

Henrik Grønbeck

List of Publications by Year in descending order

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222
docs citations

222
times ranked

9666
citing authors

#	ARTICLE	IF	CITATIONS
1	Can oxygen vacancies in ceria surfaces be measured by O1s photoemission spectroscopy?. Journal of Physics Condensed Matter, 2022, 34, 174004.	0.7	11
2	Surface steps dominate the water formation on Pd(111) surfaces. Journal of Chemical Physics, 2022, 156, 064701.	1.2	8
3	Tunable Ti ³⁺ -Mediated Charge Carrier Dynamics of Atomic Layer Deposition-Grown Amorphous TiO ₂ . Journal of Physical Chemistry C, 2022, 126, 4542-4554.	1.5	25
4	Probing the role of grain boundaries in single Cu nanoparticle oxidation by <i>in situ</i> plasmonic scattering. Physical Review Materials, 2022, 6, .	0.9	4
5	<i>In situ</i> DRIFT studies on N ₂ O formation over Cu-functionalized zeolites during ammonia-SCR. Catalysis Science and Technology, 2022, 12, 3921-3936.	2.1	4
6	Interplay between CO Disproportionation and Oxidation: On the Origin of the CO Reaction Onset on Atomic Layer Deposition-Grown Pt/ZrO ₂ Model Catalysts. ACS Catalysis, 2021, 11, 208-214.	5.5	27
7	On the signatures of oxygen vacancies in O1s core level shifts. Surface Science, 2021, 705, 121761.	0.8	27
8	Role of hydroxylation for the atomic structure of a non-polar vicinal zinc oxide. Communications Chemistry, 2021, 4, .	2.0	6
9	On the Reaction Mechanism of Direct H ₂ O ₂ Formation over Pd Catalysts. ACS Catalysis, 2021, 11, 2735-2745.	5.5	50
10	The Role of H ⁺ - and Cu ⁺ -Sites for N ₂ O Formation during NH ₃ -SCR over Cu-CHA. Journal of Physical Chemistry C, 2021, 125, 4595-4601.	1.5	28
11	Real-time imaging of Na ⁺ reversible intercalation in α -Janus-graphene stacks for battery applications. Science Advances, 2021, 7, .	4.7	61
12	Resolving multifrequential oscillations and nanoscale interfacet communication in single-particle catalysis. Science, 2021, 372, 1314-1318.	6.0	22
13	Direct measurement of enthalpy and entropy changes in NH ₃ promoted O ₂ activation over Cu ⁺ CHA at low temperature. ChemCatChem, 2021, 13, 2577-2582.	1.8	11
14	Complete Reaction Cycle for Methane-to-Methanol Conversion over Cu-SSZ-13: First-Principles Calculations and Microkinetic Modeling. Journal of Physical Chemistry C, 2021, 125, 14681-14688.	1.5	10
15	A First-Principles-Based Microkinetic Study of CO ₂ Reduction to CH ₃ OH over In ₂ O ₃ (110). ACS Catalysis, 2021, 11, 9996-10006.	5.5	19
16	Single-Particle Catalysis: Revealing Intraparticle Pacemakers in Catalytic H ₂ Oxidation on Rh. ACS Catalysis, 2021, 11, 10020-10027.	5.5	9
17	Reduced Carbon Monoxide Saturation Coverage on Vicinal Palladium Surfaces: the Importance of the Adsorption Site. Journal of Physical Chemistry Letters, 2021, 12, 9508-9515.	2.1	3
18	Reaction Mechanism for Methane-to-Methanol in Cu-SSZ-13: First-Principles Study of the Z2[Cu2O] and Z2[Cu2OH] Motifs. Catalysts, 2021, 11, 17.	1.6	2

