List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ethene Conversion at a Zeoliteâ€Supported Ir(I) Complex. A Computational Perspective on a Singleâ€Site Catalyst System. ChemCatChem, 2021, 13, 3421-3433.	1.8	2
2	Probing the Positions of TeO Moieties in the Channels of the MoVNbTeO M1 Catalyst: A Density Functional Theory Model Study. Catalysis Letters, 2021, 151, 2884-2893.	1.4	4
3	The origin of the particle-size-dependent selectivity in 1-butene isomerization and hydrogenation on Pd/Al2O3 catalysts. Nature Communications, 2021, 12, 6098.	5.8	16
4	Configurations of V4+ centers in the MoVO catalyst material. A systematic stability analysis of DFT results. SN Applied Sciences, 2020, 2, 1.	1.5	0
5	How TeO Defects in the MoVNbTeO Catalyst Material Affect the V <sup>4+</sup> Distribution: A Computational Study. Journal of Physical Chemistry C, 2020, 124, 18628-18638.	1.5	5
6	Strain and Low-Coordination Effects on Monolayer Nanoislands of Pd and Pt on Au(111): A Comparative Analysis Based on Density Functional Results. Journal of Physical Chemistry C, 2020, 124, 13225-13230.	1.5	9
7	Modeling the effect of ligands and solvation on hydrolysis variants in the Pd(II)-Catalyzed hydroxycarbonylation of pentenoic acids. Journal of Organometallic Chemistry, 2020, 914, 121221.	0.8	0
8	Hydration Structure and Hydrolysis of U(IV) and Np(IV) Ions: A Comparative Density Functional Study Using a Modified Continuum Solvation Approach. Journal of Physical Chemistry A, 2020, 124, 3805-3814.	1.1	3
9	Mononuclear Hydroxo Carbonato Complexes of Np(V), Np(VI), and U(VI): A Density Functional Study. European Journal of Inorganic Chemistry, 2019, 2019, 4516-4526.	1.0	2
10	C–C coupling at a zeolite-supported Rh( <scp>i</scp> ) complex. DFT search for the mechanism. Catalysis Science and Technology, 2019, 9, 2781-2793.	2.1	8
11	Interdisciplinary Round-Robin Test on Molecular Spectroscopy of the U(VI) Acetate System. ACS Omega, 2019, 4, 8167-8177.	1.6	5
12	Reactivity trends of the MoVO <sub>x</sub> mixed metal oxide catalyst from density functional modeling. Catalysis Science and Technology, 2019, 9, 1559-1569.	2.1	10
13	CO2 reduction by H2 to CHO on Ru(0001): DFT evaluation of three pathways. Surface Science, 2019, 681, 54-58.	0.8	11
14	Ethanol Conversion to Ethylene and Acetaldehyde over Rhodium(I) Exchanged Faujasite Zeolite. A QM/MM and Microkinetic Study. Journal of Physical Chemistry C, 2018, 122, 2783-2795.	1.5	8
15	Modeling Polaron-Coupled Li Cation Diffusion in V <sub>2</sub> O <sub>5</sub> Cathode Material. Journal of Physical Chemistry C, 2018, 122, 150-157.	1.5	26
16	How the distribution of reduced vanadium centers affects structure and stability of the MoVO <sub>x</sub> material. Catalysis Science and Technology, 2018, 8, 2654-2660.	2.1	9
17	Ethene Dimerization and Hydrogenation over a Zeolite-Supported Rh(I)-Carbonyl Complex: Mechanistic Insights from DFT Modeling. ACS Catalysis, 2018, 8, 9836-9846.	5.5	14
18	Catalytic Transformations of 1-Butene over Palladium. A Combined Experimental and Theoretical Study. ACS Catalysis, 2018, 8, 5675-5685.	5.5	14

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19	Acrolein oxidation to acrylic acid over the MoVOx material. Insights from DFT modeling. Applied Catalysis A: General, 2018, 565, 68-75.	2.2	13
20	DFT Variants for Mixed-Metal Oxides. Benchmarks Using Multi-Center Cluster Models. Journal of Physical Chemistry A, 2018, 122, 7042-7050.	1.1	9
