

Michael Dolg

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Density Functional Studies of Coenzyme NADPH and Its Oxidized Form NADP+: Structures, UV-Vis Spectra, and the Oxidation Mechanism of NADPH. <i>Journal of Computational Chemistry</i> , 2020, 41, 305-316.	1.5	13
2	Structures, electronic properties, hydration and UV-vis absorption spectra of actinide motexafins [An-Motex] ₂₊ (An = Ac, Cm, Lr) and [UO ₂ -Motex] ₁₊ : insights from DFT calculations. <i>Molecular Physics</i> , 2020, 118, e1736676.	0.8	1
3	Periodic trends and complexation chemistry of tetravalent actinide ions with a potential actinide decorporation agent $\text{UO}(\text{Me}_2\text{HOPO})$: A relativistic density functional theory exploration. <i>Journal of Computational Chemistry</i> , 2020, 41, 1427-1435.	1.5	13
4	Enhancing Actinide(III) over Lanthanide(III) Selectivity through Hard-by-Soft Donor Substitution: Exploitation and Implication of Near-Degeneracy-Driven Covalency. <i>Inorganic Chemistry</i> , 2019, 58, 9738-9748.	1.9	34
5	An Efficient Hartree-Fock Implementation Based on the Contraction of Integrals in the Primitive Basis. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6197-6210.	2.3	2
6	Photokatalyse der C(sp ³)-H-Fluorierung durch Uranyl mit sichtbarem Licht: Einblicke in den Mechanismus. <i>Angewandte Chemie</i> , 2018, 130, 11986-11990.	1.6	4
7	The Origin of the Photoluminescence Enhancement of Gold-Doped Silver Nanoclusters: The Importance of Relativistic Effects and Heteronuclear Gold-Silver Bonds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9965-9969.	7.2	53
8	Ursache der Photolumineszenzverstärkung in Gold-dotierten Silber-Nanoclustern: Beiträge relativistischer Effekte und heteronuklearer Gold-Silber-Bindungen. <i>Angewandte Chemie</i> , 2018, 130, 10114-10119.	1.6	6
9	Visible-Light Photocatalysis of C(sp ³)-H Fluorination by the Uranyl Ion: Mechanistic Insights. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11812-11816.	7.2	40
10	Energy Resonance Crossing Controls the Photoluminescence of Europium Antenna Probes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7986-7990.	7.2	23
11	The difficult search for organocerium(IV) compounds. <i>Chemical Society Reviews</i> , 2017, 46, 6697-6709.	18.7	50
12	The first water coordination sphere of lanthanide(III) motexafins (Ln-Motex ₂₊ , Ln = La, Gd, Lu) and its effects on structures, reduction potentials and UV-vis absorption spectra. <i>Theoretical studies. Physical Chemistry Chemical Physics</i> , 2017, 19, 20160-20171.	1.3	9
13	Energieresonanzkreuzung steuert die Photolumineszenz von Europium-Antennensonden. <i>Angewandte Chemie</i> , 2017, 129, 8097-8101.	1.6	4
14	Relativistic Effective Core Potentials. , 2017, , 449-478.		7
15	Quantum chemical study of the autoxidation of ascorbate. <i>Journal of Computational Chemistry</i> , 2016, 37, 1914-1923.	1.5	4
16	Assigning the Cerium Oxidation State for CH ₂ CeF ₂ and OCeF ₂ Based on Multireference Wave Function Analysis. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3966-3974.	1.1	6
17	Global optimization of clusters of rigid molecules using the artificial bee colony algorithm. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3003-3010.	1.3	292
18	Regulatory Mechanism of the Enantioselective Intramolecular Enone [2+2] Photocycloaddition Reaction Mediated by a Chiral Lewis Acid Catalyst Containing Heavy Atoms. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14295-14298.	7.2	35

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19	A theoretical study of imine hydrocyanation catalyzed by halogen bonding. <i>Journal of Computational Chemistry</i> , 2015, 36, 1812-1817.	1.5	9
20	Multi-reference character and Ce 4 f orbital contributions in terminal multiple Ce Z bonds of Cp ₂ CeZ (Z = CH ₂ , CH ⁺ , NH, O, F +) complexes. <i>Computational and Theoretical Chemistry</i> , 2015, 1073, 34-44.	1.1	4
21	Labile Capping Bonds in Lanthanide(III) Complexes: Shorter and Weaker. <i>Journal of Physical Chemistry A</i> , 2015, 119, 774-780.	1.1	17
22	Third-Order Incremental Dual-Basis Set Zero-Buffer Approach for Large High-Spin Open-Shell Systems. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 962-968.	2.3	10
23	Cerium oxidation state and covalent 4f-orbital contributions in the ground state of bis(1-8-pentalene)cerium. <i>Journal of Organometallic Chemistry</i> , 2015, 794, 17-22.	0.8	16
24	Accurate quantum chemical modelling of the separation of Eu ³⁺ from Am ³⁺ /Cm ³⁺ by liquid-liquid extraction with Cyanex272. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20605-20616.	1.3	41
25	ABCluster: the artificial bee colony algorithm for cluster global optimization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24173-24181.	1.3	415
26	Relativistic Effective Core Potentials. , 2015, , 1-30.		1
27	Approaching the complete basis set limit of CCSD(T) for large systems by the third-order incremental dual-basis set zero-buffer F12 method. <i>Journal of Chemical Physics</i> , 2014, 140, 044114.	1.2	12
28	Coupled-cluster and DFT studies of the Copernicium dimer including QED effects. <i>Chemical Physics Letters</i> , 2014, 616-617, 222-225.	1.2	10
29	Actinoid(III) Hydration – First Principle Gibbs Energies of Hydration Using High Level Correlation Methods. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5593-5598.	2.3	30
30	Relativistic Small-Core Pseudopotentials for Actinium, Thorium, and Protactinium. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2519-2530.	1.1	60
31	Dispersion Interaction Stabilizes Sterically Hindered Double Fullerenes. <i>Chemistry - A European Journal</i> , 2014, 20, 13909-13912.	1.7	21
32	Misleading evidence for covalent bonding from EuIII and AmIII density functional theory bond lengths. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 194, 8-13.	0.8	26
33	Two interpretations of the cerocene electronic ground state. <i>Chemical Physics Letters</i> , 2014, 594, 47-50.	1.2	46
34	Understanding Lanthanoid(III) Hydration Structure and Kinetics by Insights from Energies and Wave functions. <i>Inorganic Chemistry</i> , 2014, 53, 7700-7708.	1.9	82
35	Third-Order Incremental Dual-Basis Set Zero-Buffer Approach: An Accurate and Efficient Way To Obtain CCSD and CCSD(T) Energies. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2992-3003.	2.3	29
36	Accuracy of relativistic energy-consistent pseudopotentials for superheavy elements 111 – 118: Molecular calibration calculations. <i>Journal of Chemical Physics</i> , 2013, 138, 044104.	1.2	22

