

# Juerg Hutter

## List of Publications by Year in Descending Order

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

168  
papers

21,341  
citations

60  
h-index

145  
g-index

174  
ext. papers

23,950  
ext. citations

5.4  
avg, IF

7.07  
L-index

#	Paper	IF	Citations
168	Double-hybrid density functionals for the condensed phase: Gradients, stress tensor, and auxiliary-density matrix method acceleration.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 074107	3.9	1
167	Towards electronic structure-based ab-initio molecular dynamics simulations with hundreds of millions of atoms. <i>Parallel Computing</i> , <b>2022</b> , 111, 102920	1	3
166	Efficient and low-scaling linear-response time-dependent density functional theory implementation for core-level spectroscopy of large and periodic systems. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 4736-4746	3.6	6
165	First-principles correction scheme for linear-response time-dependent density functional theory calculations of core electronic states. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 034108	3.9	3
164	CP2K: An electronic structure and molecular dynamics software package - Quickstep: Efficient and accurate electronic structure calculations. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 194103	3.9	421
163	MP2- and RPA-Based Ab Initio Molecular Dynamics and Monte Carlo Sampling <b>2020</b> , 523-543		
162	Modelling electrochemical systems with finite field molecular dynamics. <i>JPhys Energy</i> , <b>2020</b> , 2, 032005	4.9	32
161	Quantifying the hydration structure of sodium and potassium ions: taking additional steps on Jacob@ Ladder. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 10641-10652	3.6	24
160	Double-Hybrid DFT Functionals for the Condensed Phase: Gaussian and Plane Waves Implementation and Evaluation. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
159	Coupling of Surface Chemistry and Electric Double Layer at TiO Electrochemical Interfaces. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3871-3876	6.4	36
158	Stable and tunable phosphonic acid dipole layer for band edge engineering of photoelectrochemical and photovoltaic heterojunction devices. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1901-1909	35.4	32
157	DBCSR: A Library for Dense Matrix Multiplications on Distributed GPU-Accelerated Systems <b>2019</b> ,		1
156	Toward GW Calculations on Thousands of Atoms. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 306-312	6.4	65
155	Second generation Car-Parrinello MD: application to the h-BN/Rh(111) nanomesh. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	5
154	MP2- and RPA-Based Ab Initio Molecular Dynamics and Monte Carlo Sampling <b>2018</b> , 1-21		1
153	Large-Scale Computation of Nuclear Magnetic Resonance Shifts for Paramagnetic Solids Using CP2K. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 377-394	6.4	25
152	First-Principles Simulations of an Aqueous CO/Pt(111) Interface. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24068-24076	3.8	23

151	Exploring the Limitation of Molecular Water Oxidation Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12404-12412	3.8	27
150	Local Fitting of the Kohn-Sham Density in a Gaussian and Plane Waves Scheme for Large-Scale Density Functional Theory Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 2202-2214	6.4	5
149	Insight into (Co)Pyrphyrin Adsorption on Au(111): Effects of Herringbone Reconstruction and Dynamics of Metalation. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 11416-11427	3.8	13
148	Post-Synthesis Amine Borane Functionalization of a Metal-Organic Framework and Its Unusual Chemical Hydrogen Release Phenomenon. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 8823-8828	4.8	5
147	Fast evaluation of solid harmonic Gaussian integrals for local resolution-of-the-identity methods and range-separated hybrid functionals. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 034105	3.9	8
146	The impact of metalation on adsorption geometry, electronic level alignment and UV-stability of organic macrocycles on TiO(110). <i>Nanoscale</i> , <b>2017</b> , 9, 8756-8763	7.7	5
145	Mapping the Free Energy of Lithium Solvation in the Protic Ionic Liquid Ethylammonium Nitrate: A Metadynamics Study. <i>ChemSusChem</i> , <b>2017</b> , 10, 3083-3090	8.3	7
144	Increasing the Efficiency of Sparse Matrix-Matrix Multiplication with a 2.5D Algorithm and One-Sided MPI <b>2017</b> ,		5
143	Periodic GW calculations in the Gaussian and plane-waves scheme. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	23
142	Mass density fluctuations in quantum and classical descriptions of liquid water. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 244501	3.9	37
141	GW in the Gaussian and Plane Waves Scheme with Application to Linear Acenes. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 3623-35	6.4	71
140	GPU-Accelerated Sparse Matrix-Matrix Multiplication for Linear Scaling Density Functional Theory <b>2016</b> , 173-190		18
139	Large-Scale Cubic-Scaling Random Phase Approximation Correlation Energy Calculations Using a Gaussian Basis. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 5851-5859	6.4	47
138	From porphyrins to pyrphyrins: adsorption study and metalation of a molecular catalyst on Au(111). <i>Nanoscale</i> , <b>2016</b> , 8, 7958-68	7.7	25
137	Computing the Kirkwood g-Factor by Combining Constant Maxwell Electric Field and Electric Displacement Simulations: Application to the Dielectric Constant of Liquid Water. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2696-701	6.4	50
136	Formation and properties of a terpyridine-based 2D MOF on the surface of water. <i>2D Materials</i> , <b>2016</b> , 3, 025026	5.9	4
135	Computational Investigation and Design of Cobalt Aqua Complexes for Homogeneous Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7966-7975	3.8	31
134	Liquid Water through Density-Functional Molecular Dynamics: Plane-Wave vs Atomic-Orbital Basis Sets. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 3456-62	6.4	19