21	Modeling the Effect of the Electrolyte on Standard Reduction Potentials of Polyoxometalates. Journal of Physical Chemistry C, 2018, 122, 18545-18553.	1.5	3
22	Quantum chemical modeling of tri-Mn-substituted W-based Keggin polyoxoanions. Electrochimica Acta, 2017, 231, 659-669.	2.6	8
23	Evaluation of density functionals for elementary steps of selective oxidation reactions. Computational and Theoretical Chemistry, 2017, 1101, 36-45.	1.1	11
24	Ethene hydrogenation vs. dimerization over a faujasite-supported [Rh(C <sub>2</sub> H <sub>4</sub> ) <sub>2</sub> ] complex. A computational study of mechanism. Catalysis Science and Technology, 2017, 7, 102-113.	2.1	18
25	Crystal-Chemical Composition of Dicoctahedral Smectites: An Energy-Based Assessment of Empirical Relations. ACS Earth and Space Chemistry, 2017, 1, 629-636.	1.2	6
26	Surface Reactivity of the Vanadium Phosphate Catalyst for the Oxidation of Methane. Topics in Catalysis, 2017, 60, 1698-1708.	1.3	4
27	Palladium-Catalyzed Hydroxycarbonylation of Pentenoic Acids. Computational and Experimental Studies on the Catalytic Selectivity. ACS Catalysis, 2017, 7, 7070-7080.	5.5	27
28	Size-Dependence of the Adsorption Energy of CO on Pt Nanoparticles: Tracing Two Intersecting Trends by DFT Calculations. Journal of Physical Chemistry C, 2017, 121, 17371-17377.	1.5	39
29	Identification of surface species by vibrational normal mode analysis. A DFT study. Surface Science, 2017, 664, 233-240.	0.8	1
30	Carboxylic acid formation by hydroxyl insertion into acyl moieties on late transition metals. Catalysis Science and Technology, 2017, 7, 5365-5375.	2.1	2
31	Transformations of Organic Molecules over Metal Surfaces: Insights from Computational Catalysis. Chemical Record, 2016, 16, 2388-2404.	2.9	14
32	Toward a Reliable Energetics of Adsorption at Solvated Mineral Surfaces: A Computational Study of Uranyl(VI) on 2:1 Clay Minerals. Journal of Physical Chemistry C, 2016, 120, 324-335.	1.5	18
33	Extending the cluster scaling technique to ruthenium clusters with hcp structures. Surface Science, 2016, 643, 156-163.	0.8	10
34	Three-dimensional reference interaction site model solvent combined with a quantum mechanical treatment of the solute. Computational and Theoretical Chemistry, 2015, 1070, 143-151.	1.1	5
35	Hydrogen Adsorption on Small Zeolite-Supported Rhodium Clusters. A Density Functional Study. Journal of Physical Chemistry C, 2015, 119, 1121-1129.	1.5	13
36	Structure and electronic properties of MoVO type mixed-metal oxides – a combined view by experiment and theory. Dalton Transactions, 2015, 44, 13778-13795.	1.6	21

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37	Uranyl Solvation by a Three-Dimensional Reference Interaction Site Model. Journal of Physical Chemistry A, 2015, 119, 8702-8713.	1.1	2
38	Assessment of Hybrid Density Functionals for the Adsorption of Carbon Monoxide on Platinum Model Clusters. Journal of Physical Chemistry A, 2015, 119, 4051-4056.	1.1	16
39	C–O cleavage of aromatic oxygenates over ruthenium catalysts. A computational study of reactions at step sites. Physical Chemistry Chemical Physics, 2015, 17, 15324-15330.	1.3	26
40	Size-dependent properties of transition metal clusters: from molecules to crystals and surfaces – computational studies with the program ParaGauss. Physical Chemistry Chemical Physics, 2015, 17, 28463-28483.	1.3	16