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37	Relativistic energy-consistent pseudopotentials for superheavy elements 119 and 120 including quantum electrodynamic effects. <i>Journal of Chemical Physics</i> , 2013, 138, 174113.	1.2	20
38	Photoinduced Gold(I)–Gold(I) Chemical Bonding in Dicyanoaurate Oligomers. <i>Angewandte Chemie</i> , 2013, 125, 10471-10475.	1.6	8
39	Photoinduced Gold(I)–Gold(I) Chemical Bonding in Dicyanoaurate Oligomers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10281-10285.	7.2	39
40	Accurate relativistic energy-consistent pseudopotentials for the superheavy elements 111 to 118 including quantum electrodynamic effects. <i>Journal of Chemical Physics</i> , 2012, 136, 214105.	1.2	53
41	Existence of triply charged actinide-hydride molecules. <i>Physical Review A</i> , 2012, 85, .	1.0	10
42	Efficient quantum chemical valence-only treatments of lanthanide and actinide systems. , 2012, , .		2
43	Relativistic Pseudopotentials: Their Development and Scope of Applications. <i>Chemical Reviews</i> , 2012, 112, 403-480.	23.0	346
44	Syntheses, Crystal Structures and Thermal Behavior of Five New Complexes Containing 2, 4, 6-trifluorobenzoate as Ligand. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 1424-1431.	0.6	14
45	Scalar-relativistic 5f-in-core pseudopotentials and core-polarization potentials for trivalent actinides: calibration calculations for Ac ³⁺ , Cm ³⁺ and Lr ³⁺ complexes. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	1
46	Radical 4-exo Cyclizations via Template Catalysis. <i>Chemistry - A European Journal</i> , 2012, 18, 2591-2599.	1.7	25
47	Segmented Contracted Douglas–Kroll–Hess Adapted Basis Sets for Lanthanides. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3131-3142.	2.3	38
48	Theoretical investigation of thermally and photochemically induced haptotropic rearrangements of chromium ligands on naphthalene systems. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 3861-3866.	0.8	8
49	Pseudopotentials and modelpotentials. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 200-210.	6.2	37
50	Improved valence basis sets for divalent lanthanide 4f-in-core pseudopotentials. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 367-379.	0.5	9
51	Localization scheme for relativistic spinors. <i>Journal of Chemical Physics</i> , 2011, 135, 244101.	1.2	6
52	On basis set superposition error corrected stabilization energies for large <i>n</i> -body clusters. <i>Journal of Chemical Physics</i> , 2011, 135, 134118.	1.2	9
53	Fully Automated Implementation of the Incremental Scheme for Correlation Energies. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 513-525.	1.4	21
54	Quasirelativistic f-in-core pseudopotentials and core-polarization potentials for trivalent actinides and lanthanides: molecular test for trifluorides. <i>Theoretical Chemistry Accounts</i> , 2010, 126, 117-127.	0.5	87

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55	Fully automated incremental evaluation of MP2 and CCSD(T) core, core-valence and valence correlation energies. <i>Chemical Physics</i> , 2010, 376, 36-45.	0.9	11
56	Combined Computational and Experimental Study of Uranyl(VI) 1:2 Complexation by Aromatic Acids. <i>Inorganic Chemistry</i> , 2010, 49, 6428-6435.	1.9	7
57	First-Principles Study of the Separation of Am ^{III} /Cm ^{III} from Eu ^{III} with Cyanex301. <i>Inorganic Chemistry</i> , 2010, 49, 10307-10315.	1.9	119
58	Computational study of lanthanide(III) hydration. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13215.	1.3	96
59	Automated incremental scheme for explicitly correlated methods. <i>Journal of Chemical Physics</i> , 2010, 132, 164114.	1.2	37
60	Relativistic Pseudopotentials. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010, , 215-277.	0.6	23
61	Fully Automated Implementation of the Incremental Scheme for Correlation Energies. , 2010, , 223-235.		0
62	Implementation of the incremental scheme for one-electron first-order properties in coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2009, 131, 154102.	1.2	37
63	A New 5,5-Bitetrazole Thorium(IV) Compound: Synthesis, Crystal Structure and Quantum Chemical Investigation. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2472-2476.	1.0	8
64	On the incremental evaluation of BSSE-free interaction energies. <i>Chemical Physics</i> , 2009, 365, 38-43.	0.9	17
65	Quasirelativistic energy-consistent 4f-in-core pseudopotentials for tetravalent lanthanide elements. <i>Theoretical Chemistry Accounts</i> , 2009, 122, 23-29.	0.5	44
66	Haptotropic migration of M(CO) ₃ (M=Cr, Mo, W) on substituted phenanthrene. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 3338-3342.	0.8	13
67	Evaluation of core and core-valence correlation contributions using the incremental scheme. <i>Chemical Physics</i> , 2009, 356, 47-53.	0.9	20
68	Fully Automated Incremental Evaluation of MP2 and CCSD(T) Energies: Application to Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 287-294.	2.3	109
69	Accurate Relativistic Small-Core Pseudopotentials for Actinides. Energy Adjustment for Uranium and First Applications to Uranium Hydride. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12573-12581.	1.1	96
70	Multiconfiguration Dirac-Hartree-Fock Adjusted Energy-Consistent Pseudopotential for Uranium: Spin-Orbit Configuration Interaction and Fock-Space Coupled-Cluster Study of U ⁴⁺ and U ⁵⁺ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 11509-11516.	1.1	20
71	Energy-consistent pseudopotentials and correlation consistent basis sets for the 5d elements Hf-Pt. <i>Journal of Chemical Physics</i> , 2009, 130, 164108.	1.2	579
72	P-Coligand Tuning of the Haptotropic Metal Migration in Phenanthrene Chromium Complexes. <i>Organometallics</i> , 2009, 28, 3473-3484.	1.1	16