133	Thermal Effects on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite from Ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 8991-8997	3.8	101
132	Wetting of water on hexagonal boron nitride@Rh(111): a QM/MM model based on atomic charges derived for nano-structured substrates. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 14307-16	3.6	29
131	Dividing a complex reaction involving a hypervalent iodine reagent into three limiting mechanisms by ab initio molecular dynamics. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 785-94	3.5	29
130	Non-innocent adsorption of Co-porphyrin on rutile(110). <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 22846-54	3.6	18
129	Enabling simulation at the fifth rung of DFT: Large scale RPA calculations with excellent time to solution. <i>Computer Physics Communications</i> , <b>2015</b> , 187, 120-129	4.2	35
128	Forces and stress in second order Møller-Plesset perturbation theory for condensed phase systems within the resolution-of-identity Gaussian and plane waves approach. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 102803	3.9	50
127	Probing the structural and dynamical properties of liquid water with models including non-local electron correlation. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 054506	3.9	78
126	Building Blocks for Two-Dimensional Metal-Organic Frameworks Confined at the Air-Water Interface: An Ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 4023-4030	3.8	12
125	Functionalization of CeO <sub>2</sub> (1 1 1) by Deposition of Small Ni Clusters: Effects on CO <sub>2</sub> Adsorption and O Vacancy Formation. <i>ChemCatChem</i> , <b>2015</b> , 7, 625-634	5.2	27
124	Site-selective adsorption of phthalocyanine on h-BN/Rh(111) nanomesh. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 12374-84	3.6	39
123	Dielectric properties of water ice, the ice Ih/XI phase transition, and an assessment of density functional theory. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 590-6	3.4	29
122	Control of molecular organization and energy level alignment by an electronically nanopatterned boron nitride template. <i>ACS Nano</i> , <b>2014</b> , 8, 430-42	16.7	68
121	Synthesis and hydrogen adsorption properties of internally polarized 2,6-azulenedicarboxylate based metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18823-18830	13	22
120	Describing the chemical bonding in C <sub>70</sub> and C <sub>70</sub> O <sub>3</sub> – A quantum chemical topology study. <i>Chemical Physics</i> , <b>2014</b> , 433, 22-30	2.3	8
119	Correction to "Bulk Liquid Water at Ambient Temperature and Pressure from MP2 Theory". <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3066-7	6.4	16
118	Sparse matrix multiplication: The distributed block-compressed sparse row library. <i>Parallel Computing</i> , <b>2014</b> , 40, 47-58	1	94
117	Dehalogenation and coupling of a polycyclic hydrocarbon on an atomically thin insulator. <i>ACS Nano</i> , <b>2014</b> , 8, 6571-9	16.7	42
116	Electron transfer modifies chemical properties of C <sub>70</sub> fullerene surface: An ab initio molecular dynamics study of C <sub>70</sub> O <sub>3</sub> molozonides doped with light atoms. <i>Chemical Physics Letters</i> , <b>2014</b> , 605-606, 93-97	2.5	2

