chemistry Chemical Physics, 2014, 16, 13390-13401.	2.8	30
23	Periodic Quantum Chemical Studies on Anhydrous and Hydrated Acid Clinoptilolite. Journal of Physical Chemistry A, 2014, 118, 5779-5789.	2.5	11
24	Synthesis of Aluminosilicate Natrolites and Control of Their Tetrahedral Atom Ordering. Chemistry of Materials, 2014, 26, 3361-3363.	6.7	15
25	The molecular and electronic structure of poly-[2,7-(benzo[2,1;3,4-b&e2-2&e2-(3,3&e2-didodecyl-5,5&e2-bithiophenyl))] (PBTT): A periodic DFT approach. Chemical Physics Letters, 2014, 607, 47-51.		1
26	Electronic Charge Density Analysis of Li-Doped Polyacetylene: Molecular vs Periodic Descriptions and Nature of Li-to-Chain Bonding. Journal of Physical Chemistry B, 2013, 117, 725-730.	2.6	1
27	Boronate Ligands in Materials: Determining Their Local Environment by Using a Combination of IR/Solid&e2;State NMR Spectroscopies and DFT Calculations. Chemistry - A European Journal, 2013, 19, 880-891.	3.3	19
28	The electronic structure of MgO nanotubes. An ab initio quantum mechanical investigation. Physical Chemistry Chemical Physics, 2013, 15, 13296.	2.8	10
29	Host&e2;Guest Stabilization of a Zeolite Strained Framework: In Situ Transformation of Zeolite MTW into the Less Dense and More Strained ITW. Chemistry of Materials, 2013, 25, 729-738.	6.7	30
30	Raman Spectrum of Pyrope Garnet. A Quantum Mechanical Simulation of Frequencies, Intensities, and Isotope Shifts. Journal of Physical Chemistry A, 2013, 117, 11464-11471.	2.5	25
31	On the use of symmetry in SCF calculations. The case of fullerenes and nanotubes. AIP Conference Proceedings, 2012, , .	0.4	9
32	Exceptionally Low Shear Modulus in a Prototypical Imidazole-Based Metal-Organic Framework. Physical Review Letters, 2012, 108, 095502.	7.8	210
33	Coupled perturbed HF/KS calculation of the dielectric constant of crystalline systems. The case of six members of the garnet family. , 2012, , .		1
34	Zeolite Synthesis in Fluoride Media: Structure Direction toward ITW by Small Methylimidazolium Cations. Journal of the American Chemical Society, 2012, 134, 2255-2263.	13.7	56
35	Electronic structure, dielectric properties and infrared vibrational spectrum of fayalite: An ab initio simulation with an all&e2;electron Gaussian basis set and the B3LYP functional. International Journal of Quantum Chemistry, 2012, 112, 2098-2108.	2.0	20
36	Beyond Wigner's theorems: The role of symmetry equivalences in quantum systems. International Journal of Quantum Chemistry, 2012, 112, 3543-3551.	2.0	3

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37	Adjusting framework ionicity to favour crystallisation of zeolites with strained structural units. Periodic quantum chemical studies. Catalysis Science and Technology, 2011, 1, 868.	4.1	8
38	Comparative Study on the Performance of Hybrid DFT Functionals in Highly Correlated Oxides: The Case of CeO ₂ and Ce ₂ O ₃ . Journal of Chemical Theory and Computation, 2011, 7, 56-65.	5.3	125
39	Properties of Carbon Nanotubes: An ab Initio Study Using Large Gaussian Basis Sets and Various DFT Functionals. Journal of Physical Chemistry C, 2011, 115, 8876-8885.	3.1	42
40	Initial structure of cetyltrimethylammonium bromide micelles in aqueous solution from molecular dynamics simulations. Soft Matter, 2011, 7, 8508.	2.7	29
41	Physico-Chemical Features of Aluminum Hydroxides As Modeled with the Hybrid B3LYP Functional and Localized Basis Functions. Journal of Physical Chemistry C, 2011, 115, 13107-13134.	3.1	50
42	The IR vibrational properties of six members of the garnet family: A quantum mechanical ab initio study. American Mineralogist, 2011, 96, 1787-1798.	1.9	28
43	Structure and X-ray spectrum of crystalline poly(3-hexylthiophene) from DFT-van der Waals calculations. Physica Status Solidi (B): Basic Research, 2011, 248, 1360-1368.	1.5	65
44	On the use of symmetry in the <i>ab initio</i> quantum mechanical simulation of nanotubes and related materials. Journal of Computational Chemistry, 2010, 31, 855-862.	3.3	48