41	Uranyl solvation by a reference interaction site model. Computational and Theoretical Chemistry, 2015, 1051, 151-160.	1.1	5
42	Comment on "First-principles-based embedded atom method for PdAu nanoparticles― Physical Review B, 2014, 89, .	1.1	3
43	Interaction of silica-supported small silver clusters with molecular oxygen. A computational study. Surface Science, 2014, 630, 265-272.	0.8	12
44	The DFT+Umol method and its application to the adsorption of CO on platinum model clusters. Journal of Chemical Physics, 2014, 140, 174709.	1.2	10
45	Predicting adsorption enthalpies on silicalite and HZSMâ€5: A benchmark study on DFT strategies addressing dispersion interactions. Journal of Computational Chemistry, 2014, 35, 809-819.	1.5	31
46	Hydrodeoxygenation of Guaiacol over Ru(0001): A DFT Study. ACS Catalysis, 2014, 4, 4178-4188.	5.5	105
47	Load balancing by work–stealing in quantum chemistry calculations: Application to hybrid density functional methods. International Journal of Quantum Chemistry, 2014, 114, 813-822.	1.0	9
48	Modeling Catalytic Steps on Extra-Framework Metal Centers in Zeolites. A Case Study on Ethylene Dimerization. Journal of Physical Chemistry C, 2014, 118, 25077-25088.	1.5	16
49	DFT cluster model study of MoVO-type mixed-metal oxides. Computational and Theoretical Chemistry, 2014, 1045, 57-65.	1.1	7
50	Monolayer Nanoislands of Pt on Au and Cu: A First-Principles Computational Study. Journal of Physical Chemistry C, 2014, 118, 22102-22110.	1.5	8
51	Hybrid Density Functionals for Clusters of Late Transition Metals: Assessing Energetic and Structural Properties. Journal of Chemical Theory and Computation, 2014, 10, 4408-4416.	2.3	21
52	A DFTÂ+ÂUmol model study of the self-interaction error in standard density functional calculations of Ni(CO) m (mÂ=Â1–4). Theoretical Chemistry Accounts, 2014, 133, .	0.5	2
53	Formation of CO <sub>2</sub> and Ethane from Propionyl over Platinum: A Density Functional Theory Study. ACS Catalysis, 2013, 3, 1730-1738.	5.5	5
54	Scalable properties of metal clusters: A comparative DFT study of ionic-core treatments. Chemical Physics Letters, 2013, 578, 92-96.	1.2	8

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55	Metalâ€Free Polymerization of Phenylsilane: Tris(pentafluorophenyl)boraneâ€Catalyzed Synthesis of Branched Polysilanes at Elevated Temperatures. Chemistry - A European Journal, 2013, 19, 12526-12536.	1.7	28
56	Decomposition of Ethanol Over Ru(0001): A DFT Study. Topics in Catalysis, 2013, 56, 874-884.	1.3	36
57	Structure of Pd/Au Alloy Nanoparticles from a Density Functional Theory-Based Embedded-Atom Potential. Journal of Physical Chemistry C, 2013, 117, 21810-21822.	1.5	22
58	Formation of n-hexane from methylcyclopentane via a metallacyclobutane intermediate at step sites of Pt surfaces: Mechanism from first-principles calculations. Journal of Catalysis, 2013, 299, 146-149.	3.1	10
59	Efficient Two-Step Procedures for Locating Transition States of Surface Reactions. Journal of Chemical Theory and Computation, 2013, 9, 588-599.	2.3	7
60	Activation of Hydrogen Peroxide by Ionic Liquids: Mechanistic Studies and Application in the Epoxidation of Olefins. Chemistry - A European Journal, 2013, 19, 5972-5979.	1.7	47
61	Ring-Opening Reactions of Methylcyclopentane over Metal Catalysts, M = Pt, Rh, Ir, and Pd: A Mechanistic Study from First-Principles Calculations. ACS Catalysis, 2013, 3, 196-205.	5.5	33