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19	Coexisting multi-states in catalytic hydrogen oxidation on rhodium. Nature Communications, 2021, 12, 6517.	5.8	5
20	First-Principles Microkinetic Model for Low-Temperature NH ₃ -Assisted Selective Catalytic Reduction of NO over Cu-CHA. ACS Catalysis, 2021, 11, 14395-14407.	5.5	25
21	Unraveling the Surface Chemistry and Structure in Highly Active Sputtered Pt ₃ Y Catalyst Films for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2020, 12, 4454-4462.	4.0	16
22	Structure-Dependent Strain Effects. ChemPhysChem, 2020, 21, 2407-2410.	1.0	11
23	Thermal Stability of Single-Crystalline IrO ₂ (110) Layers: Spectroscopic and Adsorption Studies. Journal of Physical Chemistry C, 2020, 124, 15324-15336.	1.5	22
24	Sensitivity of Monte Carlo Simulations to Linear Scaling Relations. Journal of Physical Chemistry C, 2020, 124, 11952-11959.	1.5	5
25	Structure of two-dimensional Fe ₃ O ₄ . Journal of Chemical Physics, 2020, 152, 114705.	1.2	10
26	Hydrogen adsorption on In ₂ O ₃ (111) and In ₂ O ₃ (110). Physical Chemistry Chemical Physics, 2020, 22, 16193-16202.	1.3	21
27	A Complete Multisite Reaction Mechanism for Low-Temperature NH ₃ -SCR over Cu-CHA. ACS Catalysis, 2020, 10, 5646-5656.	5.5	118
28	Stability, magnetic order, and electronic properties of ultrathin Fe ₃ O ₄ nanosheets. Physical Review B, 2020, 101, .	1.1	3
29	Perspectives on Computational Catalysis for Metal Nanoparticles. ACS Catalysis, 2019, 9, 8872-8881.	5.5	34
30	CO ₂ adsorption on hydroxylated In ₂ O ₃ (110). Physical Chemistry Chemical Physics, 2019, 21, 21698-21708.	1.3	23
31	First-Principles Study of Oxidation State and Coordination of Cu-Dimers in Cu-SSZ-13 during Methane-to-Methanol Reaction Conditions. Journal of Physical Chemistry C, 2019, 123, 26145-26150.	1.5	17
32	Strain Affects CO Oxidation on Metallic Nanoparticles Non-linearly. Topics in Catalysis, 2019, 62, 660-668.	1.3	9
33	Oxygen Adsorption on Graphene-Encapsulated Palladium Nanoparticles Imaged by Kelvin Probe Force Microscopy. Journal of Physical Chemistry C, 2019, 123, 24615-24625.	1.5	6
34	A dimer path for CO dissociation on PtSn. Catalysis Science and Technology, 2019, 9, 695-701.	2.1	9
35	Revealing Carbon Phenomena at Palladium Nanoparticles by Analyzing the Work Function. Journal of Physical Chemistry C, 2019, 123, 4360-4370.	1.5	15
36	Initial Fe ₃ O ₄ (100) Formation on Fe(100). Journal of Physical Chemistry C, 2019, 123, 16317-16325.	1.5	8