45	A fundamental connection between symmetry and spatial localization properties of basis sets. Theoretical Chemistry Accounts, 2010, 126, 165-175.	1.4	8
46	Catalytic Reaction Mechanism of Mn-Doped Nanoporous Aluminophosphates for the Aerobic Oxidation of Hydrocarbons. Chemistry - A European Journal, 2010, 16, 13638-13645.	3.3	37
47	Flexibility in a Metal-Organic Framework Material Controlled by Weak Dispersion Forces: The Bistability of MIL-53(Al). Angewandte Chemie, 2010, 122, 7663-7665.	2.0	35
48	Flexibility in a Metal-Organic Framework Material Controlled by Weak Dispersion Forces: The Bistability of MIL-53(Al). Angewandte Chemie - International Edition, 2010, 49, 7501-7503.	13.8	158
49	Magnetic interactions and electronic structure of uvarovite and andradite garnets. An ab initio all-electron simulation with the CRYSTAL06 program. International Journal of Quantum Chemistry, 2010, 110, 338-351.	2.0	14
50	Anatase(001) 3 ML Nanotubes, The First TiO ₂ Nanotube With Negative Strain Energies: A DFT Prediction. Journal of Physical Chemistry Letters, 2010, 1, 2854-2857.	4.6	41
51	Comment on "Accurate Hartree-Fock energy of extended systems using large Gaussian basis sets". Physical Review B, 2010, 81, .	3.2	13
52	Mechanism of F [•] Elimination from Zeolitic D4R Units: A Periodic B3LYP Study on the Octadecasil Zeolite. Journal of Physical Chemistry C, 2010, 114, 2989-2995.	3.1	16
53	<i>In Situ</i> Transformation of TON Silica Zeolite into the Less Dense ITW: Structure-Direction Overcoming Framework Instability in the Synthesis of SiO ₂ Zeolites. Journal of the American Chemical Society, 2010, 132, 3461-3471.	13.7	53
54	Search and Characterization of Transition State Structures in Crystalline Systems Using Valence Coordinates. Journal of Chemical Theory and Computation, 2010, 6, 1341-1350.	5.3	19

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55	Periodic density functional theory calculations for 3-dimensional polyacetylene with empirical dispersion terms. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3289.	2.8	23
56	Role of dispersive interactions in the CO adsorption on MgO(001): periodic B3LYP calculations augmented with an empirical dispersion term. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6382.	2.8	60
57	Ab initio modeling of layered materials with the CRYSTAL code: an overview. <i>Zeitschrift für Kristallographie</i> , 2009, 224, 241-250.	1.1	8
58	Ab initio quantum mechanical simulation of the Raman spectrum of grossular. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 416-418.	2.5	19
59	On the Interaction between Silica Surfaces and Surfactants. A 2D Periodic B3LYP Investigation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13309-13316.	3.1	6
60	Periodic DFT modeling of bulk and surface properties of MgCl ₂ . <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6525.	2.8	54
61	Periodic density functional theory studies of Li-doped polythiophene: Dependence of electronic and structural properties on dopant concentration. <i>Journal of Chemical Physics</i> , 2009, 130, 164904.	3.0	16
62	Ab initio modeling of protein/biomaterial interactions: competitive adsorption between glycine and water onto hydroxyapatite surfaces. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9005.	2.8	40
63	Role of dispersive interactions in layered materials: a periodic B3LYP and B3LYP-D* study of Mg(OH) ₂ , Ca(OH) ₂ and kaolinite. <i>Journal of Materials Chemistry</i> , 2009, 19, 2564.	6.7	75
64	Ab initio simulation of the IR spectra of pyrope, grossular, and andradite. <i>Journal of Computational Chemistry</i> , 2008, 29, 2268-2278.	3.3	84
65	B3LYP augmented with an empirical dispersion term (B3LYP-D*) as applied to molecular crystals. <i>CrystEngComm</i> , 2008, 10, 405-410.	2.6	775
66	Ab Initio Modeling of Protein/Biomaterial Interactions: Glycine Adsorption at Hydroxyapatite Surfaces. <i>Journal of the American Chemical Society</i> , 2008, 130, 16181-16183.	13.7	97