62	Formation of Propane in the Aqueousâ€Phase Processing of 1â€Propanol over Platinum: A DFT Study. ChemCatChem, 2013, 5, 3299-3308.	1.8	10
63	Carbon Dioxide Insertion into Diamines: A Computational Study of Solvent Effects. ChemSusChem, 2012, 5, 1967-1973.	3.6	11
64	Theoretical study on the leaching of palladium in a CO atmosphere. Catalysis Science and Technology, 2012, 2, 2238.	2.1	18
65	Reverse hydrogen spillover on and hydrogenation of supported metal clusters: insights from computational model studies. Physical Chemistry Chemical Physics, 2012, 14, 5879.	1.3	18
66	Hydrogen adsorption on and spillover from Au- and Cu-supported Pt3 and Pd3 clusters: a density functional study. Physical Chemistry Chemical Physics, 2012, 14, 16062.	1.3	28
67	Improving Upon String Methods for Transition State Discovery. Journal of Chemical Theory and Computation, 2012, 8, 777-786.	2.3	23
68	Metal-Supported Metal Clusters: A Density Functional Study of Pt <sub>3</sub> and Pd <sub>3</sub> . Journal of Physical Chemistry C, 2012, 116, 10057-10063.	1.5	12
69	Scalable properties of metal clusters: A comparative study of modern exchange-correlation functionals. Journal of Chemical Physics, 2012, 137, 034102.	1.2	20
70	Size Dependence of the Adsorption Energy of CO on Metal Nanoparticles: A DFT Search for the Minimum Value. Nano Letters, 2012, 12, 2134-2139.	4.5	155
71	Structureâ€Ðependence of the magnetic moment in small palladium clusters: Surprising results from the M06â€L Metaâ€GGA functional. International Journal of Quantum Chemistry, 2012, 112, 113-120.	1.0	10
72	Cationic Zinc Species in ZSM-5 Zeolites: Structure and Stability from Embedded Cluster Modeling. Soft Materials, 2012, 10, 216-234.	0.8	3

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73	Uranyl(VI) Complexation by Sulfonate Ligands: A Relativistic Density Functional and Timeâ€Resolved Laserâ€Induced Fluorescence Spectroscopy Study. European Journal of Inorganic Chemistry, 2012, 2012, 3636-3644.	1.0	7
74	Thermal Decomposition of Branched Silanes: A Computational Study on Mechanisms. Chemistry - A European Journal, 2012, 18, 9106-9116.	1.7	10
75	Tuning the selectivity for ring-opening reactions of methylcyclopentane over Pt catalysts: A mechanistic study from first-principles calculations. Journal of Catalysis, 2012, 285, 124-133.	3.1	38
76	Ethylene conversion to ethylidyne on Pd(111) and Pt(111): A first-principles-based kinetic Monte Carlo study. Journal of Catalysis, 2012, 285, 187-195.	3.1	66
77	Comment on "Towards understanding the bifunctional hydrodeoxygenation and aqueous phase reforming of glycerol―[J. Catal. 269 (2010) 411–420]. Journal of Catalysis, 2012, 287, 210-213.	3.1	13
78	DFT Studies of Palladium Model Catalysts: Structure and Size Effects. Journal of Cluster Science, 2011, 22, 433-448.	1.7	39
79	Impurity Atoms on Small Transition Metal Clusters. Insights from Density Functional Model Studies. Topics in Catalysis, 2011, 54, 363-377.	1.3	8
80	Self-interaction artifacts on structural features of uranyl monohydroxide from Kohn–Sham calculations. Theoretical Chemistry Accounts, 2011, 130, 361-369.	0.5	5
81	Uranyl complexation by monodentate nitrogen donor ligands. A relativistic density functional study. International Journal of Quantum Chemistry, 2011, 111, 2045-2053.	1.0	4
82	Effects of the self-interaction error in Kohn–Sham calculations: A DFT+U case study on penta-aqua uranyl(VI). Computational and Theoretical Chemistry, 2011, 963, 337-343.	1.1	12