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73	Quasirelativistic energy-consistent 5f-in-core pseudopotentials for pentavalent and hexavalent actinide elements. <i>Theoretical Chemistry Accounts</i> , 2008, 121, 297-306.	0.5	26
74	All-electron Douglas-Kroll-Hess and pseudopotential study on the low-lying states of uranium hydride UH. <i>Chemical Physics</i> , 2008, 343, 250-257.	0.9	17
75	Using symmetry in the framework of the incremental scheme: Molecular applications. <i>Chemical Physics</i> , 2008, 346, 266-274.	0.9	28
76	On the performance of two-component energy-consistent pseudopotentials in atomic Fock-space coupled cluster calculations. <i>Journal of Chemical Physics</i> , 2008, 128, 024106.	1.2	15
77	Complexation of Uranium(VI) with Aromatic Acids in Aqueous Solution: A Combined Computational and Experimental Study. <i>Inorganic Chemistry</i> , 2008, 47, 3150-3157.	1.9	17
78	Energy-consistent small-core pseudopotentials for 3d-transition metals adapted to quantum Monte Carlo calculations. <i>Journal of Chemical Physics</i> , 2008, 129, 164115.	1.2	102
79	Evaluation of Incremental Correlation Energies for Open-Shell Systems: Application to the Intermediates of the 4-Exo Cyclization, Arduengo Carbenes and an Anionic Water Cluster. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8762-8766.	1.1	31
80	Implementation and performance of a domain-specific basis set incremental approach for correlation energies: Applications to hydrocarbons and a glycine oligomer. <i>Journal of Chemical Physics</i> , 2008, 129, 244105.	1.2	57
81	Titanocene Catalyzed 4-exoCyclizations: Mechanism, Experiment, Catalyst Design. <i>Journal of the American Chemical Society</i> , 2008, 130, 1788-1796.	6.6	72
82	Fully automated implementation of the incremental scheme: Application to CCSD energies for hydrocarbons and transition metal compounds. <i>Journal of Chemical Physics</i> , 2007, 126, 154110.	1.2	154
83	Evaluation of electronic correlation contributions for optical tensors of large systems using the incremental scheme. <i>Journal of Chemical Physics</i> , 2007, 127, 084108.	1.2	12
84	Energy-consistent relativistic pseudopotentials and correlation consistent basis sets for the 4d elements Y-Pd. <i>Journal of Chemical Physics</i> , 2007, 126, 124101.	1.2	822
85	Approaching actinide(+III) hydration from first principles. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 459-465.	1.3	94
86	A Quantum Chemical Study of the Haptotropic Rearrangements of Cr(CO) ₃ on Naphthalene and Phenanthrene Systems. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6094-6102.	1.1	35
87	Energy Screening for the Incremental Scheme: Application to Intermolecular Interactions. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9830-9837.	1.1	45
88	Computational investigation of the Bi lone-pairs in monoclinic bismuth triborate BiB ₃ O ₆ . <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 2094.	1.3	20
89	First-principles calculation of vibrational frequencies for monoclinic tribismuth borate BiB ₃ O ₆ . <i>Zeitschrift für Kristallographie</i> , 2007, 222, .	1.1	2
90	Energy-consistent pseudopotentials for quantum Monte Carlo calculations. <i>Journal of Chemical Physics</i> , 2007, 126, 234105.	1.2	305