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37	Selective Acetylene Hydrogenation over Single-Atom Alloy Nanoparticles by Kinetic Monte Carlo. <i>Journal of the American Chemical Society</i> , 2019, 141, 8541-8549.	6.6	63
38	A comparative test of different density functionals for calculations of NH ₃ -SCR over Cu-Chabazite. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10923-10930.	1.3	40
39	Multiscale reactor modelling of total pressure effects on complete methane oxidation over Pd/Al ₂ O ₃ . <i>Catalysis Science and Technology</i> , 2019, 9, 3055-3065.	2.1	3
40	Surface-Structure Libraries: Multifrequential Oscillations in Catalytic Hydrogen Oxidation on Rhodium. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4217-4227.	1.5	18
41	Correlation between Ethylene Adsorption Energies and Core-Level Shifts for Pd Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2544-2548.	1.5	3
42	Interpretation of NH ₃ -TPD Profiles from Cu-CHA Using First-Principles Calculations. <i>Topics in Catalysis</i> , 2019, 62, 93-99.	1.3	60
43	Fuel Cell Measurements with Cathode Catalysts of Sputtered Pt ₃ Y Thin Films. <i>ChemSusChem</i> , 2018, 11, 1438-1445.	3.6	14
44	The Site Assembly Determines Catalytic Activity of Nanoparticles. <i>Angewandte Chemie</i> , 2018, 130, 5180-5183.	1.6	4
45	The Site Assembly Determines Catalytic Activity of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5086-5089.	7.2	49
46	Electrooxidation of Glycerol on Gold in Acidic Medium: A Combined Experimental and DFT Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10489-10494.	1.5	32
47	Se ¹³⁷ C Cleavage of Hexane Selenol at Steps on Au(111). <i>Langmuir</i> , 2018, 34, 2630-2636.	1.6	2
48	Adsorption of NO on Fe ₃ O ₄ (111). <i>Chemical Physics Letters</i> , 2018, 693, 84-87.	1.2	21
49	Visualizing catalyst heterogeneity by a multifrequential oscillating reaction. <i>Nature Communications</i> , 2018, 9, 600.	5.8	31
50	A Chemical View on X-ray Photoelectron Spectroscopy: the ESCA Molecule and Surface to Bulk XPS Shifts. <i>ChemPhysChem</i> , 2018, 19, 169-174.	1.0	24
51	Activation of oxygen on (NH ₃ Cu NH ₃) ⁺ in NH ₃ -SCR over Cu-CHA. <i>Journal of Catalysis</i> , 2018, 358, 179-186.	3.1	91
52	Fuel Cell Measurements with Cathode Catalysts of Sputtered Pt ₃ Y Thin Films. <i>ChemSusChem</i> , 2018, 11, 1394-1394.	3.6	0
53	Oxygen step-response experiments for methane oxidation over Pd/Al ₂ O ₃ : An in situ XAFS study. <i>Catalysis Communications</i> , 2018, 109, 24-27.	1.6	14
54	Tight-Binding Approximation-Enhanced Global Optimization. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2797-2807.	2.3	31

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55	Effect of Al-distribution on oxygen activation over Cu ²⁺ /CHA. <i>Catalysis Science and Technology</i> , 2018, 8, 2131-2136.	2.1	47
56	The Influence of Inert Ions on the Reactivity of Manganese Oxides. <i>Journal of Physical Chemistry C</i> , 2018, 122, 216-226.	1.5	11
57	Modelling complete methane oxidation over palladium oxide in a porous catalyst using first-principles surface kinetics. <i>Catalysis Science and Technology</i> , 2018, 8, 508-520.	2.1	17
58	Extracting Local Quantitative Atomic-resolution Strain Information from High-precision STEM Data of Supported Nanocatalysts. <i>Microscopy and Microanalysis</i> , 2018, 24, 52-53.	0.2	0
59	MonteCoffee: A programmable kinetic Monte Carlo framework. <i>Journal of Chemical Physics</i> , 2018, 149, 114101.	1.2	26
60	CO Oxidation at SnO ₂ /Pt ₃ Sn(111) Interfaces. <i>Topics in Catalysis</i> , 2018, 61, 1458-1464.	1.3	4
61	Steps Control the Dissociation of CO ₂ on Cu(100). <i>Journal of the American Chemical Society</i> , 2018, 140, 12974-12979.	6.6	70
62	Initial oxidation of Cu(100) studied by X-ray photo-electron spectroscopy and density functional theory calculations. <i>Surface Science</i> , 2018, 675, 64-69.	0.8	17
63	Thin water films and particle morphology evolution in nanocrystalline MgO. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4994-5003.	1.9	18
64	Understanding the Intrinsic Surface Reactivity of Single-Layer and Multilayer PdO(101) on Pd(100). <i>ACS Catalysis</i> , 2018, 8, 8553-8567.	5.5	38
65	Influence of atomic site-specific strain on catalytic activity of supported nanoparticles. <i>Nature Communications</i> , 2018, 9, 2722.	5.8	102
66	Monte Carlo Potential Energy Sampling for Molecular Entropy in Zeolites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20351-20357.	1.5	27
67	First Principles Calculations of Palladium Nanoparticle XANES Spectra. <i>Topics in Catalysis</i> , 2017, 60, 283-288.	1.3	28
68	Metal dimer sites in ZSM-5 zeolite for methane-to-methanol conversion from first-principles kinetic modelling: is the [Cu ²⁺ ...O ²⁻ ...Cu] ²⁺ motif relevant for Ni, Co, Fe, Ag, and Au?. <i>Catalysis Science and Technology</i> , 2017, 7, 1470-1477.	2.1	56
69	Cluster Size Effects in Ethylene Hydrogenation over Palladium. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10870-10875.	1.5	15
70	High Specific and Mass Activity for the Oxygen Reduction Reaction for Thin Film Catalysts of Sputtered Pt ₃ Y. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700311.	1.9	39
71	Scaling Relations and Kinetic Monte Carlo Simulations To Bridge the Materials Gap in Heterogeneous Catalysis. <i>ACS Catalysis</i> , 2017, 7, 5054-5061.	5.5	74
72	2D ⁺ 3D structural transition in sub-nanometer Pt _N clusters supported on CeO ₂ (111). <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17845-17855.	1.3	26