115	cp2k: atomistic simulations of condensed matter systems. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2014</b> , 4, 15-25	7.9	1578
114	Chemical Reactions on Metal-supported Hexagonal Boron Nitride Investigated with Density Functional Theory. <i>Chimia</i> , <b>2014</b> , 68, 596-601	1.3	9
113	Significant substituent effect on the anomerization of pyranosides: mechanism of anomerization and synthesis of a 1,2-cis glucosamine oligomer from the 1,2-trans anomer. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 124-32	4.8	20
112	Raman spectra from ab initio molecular dynamics and its application to liquid S-methyloxirane. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 094503	3.9	43
111	Hexagonal boron nitride on transition metal surfaces. <i>Theoretical Chemistry Accounts</i> , <b>2013</b> , 132, 1	1.9	85
110	Bulk Liquid Water at Ambient Temperature and Pressure from MP2 Theory. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3753-3759	6.4	117
109	Impact of donor-acceptor functionalization on the properties of linearly $\pi$ -conjugated oligomers: establishing quantitative relationships for the substituent and substituent cooperative effect based on quantum chemical calculations. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 12681-9	4.2	7
108	Efficient Linear-Scaling Density Functional Theory for Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4421-7	6.4	23
107	Moiré beatings in graphene on Ru(0001). <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	35
106	Coverage Effect of the CO <sub>2</sub> Adsorption Mechanisms on CeO <sub>2</sub> (111) by First Principles Analysis. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1701-1711	3.8	79
105	Structural and electronic properties of a large-scale Moiré pattern of hexagonal boron nitride on Cu(111) studied with density functional theory. <i>Nanoscale</i> , <b>2013</b> , 5, 5589-95	7.7	30
104	Nonlocal van der Waals functionals: the case of rare-gas dimers and solids. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 204103	3.9	37
103	Electron Correlation in the Condensed Phase from a Resolution of Identity Approach Based on the Gaussian and Plane Waves Scheme. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 2654-71	6.4	99
102	Simulation of Adsorption Processes at Metallic Interfaces: An Image Charge Augmented QM/MM Approach. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 5086-97	6.4	56
101	Second-Order Møller-Plesset Perturbation Theory in the Condensed Phase: An Efficient and Massively Parallel Gaussian and Plane Waves Approach. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 4177-88	6.4	106
100	Chiral distortion of confined ice oligomers (N = 5,6). <i>Langmuir</i> , <b>2012</b> , 28, 15246-50	4	10
99	Local Disorder in Lithium Imide from Density Functional Simulation and NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 18577-18583	3.8	5
98	Linear Scaling Self-Consistent Field Calculations with Millions of Atoms in the Condensed Phase. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 3565-73	6.4	111

97	Boron nitride on Cu(111): an electronically corrugated monolayer. <i>Nano Letters</i> , <b>2012</b> , 12, 5821-8	11.5	168
96	CarParrinello molecular dynamics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2012</b> , 2, 604-612	7.9	94
95	Real-world predictions from ab initio molecular dynamics simulations. <i>Topics in Current Chemistry</i> , <b>2012</b> , 307, 109-53		74
94	Nano-ice models for the water aggregates observed on the h-BN/Rh(111) nanomesh. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 445002	1.8	3
93	Endocyclic cleavage in glycosides with 2,3-trans cyclic protecting groups. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5610-9	16.4	61
92	Investigation of h-BN/Rh(111) Nanomesh Interacting with Water and Atomic Hydrogen. <i>Chimia</i> , <b>2011</b> , 65, 256-259	1.3	7
91	Semiempirical self-consistent polarization description of bulk water, the liquid-vapor interface, and cubic ice. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 6046-53	2.8	21
90	Investigation of Boron Nitride Nanomesh Interacting with Water. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 13685-13692	3.8	39
89	Comparative study of the nature of chemical bonding of corrugated graphene on Ru(0001) and Rh(111) by electronic structure calculations. <i>Surface Science</i> , <b>2011</b> , 605, 1360-1368	1.8	56
88	On the emergence of molecular structure. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	44
87	Extracting elements of molecular structure from the all-particle wave function. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 204302	3.9	36
86	An atomistic picture of the regeneration process in dye sensitized solar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4830-3	11.5	82
85	Protonation-Dependent Binding of Ruthenium Bipyridyl Complexes to the Anatase(101) Surface. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8398-8404	3.8	96
84	Auxiliary Density Matrix Methods for Hartree-Fock Exchange Calculations. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 2348-64	6.4	321
83	Nano-ice on boron nitride nanomesh: accessing proton disorder. <i>ChemPhysChem</i> , <b>2010</b> , 11, 399-403	3.2	31
82	Nanotexture Switching of Single-Layer Hexagonal Boron Nitride on Rhodium by Intercalation of Hydrogen Atoms. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 6256-6260	3.6	2
81	Nanotexture switching of single-layer hexagonal boron nitride on rhodium by intercalation of hydrogen atoms. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6120-4	16.4	62
80	A QM/MM investigation of thymine dimer radical anion splitting catalyzed by DNA photolyase. <i>ChemPhysChem</i> , <b>2009</b> , 10, 400-10	3.2	67