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91	Error analysis of incremental electron correlation calculations and applications to clusters and potential energy surfaces. <i>Chemical Physics</i> , 2007, 338, 33-43.	0.9	34
92	Quasirelativistic energy-consistent 5f-in-core pseudopotentials for trivalent actinide elements. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 473-481.	0.5	88
93	Quasirelativistic energy-consistent 5f-in-core pseudopotentials for divalent and tetravalent actinide elements. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 845-854.	0.5	78
94	The performance of the Hartree-Fock-Wigner correlation model for light diatomic molecules. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 777-783.	0.5	4
95	Quasirelativistic 5f-in-core pseudopotential study of the actinocenes An(C ₈ H ₈) ₂ , An=Th-Pu. <i>Chemical Physics</i> , 2007, 337, 48-54.	0.9	19
96	Phase stabilities of monoclinic oxoborates LaB ₃ O ₆ and GdB ₃ O ₆ in C121 and I12/a1 phase-Energetics and chemical bonds derived from first-principles calculations. <i>Journal of Solid State Chemistry</i> , 2007, 180, 2763-2774.	1.4	3
97	First-Principles Electronic Structure Study of the Monoclinic Crystal Bismuth Triborate BiB ₃ O ₆ . <i>Journal of Physical Chemistry B</i> , 2006, 110, 19254-19263.	1.2	38
98	Density Functional Theory Studies of Actinide(III) Motexafins (An-Motex ₂₊ , An = Ac, Cm, Lr). Structure, Stability, and Comparison with Lanthanide(III) Motexafins. <i>Inorganic Chemistry</i> , 2006, 45, 3444-3451.	1.9	30
99	Relativistic energy-consistent ab initio pseudopotentials as tools for quantum chemical investigations of actinide systems. <i>Coordination Chemistry Reviews</i> , 2006, 250, 900-910.	9.5	66
100	A quantum chemical ab initio study of the polymerization to polyhydridophosphazenes. <i>Chemical Physics</i> , 2006, 325, 291-298.	0.9	4
101	A PH-Functionalized Polyphosphazene: A Macromolecule with a Highly Flexible Backbone. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3083-3086.	7.2	14
102	Energy-consistent pseudopotentials for group 11 and 12 atoms: adjustment to multi-configuration Dirac-Hartree-Fock data. <i>Chemical Physics</i> , 2005, 311, 227-244.	0.9	854
103	Molecular results for the Hartree-Fock-Wigner model. <i>Chemical Physics Letters</i> , 2005, 413, 237-241.	1.2	6
104	Valence basis sets for lanthanide 4f-in-core pseudopotentials adapted for crystal orbital ab initio calculations. <i>Theoretical Chemistry Accounts</i> , 2005, 113, 212-224.	0.5	121
105	Improved relativistic energy-consistent pseudopotentials for 3d-transition metals. <i>Theoretical Chemistry Accounts</i> , 2005, 114, 297-304.	0.5	39
106	Hermann Stoll. <i>Theoretical Chemistry Accounts</i> , 2005, 114, 253-254.	0.5	0
107	PSEUDOPOTENTIAL STUDIES ON THE ELECTRONIC STRUCTURE OF LANTHANUM MONOHALIDES LaF, LaCl, LaBr, AND LaI. <i>Journal of Theoretical and Computational Chemistry</i> , 2005, 04, 583-592.	1.8	12
108	Bent and planar molecules in polymorphs of the tricyclic carbon sulfide C ₆ S ₈ . <i>New Journal of Chemistry</i> , 2005, 29, 465.	1.4	13

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109	A Combined Theoretical and Experimental Study of Efficient and Fast Titanocene-Catalyzed 3-exoCyclizations. <i>Journal of the American Chemical Society</i> , 2005, 127, 7071-7077.	6.6	73
110	Haptotropic Metal Migration in Densely Substituted Hydroquinoid Phenanthrene Cr(CO) ₃ Complexes. <i>Organometallics</i> , 2005, 24, 3219-3228.	1.1	46
111	Static and dynamic properties of amorphous material derived from zeolite ZSM-5. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1151-1157.	1.5	3
112	Ab initio many-body investigation of structure and stability of two-fold rings in silicates. <i>Journal of Chemical Physics</i> , 2004, 120, 8734-8739.	1.2	12
113	Low-frequency vibrational excitations in zeolite ZSM-5 and its partially crystalline derivatives. <i>Physical Review B</i> , 2004, 69, .	1.1	11
114	THE RELATIVISTIC ENERGY-CONSISTENT AB INITIO PSEUDOPOTENTIAL APPROACH AND ITS APPLICATION TO LANTHANIDE AND ACTINIDE COMPOUNDS. <i>Recent Advances in Computational</i> , 2004, , 1-35.	0.8	16
115	Segmented contraction scheme for small-core actinide pseudopotential basis sets. <i>Computational and Theoretical Chemistry</i> , 2004, 673, 203-209.	1.5	616
116	Molecular Dynamics Investigation of Relaxations in Zeolite ZSM-5 Based Amorphous Material. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16085-16092.	1.2	3
117	Electron affinity of Ce and electronic states of Ce ⁺ . <i>Physical Review A</i> , 2004, 69, .	1.0	18
118	Systematically convergent basis sets with relativistic pseudopotentials. II. Small-core pseudopotentials and correlation consistent basis sets for the post-d group 16–18 elements. <i>Journal of Chemical Physics</i> , 2003, 119, 11113-11123.	1.2	1,855
119	Valence basis sets for relativistic energy-consistent small-core actinide pseudopotentials. <i>Journal of Chemical Physics</i> , 2003, 118, 487-496.	1.2	640
120	Density functional studies on lanthanide (III) texaphyrins (Ln-Tex ₂ ⁺ , Ln = La, Gd, Lu): structure, stability and electronic excitation spectrum. <i>Molecular Physics</i> , 2003, 101, 2427-2435.	0.8	26
121	Theoretical prediction of the second to fourth actinide ionization potentials. <i>Molecular Physics</i> , 2003, 101, 961-969.	0.8	54
122	Electronic structure of lanthanide dimers. <i>Molecular Physics</i> , 2003, 101, 1967-1976.	0.8	44
123	Molecular dynamics investigation of vibrational properties of zeolite ZSM-5-based amorphous material. <i>Physical Review B</i> , 2003, 68, .	1.1	11
124	Molecular dynamics investigation of structural properties of a zeolite ZSM-5 based amorphous material. <i>Physical Review B</i> , 2003, 67, .	1.1	12
125	Calibration of Relativistic Energy-Consistent Small-Core Pseudopotentials for 3d-Transition Metals. <i>Journal of the Chinese Chemical Society</i> , 2003, 50, 583-592.	0.8	4
126	Ab initio many-body calculations on infinite carbon and boron-nitrogen chains. <i>Physical Review B</i> , 2002, 65, .	1.1	73