83	Decomposition of ethylene on transition metal surfaces M(111). A comparative DFT study of model reactions for M=Pd, Pt, Rh, Ni. Journal of Molecular Catalysis A, 2011, 344, 37-46.	4.8	52
84	Ternary uranyl hydroxo acetate complexes: A computational study of structure, energetics, and stability constants. Inorganica Chimica Acta, 2010, 363, 263-269.	1.2	11
85	Small silver clusters at paramagnetic defects of silica surfaces. Surface Science, 2010, 604, 1705-1712.	0.8	8
86	Small gold species at hydroxylated alumina surfaces. A computational study using embedded-cluster models of î±-Al2O3(0001). Chemical Physics Letters, 2010, 494, 243-248.	1.2	3
87	Small gold species supported on alumina. A computational study of <i>α</i> â€Al <sub>2</sub> O <sub>3</sub> (0001) and γâ€Al <sub>2</sub> O <sub>3</sub> (001) using an embeddedâ€eluster approach. Physica Status Solidi (B): Basic Research, 2010, 247, 1023-1031.	0.7	10
88	Variational fitting methods for electronic structure calculations. Molecular Physics, 2010, 108, 3167-3180.	0.8	89
89	Comparative density functional study of the complexes [UO2(CO3)3]4â^' and [(UO2)3(CO3)6]6â^' in aqueous solution. Dalton Transactions, 2010, 39, 5705.	1.6	15
90	Transformations of Ethylene on the Pd(111) Surface: A Density Functional Study. Journal of Physical Chemistry C, 2010, 114, 17683-17692.	1.5	47

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91	Ethylidyne Formation from Ethylene over Pt(111): A Mechanistic Study from First-Principle Calculations. Journal of Physical Chemistry C, 2010, 114, 12190-12201.	1.5	77
92	Saturation of Small Supported Metal Clusters by Adsorbed Hydrogen. A Computational Study on Tetrahedral Models of Rh <sub>4</sub> , Ir <sub>4</sub> , and Pt <sub>4</sub> . Journal of Physical Chemistry C, 2010, 114, 8500-8506.	1.5	27
93	Redox behavior of small metal clusters with respect to hydrogen. The effect of the cluster charge from density functional results. Physical Chemistry Chemical Physics, 2010, 12, 11015.	1.3	6
94	Particle-size dependent heats of adsorption of CO on supported Pd nanoparticles as measured with a single-crystal microcalorimeter. Physical Review B, 2010, 81, .	1.1	77
95	Role of aliphatic and phenolic hydroxyl groups in uranyl complexation by humic substances. Inorganica Chimica Acta, 2009, 362, 2542-2550.	1.2	14
96	The DFT+U method in the linear combination of Gaussian-type orbitals framework: Role of 4f orbitals in the bonding of LuF3. Chemical Physics Letters, 2009, 468, 158-161.	1.2	20
97	Mechanism of Selective Hydrogenation of α,β-Unsaturated Aldehydes on Silver Catalysts: A Density Functional Study. Journal of Physical Chemistry C, 2009, 113, 13231-13240.	1.5	47
98	Ethylene Conversion to Ethylidyne over Pd(111): Revisiting the Mechanism with First-Principles Calculations. Journal of Physical Chemistry C, 2009, 113, 2512-2520.	1.5	56
99	Theoretical study of carbon species on Pd(111): competition between migration of C atoms to the subsurface interlayer and formation of Cn clusters on the surface. Physical Chemistry Chemical Physics, 2009, 11, 10955.	1.3	27
100	Ethylidyne Formation from Ethylene over Pd(111): Alternative Routes from a Density Functional Study. Journal of Physical Chemistry C, 2009, 113, 15373-15379.	1.5	29
101	Uranyl monocarboxylates of aromatic acids: A density functional model study of uranyl humate complexation. Dalton Transactions, 2009, , 3590.	1.6	22