79	Low-Barrier Pathway for endo-Cleavage Induced Anomerization of Pyranosides with N-Benzyl-2,3-trans-oxazolidinone Groups. <i>European Journal of Organic Chemistry</i> , <b>2009</b> , 2009, 1127-1131 <sup>3,2</sup>		21
78	Isobaric-isothermal molecular dynamics simulations utilizing density functional theory: an assessment of the structure and density of water at near-ambient conditions. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 11959-64	3.4	302
77	Magnetic linear response properties calculations with the Gaussian and augmented-plane-wave method. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 014106	3.9	45
76	Accurate Hartree-Fock energy of extended systems using large Gaussian basis sets. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	42
75	Robust Periodic Hartree-Fock Exchange for Large-Scale Simulations Using Gaussian Basis Sets. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 3010-21	6.4	189
74	A Scheme for the Evaluation of Electron Delocalization and Conjugation Efficiency in Linearly EConjugated Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 506-14	6.4	25
73	Ab Initio Molecular Dynamics: Basic Theory and Advanced Methods <b>2009</b> ,		990
72	Ab initio molecular dynamics using hybrid density functionals. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 214104	3.9	182
71	Computational study of thymine dimer radical anion splitting in the self-repair process of duplex DNA. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3443-50	16.4	59
70	Beyond isotropic tumbling models: nuclear spin relaxation in liquids from first principles. <i>ChemPhysChem</i> , <b>2008</b> , 9, 2313-6	3.2	26
69	Car-Parrinello Molecular Dynamics Simulations of CaCl <sub>2</sub> Aqueous Solutions. <i>Journal of Chemical Theory and Computation</i> , <b>2008</b> , 4, 779-89	6.4	63
68	Notes on "Ewald summation of electrostatic multipole interactions up to quadrupolar level" [J. Chem. Phys. 119, 7471 (2003)]. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 074102	3.9	42
67	Direct energy functional minimization under orthogonality constraints. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 084113	3.9	45
66	A smooth script-l1-norm sparseness function for orbital based linear scaling total energy minimization. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 064107	3.9	13
65	Atomistic simulations of a solid/liquid interface: a combined force field and first principles approach to the structure and dynamics of acetonitrile near an anatase surface. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 064206	1.8	17
64	Inner-shell spectroscopy by the Gaussian and augmented plane wave method. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1599-610	3.6	69
63	Gaussian basis sets for accurate calculations on molecular systems in gas and condensed phases. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 114105	3.9	2003
62	Towards a rational design of ruthenium CO <sub>2</sub> hydrogenation catalysts by Ab initio metadynamics. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 6828-40	4.8	60