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127	QUANTUM MONTE CARLO STUDY OF MERCURY CLUSTERS. Recent Advances in Computational, 2002, , 183-202.	0.8	0
128	Molecular structure of diatomic lanthanide compounds. Science in China Series B: Chemistry, 2002, 45, 91.	0.8	37
129	Relativistic energy-consistent pseudopotentials?Recent developments. Journal of Computational Chemistry, 2002, 23, 767-778.	1.5	221
130	Pseudopotential study of lanthanum and lutetium dimers. Theoretical Chemistry Accounts, 2002, 108, 143-149.	0.5	43
131	Segmented contraction scheme for small-core lanthanide pseudopotential basis sets. Computational and Theoretical Chemistry, 2002, 581, 139-147.	1.5	653
132	Electron correlation effects on structural and cohesive properties of closo-hydroborate dianions (BnHn) ²⁻ (n = 5-12) and B ₄ H ₄ . Physical Chemistry Chemical Physics, 2001, 3, 514-522.	1.3	30
133	Valence basis sets for relativistic energy-consistent small-core lanthanide pseudopotentials. Journal of Chemical Physics, 2001, 115, 7348-7355.	1.2	574
134	Combined Pseudopotential and Density Functional Study of Bis-η ⁶ -benzene d and f Element Complexes. Journal of Chemical Information and Computer Sciences, 2001, 41, 18-21.	2.8	30
135	Structures of mercury clusters in a quantum-empirical hybrid model. Physical Chemistry Chemical Physics, 2001, 3, 5121-5129.	1.3	31
136	Theoretische Chemie 2000. Nachrichten Aus Der Chemie, 2001, 49, 337-345.	0.0	0
137	Bi ₄ Te ₄ ⁴⁺ -A Cube-Shaped, Polycationic Main Group Element Cluster. Angewandte Chemie - International Edition, 2001, 40, 2287-2290.	7.2	50
138	On the performance of energy-consistent spin-orbit pseudopotentials: (111)H revisited. Chemical Physics Letters, 2001, 345, 490-496.	1.2	24
139	Basis set limit extrapolation of ACPF and CCSD(T) results for the third and fourth lanthanide ionization potentials. Chemical Physics Letters, 2001, 349, 489-495.	1.2	28
140	A comparison of scalar-relativistic ZORA and DKH density functional schemes: monohydrides, monooxides and monofluorides of La, Lu, Ac and Lr. Chemical Physics Letters, 2001, 334, 396-402.	1.2	67
141	Bi ₄ Te ₄ ⁴⁺ -A Cube-Shaped, Polycationic Main Group Element Cluster This work was supported by the Deutsche Forschungsgemeinschaft and the Fonds der Chemischen Industrie.. Angewandte Chemie - International Edition, 2001, 40, 2287-2290.	7.2	0
142	Performance of relativistic density functional and ab initio pseudopotential approaches for systems with high-spin multiplicities: Gadolinium diatomics GdX (X=H, N, O, F, P, S, Cl, Gd). International Journal of Quantum Chemistry, 2000, 76, 359-370.	1.0	72
143	Scalar-relativistic density functional and ab initio pseudopotential study of zero-valent d and f metal bis-η ⁶ -benzene sandwich complexes M(C ₆ H ₆) ₂ (M = Sc, Ti, Y, Zr, La, Lu, Hf, Th, U). International Journal of Quantum Chemistry, 2000, 80, 201-209.	1.0	31
144	Structural changes induced by an excess electron in small mercury clusters. International Journal of Mass Spectrometry, 2000, 201, 197-204.	0.7	14

#	ARTICLE	IF	CITATIONS
145	Correlated ground-state ab initio calculations of polymethineimine. <i>Chemical Physics</i> , 2000, 257, 301-310.	0.9	13
146	A small-core multiconfiguration Dirac-Hartree-Fock-adjusted pseudopotential for Tl - application to Tl X (X = F, Cl, Br, I). <i>Theoretical Chemistry Accounts</i> , 2000, 104, 22-28.	0.5	138
147	Realistic hybrid model for correlation effects in mercury clusters. <i>Physical Review B</i> , 2000, 61, 2362-2370.	1.1	23
148	Ab initio treatment of electron correlations in polymers: Lithium hydride chain and beryllium hydride polymer. <i>Journal of Chemical Physics</i> , 2000, 112, 4801-4805.	1.2	40
149	Small-core multiconfiguration-Dirac-Hartree-Fock-adjusted pseudopotentials for post-d main group elements: Application to PbH and PbO. <i>Journal of Chemical Physics</i> , 2000, 113, 2563-2569.	1.2	1,009
150	Ab Initio Study of Structure and Bonding of Strontium Clusters. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5558-5567.	1.1	28
151	Ab initio study of structural and cohesive properties of polymers: Polyiminoborane and polyaminoborane. <i>Journal of Chemical Physics</i> , 1999, 110, 8819-8824.	1.2	46
152	Wave-function-based correlated ab initio calculations on crystalline solids. <i>Physical Review B</i> , 1999, 60, 5211-5216.	1.1	73
153	Theoretical confirmation of the stereoselectivity in the reverse Brook rearrangement. <i>Tetrahedron</i> , 1999, 55, 12751-12756.	1.0	26
154	Relativistic ab initio and density functional theory calculations on the mercury fluorides: Is HgF ₄ thermodynamically stable?. <i>Chemical Physics Letters</i> , 1999, 302, 231-239.	1.2	40
155	On the Importance of 5d Orbitals for Covalent Bonding in Ytterbium Clusters. <i>Journal of Physical Chemistry A</i> , 1999, 103, 5091-5098.	1.1	10
156	Ab Initio Study of the Reaction Mechanism of CH ₃ ⁺ and CH ₃ ⁻ with CH ₂ CNa(OH). <i>Journal of Physical Chemistry A</i> , 1999, 103, 3472-3480.	1.1	0
157	Ab Initio Study of Metal-Ring Bonding in the Bis(η ⁶ -benzene)lanthanide and -actinide Complexes M(C ₆ H ₆) ₂ (M = La, Ce, Nd, Gd, Tb, Lu, Th, U). <i>Journal of the American Chemical Society</i> , 1999, 121, 1502-1512.	6.6	59
158	A Hartree-Fock ab initio band-structure calculation employing Wannier-type orbitals. <i>Chemical Physics Letters</i> , 1998, 285, 174-179.	1.2	17
159	A Wannier-function-based ab initio Hartree-Fock study of polyethylene. <i>Chemical Physics Letters</i> , 1998, 294, 126-134.	1.2	8
160	Relativistic and Electron-Correlation Effects in the Ground States of Lanthanocenes and Actinocenes. <i>Chemistry - A European Journal</i> , 1998, 4, 200-204.	1.7	38
161	Charge fluctuations and correlation strength in chemical bonds: First-row homonuclear diatomic molecules. <i>International Journal of Quantum Chemistry</i> , 1998, 67, 157-173.	1.0	5
162	Quantum Monte Carlo study of Be ₂ and group 12 dimers M ₂ (M = Zn, Cd, Hg). <i>Theoretical Chemistry Accounts</i> , 1998, 99, 231-240.	0.5	89