102	Electronic and Geometric Structure of the Cluster Compound Au <sub>55</sub> [P(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> ] <sub>12</sub> C <sub>I</sub> 6. A Computational Study. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 1246-1258.	0.3	8
103	Density functional study of Ni6 clusters containing impurity atoms. Chemical Physics, 2008, 348, 61-68.	0.9	10
104	Size-Dependence of Adsorption Properties of Metal Nanoparticles: A Density Functional Study on Palladium Nanoclusters. Journal of Physical Chemistry C, 2008, 112, 20269-20275.	1.5	86
105	Hydrogen Activation on Silver:  A Computational Study on Surface and Subsurface Oxygen Species. Journal of Physical Chemistry C, 2008, 112, 1628-1635.	1.5	44
106	How the Câ^'O Bond Breaks during Methanol Decomposition on Nanocrystallites of Palladium Catalysts. Journal of the American Chemical Society, 2008, 130, 9342-9352.	6.6	77
107	Hydrogen Adsorption on Zeolite-Supported Tetrairidium Clusters. Thermodynamic Modeling from Density Functional Calculations. Journal of Physical Chemistry C, 2008, 112, 18572-18577.	1.5	18
108	Atomic approximation to the projection on electronic states in the Douglas-Kroll-Hess approach to the relativistic Kohn-Sham method. Journal of Chemical Physics, 2008, 128, 244102.	1.2	22

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109	Impurity Effects on Small Pd Clusters: A Relativistic Density Functional Study of Pd4X, X = H, C, O. Journal of Physical Chemistry A, 2008, 112, 7739-7744.	1.1	12
110	CO Coordination at XNi <sub>4</sub> Clusters with Impurities X = H, C, O. A Density Functional Study. Journal of Physical Chemistry A, 2008, 112, 8523-8528.	1.1	3
111	Reverse Hydrogen Spillover onto Zeolite-Supported Metal Clusters:  An Embedded Cluster Density Functional Study of Models M <sub>6</sub> (M = Rh, Ir, or Au). Journal of Physical Chemistry C, 2007, 111, 12340-12351.	1.5	57
112	A computational study of H2dissociation on silver surfaces: The effect of oxygen in the added row structure of Ag(110). Physical Chemistry Chemical Physics, 2007, 9, 1247-1254.	1.3	43
113	Influence of Single Impurity Atoms on the Structure, Electronic, and Magnetic Properties of Ni5 Clusters. Journal of Physical Chemistry A, 2007, 111, 2067-2076.	1.1	10
114	Density Functional Study of Hydrogen Adsorption on Tetrairidium Supported on Hydroxylated and Dehydroxylated Zeolite Surfaces. Journal of Physical Chemistry C, 2007, 111, 14484-14492.	1.5	25
115	First Hybrid Embedding Scheme for Polar Covalent Materials Using an Extended Border Region To Minimize Boundary Effects on the Quantum Region. Journal of Chemical Theory and Computation, 2007, 3, 2290-2300.	2.3	21
116	Density Functional Embedded Cluster Study of Cu4, Ag4and Au4Species Interacting with Oxygen Vacancies on the MgO(001) Surface. Chemistry - A European Journal, 2007, 13, 277-286.	1.7	22
117	Modeling metal adsorption at amorphous silica: Gold atoms and dimers as example. Chemical Physics Letters, 2007, 444, 280-286.	1.2	22
118	Density functional modeling of reverse hydrogen spillover on zeolite-supported tetrairidium clusters. Chemical Physics Letters, 2007, 444, 215-219.	1.2	30
119	Linear response formalism for the Douglas–Kroll–Hess approach to the Dirac–Kohn–Sham problem: First―and secondâ€order nuclear displacement derivatives of the energy. International Journal of Quantum Chemistry, 2007, 107, 3236-3249.	1.0	27
120	A Density Functional Study of Uranyl Monocarboxylates. Inorganic Chemistry, 2006, 45, 1480-1490.	1.9	51