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73	Three-Dimensional Probing of Catalyst Ageing on Different Length Scales: A Case Study of Changes in Microstructure and Activity for CO Oxidation of a Pt ₂ O ₃ Catalyst. ChemCatChem, 2017, 9, 3544-3553.	1.8	2
74	Adsorbate Entropies with Complete Potential Energy Sampling in Microkinetic Modeling. Journal of Physical Chemistry C, 2017, 121, 7199-7207.	1.5	70
75	Adsorbate Pairing on Oxide Surfaces: Influence on Reactivity and Dependence on Oxide, Adsorbate Pair, and Density Functional. Journal of Physical Chemistry C, 2017, 121, 8390-8398.	1.5	12
76	Catalysis at the Rim: A Mechanism for Low Temperature CO Oxidation over Pt ₃ Sn. ACS Catalysis, 2017, 7, 7431-7441.	5.5	32
77	Fuel Cells: High Specific and Mass Activity for the Oxygen Reduction Reaction for Thin Film Catalysts of Sputtered Pt ₃ Y (Adv. Mater. Interfaces 13/2017). Advanced Materials Interfaces, 2017, 4, .	1.9	0
78	Connection between macroscopic kinetic measurables and the degree of rate control. Catalysis Science and Technology, 2017, 7, 4034-4040.	2.1	14
79	Methane oxidation over Pd/Al ₂ O ₃ under rich/lean cycling followed by operando XAFS and modulation excitation spectroscopy. Journal of Catalysis, 2017, 356, 237-245.	3.1	48
80	Fe Oxides on Ag Surfaces: Structure and Reactivity. Topics in Catalysis, 2017, 60, 492-502.	1.3	10
81	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. ACS Catalysis, 2017, 7, 110-114.	5.5	36
82	Correspondence: On the bonding in ligand-protected gold clusters. Nature Communications, 2017, 8, 1612.	5.8	4
83	Tuning the Reactivity of Ultrathin Oxides: NO Adsorption on Monolayer FeO(111). Angewandte Chemie, 2016, 128, 9413-9417.	1.6	2
84	Mechanism for Solid-State Ion Exchange of Cu ⁺ into Zeolites. Journal of Physical Chemistry C, 2016, 120, 29182-29189.	1.5	33
85	Reversed Hysteresis during CO Oxidation over Pd ₇₅ Ag ₂₅ (100). ACS Catalysis, 2016, 6, 4154-4161.	5.5	31
86	Kinetic Regimes in Ethylene Hydrogenation over Transition-Metal Surfaces. ACS Catalysis, 2016, 6, 3277-3286.	5.5	43
87	Plasmonic Nanospectroscopy of Platinum Catalyst Nanoparticle Sintering in a Mesoporous Alumina Support. ACS Nano, 2016, 10, 5063-5069.	7.3	18
88	Tuning the Reactivity of Ultrathin Oxides: NO Adsorption on Monolayer FeO(111). Angewandte Chemie - International Edition, 2016, 55, 9267-9271.	7.2	16
89	First-Principles Microkinetic Modeling of Methane Oxidation over Pd(100) and Pd(111). ACS Catalysis, 2016, 6, 6730-6738.	5.5	88
90	Understanding the Phase Diagram of Self-Assembled Monolayers of Alkanethiolates on Gold. Journal of Physical Chemistry C, 2016, 120, 12059-12067.	1.5	27