#	ARTICLE	IF	CITATIONS
163	Pseudopotential study of the ground and excited states of Yb 2. Theoretical Chemistry Accounts, 1998, 100, 124-133.	0.5	83
164	Calculated Properties of Lanthanocene Anions and the Unusual Electronic Structure of Their Neutral Counterparts. Inorganic Chemistry, 1998, 37, 1067-1072.	1.9	44
165	Orbital localization and delocalization effects in the U5f2 configuration: Impurity problem. Physical Review B, 1998, 57, 10648-10654.	1.1	13
166	Benchmark calculations for lanthanide atoms: Calibration of ab initio and density-functional methods. Physical Review A, 1998, 57, 1721-1728.	1.0	55
167	Fully relativistic density functional calculations of the ground and excited states of Yb, YbH, YbF, and YbO. Journal of Chemical Physics, 1998, 108, 2886-2895.	1.2	67
168	Ab initio pseudopotential and density-functional all-electron study of ionization and excitation energies of actinide atoms. Physical Review A, 1998, 58, 1103-1110.	1.0	74
169	Towards a quantum-chemical description of crystalline insulators: A Wannier-function-based Hartree-Fock study of Li2O and Na2O. Journal of Chemical Physics, 1998, 108, 8521-8527.	1.2	32
170	Wannier-function-based ab initio Hartree-Fock approach extended to polymers: Applications to the LiH chain and trans-polyacetylene. Physical Review B, 1998, 58, 4325-4334.	1.1	22
171	Obtaining Wannier functions of a crystalline insulator within a Hartree-Fock approach: Applications to LiF and LiCl. Physical Review B, 1998, 57, 1471-1483.	1.1	65
172	Ab initio approach to cohesive properties of GdN. Physical Review B, 1998, 57, 2127-2133.	1.1	46
173	Quantum chemical ab initio calculations of the magnetic interaction in alkaline earth ferrates(III). Journal of Chemical Physics, 1997, 106, 1836-1846.	1.2	39
174	Relativistic configuration-interaction study of valence-electron correlation effects on the fine-structure splitting in the Pb isoelectronic series. Physical Review A, 1997, 55, 3433-3439.	1.0	7
175	Quantum chemical approach to cohesive properties of NiO. Physical Review B, 1997, 55, 10282-10288.	1.1	67
176	Spin-orbit coupling in variational quantum Monte Carlo calculations. Physical Review A, 1997, 55, 4183-4195.	1.0	2
177	Low-lying electronic states of lanthanocenes and actinocenes M(C8H8)2 (M=Nd, Tb, Yb, U). Journal of Chemical Physics, 1997, 107, 3584-3591.	1.2	66
178	Probing the accuracy of pseudopotentials for transition metals in quantum Monte Carlo calculations. Journal of Chemical Physics, 1997, 107, 7951-7959.	1.2	15
179	The chemistry of the superheavy elements. I. Pseudopotentials for 111 and 112 and relativistic coupled cluster calculations for (112)H+, (112)F2, and (112)F4. Journal of Chemical Physics, 1997, 106, 3623-3632.	1.2	132
180	Size dependent properties of Hg _n clusters. Molecular Physics, 1997, 91, 815-826.	0.8	24

#	ARTICLE	IF	CITATIONS
181	Ab Initio Study of the Lanthanide and Actinide Contraction. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7128-7133.	1.1	90
182	An incremental approach for correlation contributions to the structural and cohesive properties of polymers. Coupled-cluster study of trans-polyacetylene. <i>Chemical Physics</i> , 1997, 224, 121-131.	0.9	53
183	The Beijing four-component density functional program package (BDF) and its application to EuO, EuS, YbO and YbS. <i>Theoretical Chemistry Accounts</i> , 1997, 96, 75-83.	0.5	247
184	Covalent contributions to bonding in group 12 dimers M ₂ (Mn = Zn, Cd, Hg). <i>Chemical Physics Letters</i> , 1997, 273, 329-336.	1.2	71
185	Size dependent properties of Hg _n clusters. <i>Molecular Physics</i> , 1997, 91, 815-825.	0.8	9
186	The accuracy of the pseudopotential approximation. II. A comparison of various core sizes for indium pseudopotentials in calculations for spectroscopic constants of InH, InF, and InCl. <i>Journal of Chemical Physics</i> , 1996, 105, 1052-1059.	1.2	505
187	The CeO ₂ +Cation:Â Gas-Phase Reactivity and Electronic Structure. <i>Inorganic Chemistry</i> , 1996, 35, 2463-2475.	1.9	81
188	Calculated Structure and Optical Properties of Ti ₂ Pt(CN) ₄ . <i>Inorganic Chemistry</i> , 1996, 35, 7450-7451.	1.9	45
189	Valence correlation energies from pseudopotential calculations. <i>Chemical Physics Letters</i> , 1996, 250, 75-79.	1.2	39
190	Large relativistic effects in molecular properties of the hydride of superheavy element 111. <i>Chemical Physics Letters</i> , 1996, 250, 461-465.	1.2	62
191	The accuracy of the pseudopotential approximation: non-frozen-core effects for spectroscopic constants of alkali fluorides XF (X = K, Rb, Cs). <i>Chemical Physics Letters</i> , 1996, 255, 274-280.	1.2	289
192	An ab initio embedded-cluster approach to electronic structure calculations on perfect solids: a Hartree-Fock study of lithium hydride. <i>Chemical Physics Letters</i> , 1996, 262, 213-218.	1.2	65
193	Ground State Properties of Hg ₂ . 1. A Pseudopotential Configuration Interaction Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6147-6151.	2.9	75
194	Correlation effects in MgO and CaO: Cohesive energies and lattice constants. <i>Physical Review B</i> , 1996, 54, 13529-13535.	1.1	57
195	On the accuracy of valence correlation energies in pseudopotential calculations. <i>Journal of Chemical Physics</i> , 1996, 104, 4061-4067.	1.2	43
196	Analysis of large-scale multi-configuration self-consistent field wave functions by expectation values of local operators. <i>Journal of Chemical Physics</i> , 1996, 105, 2353-2363.	1.2	21
197	Chapter 152 Electronic structure calculations for molecules containing lanthanide atoms. <i>Fundamental Theories of Physics</i> , 1996, 22, 607-729.	0.1	48
198	Ground State Properties of Hg ₂ . 2. A Quantum Monte Carlo Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6152-6155.	2.9	18