67	Periodic Density Functional Theory Calculations for Na-doped Quasi-one-dimensional Polyacetylene Chains. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9493-9500.	3.1	8
68	Ab-initio quantum mechanical study of akdalaite (5Al ₂ O ₃ ·Tj ETQqO O O rgBT /Overlock 10 Tf 50 227 012013.	0.4	12
69	Two points of view to look at symmetry. <i>Journal of Physics: Conference Series</i> , 2008, 117, 012030.	0.4	4
70	Ab-initio thermal physics and Cr-isotopic fractionation of MgCr ₂ O ₄ . <i>American Mineralogist</i> , 2007, 92, 98-108.	1.9	8
71	Structure, Vibrational Analysis, and Insights into Host-Guest Interactions in As-Synthesized Pure Silica ITQ-12 Zeolite by Periodic B3LYP Calculations. <i>Journal of the American Chemical Society</i> , 2007, 129, 11512-11523.	13.7	55
72	Uniplanar Orientations as a Tool To Assign Vibrational Modes of Polymer Chain. <i>Macromolecules</i> , 2007, 40, 3895-3897.	4.8	33

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73	Periodic DFT Studies of AlPO-11: The Role of Hydration on Structural Properties. Journal of Physical Chemistry C, 2007, 111, 9664-9670.	3.1	9
74	Ab Initio Investigation of Structure and Cohesive Energy of Crystalline Urea. Journal of Physical Chemistry B, 2007, 111, 26-33.	2.6	87
75	Ab initio vibrational spectra and dielectric properties of carbonates: magnesite, calcite and dolomite. Theoretical Chemistry Accounts, 2007, 117, 991-1000.	1.4	108
76	Influence of the exchange-correlation functional in all-electron calculations of the vibrational frequencies of corundum (α -Al ₂ O ₃). International Journal of Quantum Chemistry, 2006, 106, 1703-1714.	2.0	71
77	A quantum-mechanical study of the vinyl fluoride adsorbed on the rutile TiO ₂ (110) surface. Surface Science, 2006, 600, 305-317.	1.9	43
78	Symmetry-adapted Localized Wannier Functions Suitable for Periodic Local Correlation Methods. Theoretical Chemistry Accounts, 2006, 116, 726-733.	1.4	49
79	Periodic Hartree-Fock and density functional theory calculations for Li-doped polyacetylene chains. Journal of Chemical Physics, 2006, 124, 244703.	3.0	14
80	Ab Initio Study of the Vibrational Spectrum and Related Properties of Crystalline Compounds; the Case of CaCO ₃ Calcite. Zeitschrift Fur Physikalische Chemie, 2006, 220, 893-912.	2.8	168
81	The constrained space orbital variation analysis for periodic ab initio calculations. Journal of Chemical Physics, 2006, 124, 194105.	3.0	7
82	Phonon vibrational frequencies and elastic properties of solid SrFCl. An ab initio study. European Physical Journal B, 2005, 43, 453-461.	1.5	26
83	Vibration Frequencies of Mg ₃ Al ₂ Si ₃ O ₁₂ Pyrope. An ab initio Study with the CRYSTAL Code.. ChemInform, 2005, 36, no.	0.0	2
84	Local-MP2 electron correlation method for nonconducting crystals. Journal of Chemical Physics, 2005, 122, 094113.	3.0	182
85	CRYSTAL: a computational tool for the ab initio study of the electronic properties of crystals. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, .	0.8	824
86	Carbon monoxide adsorption on alkali and proton-exchanged chabazite: an ab-initio periodic study using the CRYSTAL code. Molecular Physics, 2005, 103, 2559-2571.	1.7	32
87	Vibration Frequencies of Mg ₃ Al ₂ Si ₃ O ₁₂ Pyrope. An ab Initio Study with the CRYSTAL Code. Journal of Physical Chemistry B, 2005, 109, 6146-6152.	2.6	142
88	The Isobutylene ⁺ Isobutane Alkylation Process in Liquid HF Revisited. Journal of Physical Chemistry B, 2005, 109, 12946-12955.	2.6	10
89	The vibrational spectrum of calcite (CaCO ₃): an ab initio quantum-mechanical calculation. Physics and Chemistry of Minerals, 2004, 31, 559-564.	0.8	182
90	The calculation of the vibrational frequencies of crystalline compounds and its implementation in the CRYSTAL code. Journal of Computational Chemistry, 2004, 25, 888-897.	3.3	796

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91	Calculation of the vibration frequencies of β -quartz: The effect of Hamiltonian and basis set. <i>Journal of Computational Chemistry</i> , 2004, 25, 1873-1881.	3.3	451