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91	Pt Nanoparticle Sintering and Redispersion on a Heterogeneous Nanostructured Support. Journal of Physical Chemistry C, 2016, 120, 14918-14925.	1.5	16
92	Methyl crotonate hydrogenation over Pt: Effects of support and metal dispersion. Applied Catalysis A: General, 2016, 511, 106-116.	2.2	6
93	TiO _x thin films grown on Pd(100) and Pd(111) by chemical vapor deposition. Surface Science, 2016, 649, 80-89.	0.8	12
94	Structural and Energetic Trends of Ethylene Hydrogenation over Transition Metal Surfaces. Journal of Physical Chemistry C, 2016, 120, 995-1003.	1.5	39
95	Insights on proximity effect and multiphoton induced luminescence from gold nanospheres in far field optical microscopy. Applied Physics Letters, 2015, 107, 234101.	1.5	11
96	Revealing local variations in nanoparticle size distributions in supported catalysts: a generic TEM specimen preparation method. Journal of Microscopy, 2015, 260, 125-132.	0.8	8
97	Transient Bimodal Particle Size Distributions during Pt Sintering on Alumina and Silica. Journal of Physical Chemistry C, 2015, 119, 989-996.	1.5	36
98	Size Effects in MgO Cube Dissolution. Langmuir, 2015, 31, 2770-2776.	1.6	49
99	Chemistry of Supported Palladium Nanoparticles during Methane Oxidation. ACS Catalysis, 2015, 5, 2481-2489.	5.5	98
100	NO _x Adsorption on ATiO ₃ (001) Perovskite Surfaces. Journal of Physical Chemistry C, 2015, 119, 18495-18503.	1.5	11
101	Trends in adsorbate induced core level shifts. Surface Science, 2015, 640, 59-64.	0.8	21
102	Electro-oxidation of water on hematite: Effects of surface termination and oxygen vacancies investigated by first-principles. Surface Science, 2015, 640, 45-49.	0.8	43
103	Methane Oxidation over PdO(101) Revealed by First-Principles Kinetic Modeling. Journal of the American Chemical Society, 2015, 137, 12035-12044.	6.6	104
104	Oxidation at the Subnanometer Scale. Journal of Physical Chemistry C, 2015, 119, 10797-10803.	1.5	14
105	In Situ Plasmonic Sensing of Platinum Model Catalyst Sintering on Different Oxide Supports and in O ₂ and NO ₂ Atmospheres with Different Concentrations. ACS Catalysis, 2015, 5, 426-432.	5.5	18
106	Selectivity and kinetics of methyl crotonate hydrogenation over Pt/Al ₂ O ₃ . Catalysis Science and Technology, 2015, 5, 1716-1730.	2.1	14
107	Effects of non-local exchange on core level shifts for gas-phase and adsorbed molecules. Journal of Chemical Physics, 2014, 141, 034706.	1.2	29
108	Activity of Platinum/Carbon and Palladium/Carbon Catalysts Promoted by Ni ₂ P in Direct Ethanol Fuel Cells. ChemSusChem, 2014, 7, 3374-3381.	3.6	37