#	ARTICLE	IF	CITATIONS
199	Fully relativistic pseudopotentials for alkaline atoms: Dirac-Hartree-Fock and configuration interaction calculations of alkaline monohydrides. <i>Theoretica Chimica Acta</i> , 1996, 93, 141.	0.9	18
200	Accuracy of energy-adjusted quasirelativistic pseudopotentials: a calibration study of XH and X ₂ (X = Tl, Pb, Bi, Po, At, Rn). <i>Journal of Chemical Physics</i> , 1995, 102, 2050-2062.	0.8	44
201	Formally tetravalent cerium and thorium compounds: a configuration interaction study of cerocene Ce(C ₈ H ₈) ₂ and thorocene Th(C ₈ H ₈) ₂ using energy-adjusted quasirelativistic ab initio pseudopotentials. <i>Chemical Physics</i> , 1995, 195, 71-82.	0.9	129
202	The accuracy of the pseudopotential approximation. I. An analysis of the spectroscopic constants for the electronic ground states of InCl and InCl ₃ using various three valence electron pseudopotentials for indium. <i>Journal of Chemical Physics</i> , 1995, 102, 2050-2062.	1.2	75
203	Correlation effects in ionic crystals: The cohesive energy of MgO. <i>Physical Review B</i> , 1995, 52, 4842-4848.	1.1	85
204	Lanthanide and Actinide Contractions: Relativistic and Shell Structure Effects. <i>Journal of the American Chemical Society</i> , 1995, 117, 6597-6598.	6.6	112
205	Ab initio energy-adjusted pseudopotentials for the noble gases Ne through Xe: Calculation of atomic dipole and quadrupole polarizabilities. <i>Journal of Chemical Physics</i> , 1995, 102, 8942-8952.	1.2	462
206	Can AuF be synthesized? A theoretical study using relativistic configuration interaction and plasma modeling techniques. <i>Chemical Physics Letters</i> , 1994, 218, 362-366.	1.2	54
207	Comment on "Comparison of the widely used HF pseudo-potentials: MH ⁺ (M = Fe, Ru, Os)". <i>Chemical Physics Letters</i> , 1994, 220, 341-344.	1.2	8
208	Oxidation State +IV in Group 12 Chemistry. Ab Initio Study of Zinc(IV), Cadmium(IV), and Mercury(IV) Fluorides. <i>Inorganic Chemistry</i> , 1994, 33, 2122-2131.	1.9	80
209	Energy-adjusted pseudopotentials for the actinides. Parameter sets and test calculations for thorium and thorium monoxide. <i>Journal of Chemical Physics</i> , 1994, 100, 7535-7542.	1.2	1,504
210	On the transferability of energy adjusted pseudopotentials: a calibration study for XH ₄ (X=C, Si, Ge, Sn). <i>Journal of Chemical Physics</i> , 1993, 99, 3614-3616.	0.8	46
211	Comparison of Spectroscopic Constants of OsH from Different ab Initio Calculations. <i>Journal of Molecular Spectroscopy</i> , 1993, 160, 585-589.	0.4	2
212	A combination of quasirelativistic pseudopotential and ligand field calculations for lanthanoid compounds. <i>Theoretica Chimica Acta</i> , 1993, 85, 441-450.	0.9	701
213	The mercury-mercury bond in inorganic and organometallic compounds. A theoretical study. <i>Inorganica Chimica Acta</i> , 1993, 213, 233-246.	1.2	59
214	Ab initio energy-adjusted pseudopotentials for elements of groups 13-17. <i>Molecular Physics</i> , 1993, 80, 1431-1441.	0.8	2,669
215	Accuracy of energy-adjusted quasirelativistic ab initio pseudopotentials. <i>Molecular Physics</i> , 1993, 78, 1211-1224.	0.8	413
216	On the dipole moment of PbO. <i>Journal of Chemical Physics</i> , 1993, 99, 3614-3616.	1.2	17