92	Can Cu ⁺ -Exchanged Zeolites Store Molecular Hydrogen? An ab initio Periodic Study Compared with Low-Temperature FTIR. <i>ChemInform</i> , 2004, 35, no.	0.0	0
93	Vibrational spectrum of brucite, Mg(OH) ₂ : a periodic ab initio quantum mechanical calculation including OH anharmonicity. <i>Chemical Physics Letters</i> , 2004, 396, 308-315.	2.6	142
94	In Situ Disorder \rightarrow Order Transformation in Synthetic Gallosilicate Zeolites with the NAT Topology. <i>Journal of the American Chemical Society</i> , 2004, 126, 13742-13751.	13.7	45
95	Can Cu ⁺ -Exchanged Zeolites Store Molecular Hydrogen? An Ab-Initio Periodic Study Compared with Low-Temperature FTIR. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8278-8286.	2.6	91
96	Periodic ab Initio Study of the Electronic Structure of α -Al ₂ O ₃ and AlN(w) Surfaces Based on Localized Wannier Functions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7316-7322.	2.6	6
97	Structural, Electronic, and Vibrational Properties of the Ti ^{IV} O ₂ Quantum Wires in the Titanosilicate ETS-10. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1328-1336.	2.6	79
98	DFT Cluster Calculations for Alkali Cation-Exchanged Zeolites Interacting with Ethylchloride and HCl. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10658-10662.	2.6	12
99	Modeling Soot and Its Functionalization under Atmospheric or Combustion Conditions by Density Functional Theory within Molecular (Polycyclic-Aromatic-Hydrocarbon-like) and Periodic Methodologies. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3215-3223.	2.6	35
100	Electronic structure characterization of six semiconductors through their localized Wannier functions. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5319.	2.8	6
101	Infrared Investigation of Fluoride Occluded in Double Four-Member Rings in Zeolites. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2796-2800.	2.6	23
102	Preferential Location of Ge in the Double Four-Membered Ring Units of ITQ-7 Zeolite. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2634-2642.	2.6	228
103	Characterization of the electronic structure of crystalline compounds through their localized Wannier functions. <i>Journal of Chemical Physics</i> , 2002, 116, 1120-1127.	3.0	87
104	Polarization properties of ZnO and BeO: ϵ Anab initiostudy through the Berry phase and Wannier functions approaches. <i>Physical Review B</i> , 2001, 65, .	3.2	213
105	Naphthalene Included within All-Silica Zeolites: Influence of the Host on the Naphthalene Photophysics. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9973-9979.	2.6	63
106	Influence of the Local Geometry of Zeolite Active Sites and Olefin Size on the Stability of Alkoxide Intermediates. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11169-11177.	2.6	66
107	Cluster and Periodic Calculations of the Ethene Protonation Reaction Catalyzed by theta-1 Zeolite: Influence of Method, Model Size, and Structural Constraints. <i>Chemistry - A European Journal</i> , 2001, 7, 1295-1303.	3.3	28
108	A general method to obtain well localized Wannier functions for composite energy bands in linear combination of atomic orbital periodic calculations. <i>Journal of Chemical Physics</i> , 2001, 115, 9708-9719.	3.0	191

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109	Well localized crystalline orbitals obtained from Bloch functions: The case of KNbO ₃ . Physical Review B, 2001, 64, .	3.2	50
110	H-Chabazite with variable Si/Al ratio: stability and OH vibrational frequency computed in a periodic LCAO B3-LYP approach. Chemical Physics Letters, 2000, 318, 247-255.	2.6	52
111	Charge distribution in NaY zeolite from charge-transfer molecular dynamics. Chemical Physics Letters, 2000, 327, 224-229.	2.6	9
112	Modifying the Catalytic Activity of Ti-Zeolites by Isomorphic Substitution of Si by Ge Atoms. A Periodic Quantum-Chemical Study. Journal of Physical Chemistry B, 2000, 104, 4134-4140.	2.6	28
113	A periodic Hartree-Fock study of Na adsorption on the TiO ₂ (110) rutile surface. Chemical Physics Letters, 1999, 303, 111-116.	2.6	18