121	C–O bond scission of methoxide on Pd nanoparticles: A density functional study. Physical Chemistry Chemical Physics, 2006, 8, 2396-2401.	1.3	24
122	Two hydrogen ligands on tetrairidium clusters: a relativistic density functional study. Physical Chemistry Chemical Physics, 2006, 8, 3391-3398.	1.3	19
123	The heat of formation of gaseous PuO22+from relativistic density functional calculations. Physical Chemistry Chemical Physics, 2006, 8, 3767-3773.	1.3	13
124	Structure, stability, electronic and magnetic properties of Ni4 clusters containing impurity atoms. Physical Chemistry Chemical Physics, 2006, 8, 1282.	1.3	21
125	Systematic DFT Study of Gas Phase and Solvated Uranyl and Neptunyl Complexes [AnO2X4]n(An = U, Np;) Tj E <sup>-</sup>	[Qq1_1 0.7 	784314 rgBT 41
126	The IMOMM (Integrated Molecular Orbitals/Molecular Mechanics) Approach for Ligand-Stabilized Metal Clusters. Comparison to Full Density Functional Calculations for the Model Thiolate Cluster Cu13(SCH2CH3)8. Journal of Chemical Theory and Computation, 2006, 2, 47-58.	2.3	11

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127	Adsorption of Cu4, Ag4 and Au4 particles on the regular MgO(001) surface: A density functional study using embedded cluster models. Chemical Physics Letters, 2006, 417, 515-520.	1.2	33
128	Adsorption of acrolein on single-crystal surfaces of silver: Density functional studies. Chemical Physics Letters, 2006, 420, 60-64.	1.2	25
129	Adsorption of dimers and trimers of Cu, Ag, and Au on regular sites and oxygen vacancies of the MgO(001) surface: a density functional study using embedded cluster models. Applied Physics A: Materials Science and Processing, 2006, 82, 181-189.	1.1	52
130	The Heat of Formation of the Uranyl Dication: Theoretical Evaluation Based on Relativistic Density Functional Calculations. Chemistry - A European Journal, 2006, 12, 629-634.	1.7	17
131	Adsorption of carbon on Pd clusters of nanometer size: A first-principles theoretical study. Journal of Chemical Physics, 2005, 122, 174705.	1.2	33
132	The cluster Ir4 and its interaction with a hydrogen impurity. A density functional study. Physical Chemistry Chemical Physics, 2005, 7, 2656.	1.3	36
133	Reverse hydrogen spillover in supported subnanosize clusters of the metals of groups 8 to 11. A computational model study. Physical Chemistry Chemical Physics, 2005, 7, 4019.	1.3	51
134	Gold Atoms and Dimers on Amorphous SiO2:Â Calculation of Optical Properties and Cavity Ringdown Spectroscopy Measurements. Journal of Physical Chemistry B, 2005, 109, 19876-19884.	1.2	47
135	Effects of the Aluminum Content of a Zeolite Framework:  A DFT/MM Hybrid Approach Based on Cluster Models Embedded in an Elastic Polarizable Environment. Journal of Chemical Theory and Computation, 2005, 1, 459-471.	2.3	36
136	Optical Absorption Spectrum of Gold Atoms Deposited onSiO2from Cavity Ringdown Spectroscopy. Physical Review Letters, 2005, 94, 213402.	2.9	80
137	Quantum chemistry with the Douglas-Kroll-Hess approach to relativistic density functional theory: Efficient methods for molecules and materials. Theoretical and Computational Chemistry, 2004, 14, 656-722.	0.2	32
138	Efficient symmetry treatment for the nonrelativistic and relativistic molecular Kohn–Sham problem. The symmetry module of the program ParaGauss. Computer Physics Communications, 2004, 160, 91-119.	3.0	18