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109	Metal-oxide sites for facile methane dissociation. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 605-609.	1.2	6
110	CO Adsorption on Clean and Oxidized Pd(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 1118-1128.	1.5	69
111	Analysis of Porphyrines as Catalysts for Electrochemical Reduction of O_2 and Oxidation of H_2O . <i>Journal of the American Chemical Society</i> , 2014, 136, 1320-1326.	6.6	124
112	Toward a Silver-Alumina Model System for NO_x Reduction Catalysis. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24556-24561.	1.5	3
113	Catalytic hydrogenation of C=C and C=O in unsaturated fatty acid methyl esters. <i>Catalysis Science and Technology</i> , 2014, 4, 2427-2444.	2.1	52
114	Mechanism for Limiting Thickness of Thin Oxide Films on Aluminum. <i>Physical Review Letters</i> , 2014, 112, 146103.	2.9	74
115	Anchoring of Pt and PtRu to carbon nanofibers studied by density functional theory calculations. <i>Carbon</i> , 2014, 77, 880-885.	5.4	6
116	Intrinsic Ligand Effect Governing the Catalytic Activity of Pd Oxide Thin Films. <i>ACS Catalysis</i> , 2014, 4, 3330-3334.	5.5	79
117	High-Coverage Oxygen-Induced Surface Structures on Ag(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 15324-15331.	1.5	46
118	Methane oxidation over Pd and Pt studied by DFT and kinetic modeling. <i>Surface Science</i> , 2013, 616, 206-213.	0.8	87
119	Water desorption from nanostructured graphite surfaces. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20456.	1.3	16
120	H_2 dissociation over Ag/Al_2O_3 : the first step in hydrogen assisted selective catalytic reduction of NO_x . <i>Catalysis Science and Technology</i> , 2013, 3, 183-190.	2.1	21
121	Facile NO_x interconversion over preoxidized Ag(111). <i>Surface Science</i> , 2013, 617, 167-174.	0.8	5
122	Methane Oxidation Over Pd Supported on Ceria-Alumina Under Rich/Lean Cycling Conditions. <i>Topics in Catalysis</i> , 2013, 56, 410-415.	1.3	26
123	Efficient hydrogenation over single-site bimetallic RuSn clusters. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9694.	1.3	15
124	Dissociative Adsorption of Hydrogen on PdO(101) Studied by HRCLS and DFT. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13510-13519.	1.5	25
125	Generation and oxidation of aerosol deposited PdAg nanoparticles. <i>Surface Science</i> , 2013, 616, 186-191.	0.8	10
126	Mechanism for reversed photoemission core-level shifts of oxidized Ag. <i>Physical Review B</i> , 2012, 85, .	1.1	34