114	High-pressure decomposition of MCr ₂ O ₄ spinels (M=Mg, Mn, Zn) by ab initio methods. Physics and Chemistry of Minerals, 1999, 26, 389-395.	0.8	45
115	Periodic B3-LYP calculations on H-Edingtonites, both alone and interacting with acetylene. Physical Chemistry Chemical Physics, 1999, 1, 545-553.	2.8	31
116	Cluster and periodic ab initio study of the ethane-ethene hydride transfer reaction catalyzed by acid chabazite. Is the cluster model able to describe accurately the host-guest interactions?. Physical Chemistry Chemical Physics, 1999, 1, 537-543.	2.8	35
117	Interaction of Ti-Zeolites with Water. A Periodic ab Initio Study. Journal of Physical Chemistry B, 1999, 103, 988-994.	2.6	37
118	A periodic ab initio study of the structure and relative stability of silica polymorphs. Chemical Physics Letters, 1998, 292, 394-402.	2.6	74
119	On the use of symmetry-adapted crystalline orbitals in SCF-LCAO periodic calculations. I. The construction of the symmetrized orbitals. , 1998, 67, 299-309.		53
120	On the use of symmetry-adapted crystalline orbitals in SCF-LCAO periodic calculations. II. Implementation of the self-consistent-field scheme and examples. , 1998, 67, 311-320.		27
121	Trapped-hole centres containing lithium and sodium in MgO, CaO and SrO. An ab initio supercell study. Journal of Physics and Chemistry of Solids, 1998, 59, 1119-1124.	4.0	20
122	Titanium-Containing Zeolites. A Periodic ab Initio Hartree-Fock Characterization. Journal of Physical Chemistry B, 1998, 102, 1411-1417.	2.6	64
123	On the structure and stability of Ti-zeolites. A comparison of cluster and periodic ab initio calculations. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1785-1790.	0.4	5
124	Periodic ab initio study of the oxidizing sites in Ti-containing zeolites. Journal of Molecular Catalysis A, 1997, 119, 449-458.	4.8	20
125	Periodic ab initio study of silico-faujasite. Chemical Physics Letters, 1997, 277, 227-233.	2.6	16
126	Semiempirical Hamiltonians for spatially confined π -electron systems. , 1996, 60, 971-981.		8

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127	Atoms and molecules in cavities: A method for study of spatial confinement effects. International Journal of Quantum Chemistry, 1995, 54, 61-72.	2.0	19
128	²⁷ Al and ²⁹ Si MAS NMR Study of Zeolite MCM-22. The Journal of Physical Chemistry, 1995, 99, 7002-7008.	2.9	87
129	Formation of Surface Methoxy Groups on H-Zeolites from Methanol. A Quantum Chemical Study. The Journal of Physical Chemistry, 1995, 99, 13224-13231.	2.9	88
130	Electronic Confinement of Molecules in Microscopic Pores. A New Concept Which Contributes to the Explanation of the Catalytic Activity of Zeolites. The Journal of Physical Chemistry, 1994, 98, 10863-10870.	2.9	138
131	Orbital-controlled reactions catalysed by zeolites: Electrophilic alkylation of aromatics. Journal of Physical Organic Chemistry, 1994, 7, 364-370.	1.9	13
132	Spatially confined simple quantum mechanical systems. International Journal of Quantum Chemistry, 1994, 50, 429-444.	2.0	65
133	Acid softness and hardness in large-pore zeolites as a determinant parameter to control selectivity in orbital-controlled reactions. Journal of the American Chemical Society, 1994, 116, 134-142.	13.7	55
134	A simple proof for the formula to get symmetrized powers of group representations. International Journal of Quantum Chemistry, 1993, 47, 319-323.	2.0	1
135	Ab initio molecular orbital calculations of the protonation of propylene and isobutene by acidic hydroxyl groups of isomorphously substituted zeolites. The Journal of Physical Chemistry, 1993, 97, 13713-13719.	2.9	105
136	Molecular orbital calculation of the soft-hard acidity of zeolites and its catalytic implications. Journal of Catalysis, 1992, 136, 521-530.	6.2	31
137	Theoretical EHT study of oxidative coupling of methane on pure MgO and MgO doped with Li and Na. Journal of Molecular Catalysis, 1991, 64, 191-200.	1.2	11