#	ARTICLE	IF	CITATIONS
217	Relativistic and correlation effects for element 105 (hahnium, Ha): a comparative study of M and MO (M = Nb, Ta, Ha) using energy-adjusted ab initio pseudopotentials. The Journal of Physical Chemistry, 1993, 97, 5852-5859.	2.9	652
218	The equilibrium structures of monomeric Group 2 and lanthanide(II) metallocenes MCp ₂ (M = calcium,) Tj ETQq0 0 0 rgBT /Overlock 10 American Chemical Society, 1992, 114, 8202-8208.	6.6	107
219	Ab initio pseudopotential study of Yb and YbO. Journal of Chemical Physics, 1992, 97, 1162-1173.	1.2	65
220	Low valencies and periodic trends in heavy element chemistry. A theoretical study of relativistic effects and electron correlation effects in Group 13 and Period 6 hydrides and halides. Journal of the American Chemical Society, 1992, 114, 7518-7527.	6.6	201
221	Comment on "spectroscopic constants and potential energy curves of OsH" by M. Benavides-Garcia and K. Balasubramanian. Journal of Molecular Spectroscopy, 1992, 155, 430-432.	0.4	0
222	Homonuclear diatomic lanthanoid compounds: a Pseudopotential configuration interaction and correlation energy density functional study. Computational and Theoretical Chemistry, 1992, 277, 239-249.	1.5	34
223	Ab initio pseudopotential study of YbH and YbF. Chemical Physics, 1992, 165, 21-30.	0.9	41
224	Theoretical studies of chemisorption and dimer model systems: Moeller-Plesset and configuration interaction calculations on palladium hydride (PdH), palladium carbide (PdC), palladium oxide (PdO), palladium fluoride (PdF), palladium dimer, and palladium carbonyl (PdCO). Langmuir, 1991, 7, 116-125.	1.6	34
225	Ab initio pseudopotentials for Hg to Rn. Molecular Physics, 1991, 74, 1265-1285.	0.8	75
226	Ab initio pseudopotentials for Hg through Rn. Molecular Physics, 1991, 74, 1245-1263.	0.8	550
227	Pseudopotential study on rare earth dihalides and trihalides. Computational and Theoretical Chemistry, 1991, 235, 67-79.	1.5	69
228	Helium chemistry of rare earth elements: Pseudopotential study of the cations LnHe ³⁺ . Computational and Theoretical Chemistry, 1991, 251, 327-334.	1.5	9
229	The low-lying electronic states of cerium monoxide CeO: ab initio calculations using energy-adjusted pseudopotentials and spin-orbit operators. Computational and Theoretical Chemistry, 1991, 231, 243-255.	1.5	38
230	"A Novel Triatomic Molecule with a Relativistic Touch. Angewandte Chemie International Edition in English, 1991, 30, 1186-1188.	4.4	11
231	Energy-adjusted ab initio pseudopotentials for the second and third row transition elements: Molecular test for M ₂ (M=Ag, Au) and MH (M=Ru, Os). Theoretica Chimica Acta, 1991, 78, 247-266.	0.9	120
232	Ground state calculations of diacetylene cyclooctatetraene cerium. Journal of Chemical Physics, 1991, 94, 3011-3017.	1.2	168
233	Anomalous high gold-metal bond stabilities: Relativistic configuration-interaction calculations for AuLa and AuLu. Physical Review A, 1991, 43, 1644-1647.	1.0	37
234	Energy-adjusted ab initio pseudopotentials for the second and third row transition elements. Theoretica Chimica Acta, 1990, 77, 123-141.	0.9	7,627

#	ARTICLE	IF	CITATIONS
235	Ab initio pseudopotential study of the $9\hat{1}\hat{2}\hat{3}$ and $7\hat{1}\hat{2}\hat{3}$ states of GdO. Chemical Physics Letters, 1990, 174, 208-212.	1.2	24
236	Ab initio pseudopotential study of europium monoxide EuO: $8\hat{1}\hat{2}\hat{3}$ Ground state and $8\hat{1}\hat{2}\hat{3}$ first excited state. Chemical Physics, 1990, 148, 219-227.	0.9	25
237	Relativistic effects in gold chemistry. I. Diatomic gold compounds. Journal of Chemical Physics, 1989, 91, 1762-1774.	1.2	771
238	Pseudopotential study of the rare earth monohydrides, monoxides and monofluorides. Theoretica Chimica Acta, 1989, 75, 369-387.	0.9	139
239	Energy-adjusted pseudopotentials for the rare earth elements. Theoretica Chimica Acta, 1989, 75, 173-194.	0.9	1,111
240	Energy-adjusted ab initio pseudopotentials for the rare earth elements. Journal of Chemical Physics, 1989, 90, 1730-1734.	1.2	987
241	Comparison of ab initio and semiempirical pseudopotentials for Ca in calculations for CaO. Journal of Chemical Physics, 1987, 86, 6348-6351.	1.2	13
242	Ab initio pseudopotential study of the first row transition metal monoxides and iron monohydride. Journal of Chemical Physics, 1987, 86, 2123-2131.	1.2	177
243	Energy-adjusted ab initio pseudopotentials for the first row transition elements. Journal of Chemical Physics, 1987, 86, 866-872.	1.2	3,104
244	Molecular properties of FeCO as derived from AB initio molecular orbital calculations. Hyperfine Interactions, 1987, 36, 39-58.	0.2	11
245	Model calculations for the adsorption of H on Cu and Ag. Surface Science, 1985, 156, 930-932.	0.8	5
246	Quantum chemical studies of the chemisorption of atomic hydrogen on copper and silver clusters. Surface Science, 1985, 163, 285-302.	0.8	19
247	Cu and Ag as one valence electron atoms: Pseudopotential CI results for CuO and AgO. Journal of Chemical Physics, 1984, 81, 2737-2740.	1.2	45
248	Pseudopotential calculations including core-valence correlation: Alkali and noble-metal compounds. International Journal of Quantum Chemistry, 1984, 26, 725-727.	1.0	6
249	The correlated electron density of alkali atoms: Pseudopotential and density-functional results. Chemical Physics Letters, 1983, 100, 455-460.	1.2	8
250	A combination of pseudopotentials and density functionals: Results for Linum+ and Knm+ clusters (n) Tj ETQq0 0 0, rgBT /Overlock 10 Tf	0.9	64
251	Cu and Ag as one valence electron atoms: Pseudopotential results for Cu ₂ , Ag ₂ , CuH, AgH, and the corresponding cations. Journal of Chemical Physics, 1983, 79, 5532-5542.	1.2	124