61	Molecular dynamics simulation of liquid water: hybrid density functionals. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 3685-91	3.4	222
60	Simulating fluid-phase equilibria of water from first principles. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 640-6	2.8	125
59	Density functional embedding for molecular systems. <i>Chemical Physics Letters</i> , <b>2006</b> , 421, 16-20	2.5	71
58	Ionic liquids from Car-Parrinello simulations, part I: liquid AlCl <sub>3</sub> . <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 11475-80	3.4	29
57	A density-functional approach to polarizable models: a Kim-Gordon response density interaction potential for molecular simulations. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 074108	3.9	12
56	CPMD: Car-Parrinello molecular dynamics. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2005</b> , 220,	1	26
55	Dual-level parallelism for ab initio molecular dynamics: Reaching teraflop performance with the CPMD code. <i>Parallel Computing</i> , <b>2005</b> , 31, 1-17	1	51
54	Quickstep: Fast and accurate density functional calculations using a mixed Gaussian and plane waves approach. <i>Computer Physics Communications</i> , <b>2005</b> , 167, 103-128	4.2	3322
53	The influence of temperature and density functional models in ab initio molecular dynamics simulation of liquid water. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 14515	3.9	417
52	Isobaric-isothermal monte carlo simulations from first principles: application to liquid water at ambient conditions. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1894-901	3.2	93
51	Car-Parrinello molecular dynamics on massively parallel computers. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1788-93	3.2	93
50	Car-Parrinello molecular dynamics study of the initial dinitrogen reduction step in Sellmann-type nitrogenase model complexes. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 574-83	4.8	28
49	Toward a Monte Carlo program for simulating vapor/liquid phase equilibria from first principles. <i>Computer Physics Communications</i> , <b>2005</b> , 169, 289-294	4.2	25
48	Ground and Excited State Density Functional Calculations with the Gaussian and Augmented-Plane-Wave Method. <i>Chimia</i> , <b>2005</b> , 59, 499-503	1.3	38
47	Solvent effects on electronic properties from Wannier functions in a dimethyl sulfoxide/water mixture. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 5133-42	3.9	79
46	HYDROPHOBIC HYDRATION FROM CARPARRINELLO SIMULATIONS. <i>International Journal of Modern Physics B</i> , <b>2004</b> , 18, 1951-1962	1.1	26
45	Computational approaches to activity in rhodium-catalysed hydroformylation. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 2435-44	4.8	48
44	A photochemical activation scheme of inert dinitrogen by dinuclear Ru(II) and Fe(II) complexes. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 4443-53	4.8	40



43	Hartree-Fock exchange in time dependent density functional theory: application to charge transfer excitations in solvated molecular systems. <i>Chemical Physics Letters</i> , <b>2004</b> , 394, 141-146	2.5	49
42	s-Tetrazine in Aqueous Solution: A Density Functional Study of Hydrogen Bonding and Electronic Excitations. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 2044-2052	2.8	28
41	Liquid Water from First Principles: Investigation of Different Sampling Approaches. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12990-12998	3.4	309
40	Large Scale Density Functional Calculations. <i>Lecture Notes in Computational Science and Engineering</i> , <b>2004</b> , 195-204	0.3	1
39	Time dependent density functional theory study of charge-transfer and intramolecular electronic excitations in acetone-water systems. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 12417-12431	3.9	128
38	QM/MM Car-Parrinello molecular dynamics study of the solvent effects on the ground state and on the first excited singlet state of acetone in water. <i>ChemPhysChem</i> , <b>2003</b> , 4, 1177-82	3.2	105
37	Excited state geometries within time-dependent and restricted open-shell density functional theories. <i>Computational and Theoretical Chemistry</i> , <b>2003</b> , 630, 163-175		21
36	Excited state nuclear forces from the Tamm-Dancoff approximation to time-dependent density functional theory within the plane wave basis set framework. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 3928-3934	3.9	154
35	An efficient orbital transformation method for electronic structure calculations. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 4365-4369	3.9	362
34	The structure of a DMSO-water mixture from Car-Parrinello simulations. <i>Chemical Physics Letters</i> , <b>2002</b> , 364, 497-502	2.5	54
33	Comment on "Dissociation of water under pressure". <i>Physical Review Letters</i> , <b>2002</b> , 89, 199601; author reply 199602	7.4	8
32	Classical polarizable force fields parametrized from ab initio calculations. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 1416-1433	3.9	55
31	Polarized atomic orbitals for linear scaling methods. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 1800-1810	3.9	18
30	Time and Length Scales in ab initio Molecular Dynamics. <i>Lecture Notes in Physics</i> , <b>2002</b> , 413-442	0.8	2
29	Structural and electronic properties of Co-corrole, Co-corrin, and Co-porphyrin. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 11-7	5.1	74
28	Ab initio analysis of proton transfer dynamics in (H <sub>2</sub> O) <sub>3</sub> H <sup>+</sup> . <i>Chemical Physics Letters</i> , <b>2000</b> , 321, 225-230	2.5	50
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