139	Role of Solvation in the Reduction of the Uranyl Dication by Water:Â A Density Functional Study. Inorganic Chemistry, 2004, 43, 4080-4090.	1.9	65
140	Theoretical Investigation of the Coordination of N2Ligands to the Cluster Ni3. Journal of Physical Chemistry A, 2004, 108, 6127-6144.	1.1	7
141	Free and Zeolite-Supported Hexarhodium Clusters with Light Impurity Atoms. Journal of Physical Chemistry B, 2004, 108, 180-192.	1.2	26
142	Density functional study of Pd nanoparticles with subsurface impurities of light element atoms. Physical Chemistry Chemical Physics, 2004, 6, 116-123.	1.3	105
143	Computational Study of Model Pdâ^'Zn Nanoclusters and Their Adsorption Complexes with CO Molecules. Journal of Physical Chemistry B, 2004, 108, 5424-5430.	1.2	59
144	Olefin Epoxidation with Inorganic Peroxides. Solutions to Four Long-Standing Controversies on the Mechanism of Oxygen Transfer. Accounts of Chemical Research, 2004, 37, 645-652.	7.6	142

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145	Gold-Thiolate Clusters: A Relativistic Density Functional Study of the Model Species Au <sub>13</sub> (SR) <sub>n</sub> , R = H, CH <sub>3</sub> , n = 4, 6, 8. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2004, 59, 1585-1599.	0.3	5
146	CO Adsorption on Pd Nanoparticles:Â Density Functional and Vibrational Spectroscopy Studies. Journal of Physical Chemistry B, 2003, 107, 255-264.	1.2	262
147	Spin–orbit interaction in the Douglas–Kroll approach to relativistic density functional theory: the screened nuclear potential approximation for molecules. Chemical Physics Letters, 2003, 382, 186-193.	1.2	23
148	Relativistic Density Functional Study of the Dinuclear Uranyl Complex [(UO2)2(μ2-OH)2Cl2(H2O)4] in Its Crystalline Environment. European Journal of Inorganic Chemistry, 2003, 2003, 3144-3151.	1.0	5
149	Oxidation of Supported Rhodium Clusters by Support Hydroxy Groups. Angewandte Chemie - International Edition, 2003, 42, 1391-1394.	7.2	107
150	Site preference of CO chemisorbed on Pt(111) from density functional calculations. Surface Science, 2003, 530, 71-87.	0.8	155
151	Elastic Polarizable Environment Cluster Embedding Approach for Covalent Oxides and Zeolites Based on a Density Functional Method. Journal of Physical Chemistry B, 2003, 107, 2228-2241.	1.2	73
152	Metal nanoparticles as models of single crystal surfaces and supported catalysts: Density functional study of size effects for CO/Pd(111). Journal of Chemical Physics, 2002, 117, 9887-9896.	1.2	144
153	Mechanism of Olefin Epoxidation by Transition Metal Peroxo Compounds. Catalysis By Metal Complexes, 2002, , 289-324.	0.6	10
154	Fragment charge difference method for estimating donor–acceptor electronic coupling: Application to DNA π-stacks. Journal of Chemical Physics, 2002, 117, 5607-5616.	1.2	294
155	Comparative study of relativistic density functional methods applied to actinide species AcO22+and AcF6for Ac = U, Np. Journal of Computational Chemistry, 2002, 23, 834-846.	1.5	67
156	Density functional embedded cluster calculations on Lewis acid centers of the α-Al2O3(0001) surface: Adsorption of a CO probe. International Journal of Quantum Chemistry, 2002, 90, 386-402.	1.0	19
157	The hydration of the uranyl dication: Incorporation of solvent effects in parallel density functional calculations with the program PARAGAUSS. International Journal of Quantum Chemistry, 2002, 86, 487-501.	1.0	47
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