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127	Study of Alkylthiolate Self-assembled Monolayers on Au(111) Using a Semilocal meta-GGA Density Functional. Journal of Physical Chemistry C, 2012, 116, 7374-7379.	1.5	43
128	Simulated Photoemission Spectra of Hydroxylated MgO(100) at Elevated Temperatures. Journal of Physical Chemistry C, 2012, 116, 3545-3551.	1.5	15
129	Surface composition of clean and oxidized Pd ₇₅ Ag ₂₅ (100) from photoelectron spectroscopy and density functional theory calculations. Surface Science, 2012, 606, 1777-1782.	0.8	34
130	Local Catalytic Ignition during CO Oxidation on Low-index Pt and Pd Surfaces: A Combined PEEM, MS, and DFT Study. Angewandte Chemie - International Edition, 2012, 51, 10041-10044.	7.2	85
131	The Active Phase of Palladium during Methane Oxidation. Journal of Physical Chemistry Letters, 2012, 3, 678-682.	2.1	183
132	The bonding in thiolate protected gold nanoparticles from Au _{4f} photoemission core level shifts. Nanoscale, 2012, 4, 4178.	2.8	16
133	Phase Separation at the Nanoscale: Structural Properties of BaO Segregates on MgO-Based Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 15853-15861.	1.5	26
134	Effect of lattice strain on hydrogen diffusion in Pd: A density functional theory study. Physical Review B, 2011, 84, .	1.1	35
135	CO Oxidation on Technological Pd ₂ O ₃ Catalysts: Oxidation State and Activity. Journal of Physical Chemistry C, 2011, 115, 1103-1111.	1.5	129
136	The Al ₅₀ Cp* ₁₂ Cluster - A 138-Electron Closed Shell (L = 6) Superatom. European Journal of Inorganic Chemistry, 2011, 2011, 2649-2652.	1.0	41
137	Oxidation and reduction of Pd(100) and aerosol-deposited Pd nanoparticles. Physical Review B, 2011, 83, .	1.1	79
138	Carbonate formation on $p < \frac{1}{4} \tilde{A} - \frac{1}{20} \tilde{m} >$ Physical Review B, 2011, 84, .		
139	Evidence of superatom electronic shells in ligand-stabilized aluminum clusters. Journal of Chemical Physics, 2011, 135, 094701.	1.2	42
140	Exceptionally Active Single-Site Nanocluster Multifunctional Catalysts for Cascade Reactions. ChemCatChem, 2010, 2, 402-406.	1.8	19
141	Photoemission core-level shifts reveal the thiolate-Au(111) interface. Physical Review B, 2010, 82, .	1.1	20
142	Theoretical Characterization of Cyclic Thiolated Copper, Silver, and Gold Clusters. Journal of Physical Chemistry C, 2010, 114, 13571-13576.	1.5	51
143	Oxidation of Small Silver Clusters: A Density Functional Theory Study. Journal of Physical Chemistry C, 2010, 114, 12610-12617.	1.5	55
144	Thiolate-Protected Au ₂₅ Superatoms as Building Blocks: Dimers and Crystals. Journal of Physical Chemistry C, 2010, 114, 15986-15994.	1.5	109

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145	Thiolate Induced Reconstruction of Au(111) and Cu(111) Investigated by Density Functional Theory Calculations. Journal of Physical Chemistry C, 2010, 114, 15973-15978.	1.5	38
146	Water Dissociation on MgO/Ag(100): Support Induced Stabilization or Electron Pairing?. Journal of Physical Chemistry C, 2010, 114, 7070-7075.	1.5	34
147	Corrosion Induced Degradation of Pt/C Model Electrodes Measured with Electrochemical Quartz Crystal Microbalance. Journal of the Electrochemical Society, 2010, 157, B592.	1.3	39
148	Experimental and theoretical characterization of NO _x species on Ag/Al ₂ O ₃ . Journal of Molecular Catalysis A, 2009, 314, 102-109.	4.8	22
149	SO _x storage and release kinetics for ceria-supported platinum. Applied Catalysis B: Environmental, 2009, 91, 679-682.	10.8	13
150	Low Temperature CO Oxidation over Supported Ultrathin MgO Films. Journal of the American Chemical Society, 2009, 131, 16636-16637.	6.6	121
151	Characterization of Iron-Carbonyl-Protected Gold Clusters. Journal of the American Chemical Society, 2009, 131, 12573-12575.	6.6	17
152	First-Principles Studies of NO _x Chemistry on Ag _n /Al ₂ O ₃ . Journal of Physical Chemistry C, 2009, 113, 3674-3682.	1.5	35
153	Structure and Bonding in the Ubiquitous Icosahedral Metallic Gold Cluster Au ₁₄₄ (SR) ₆₀ . Journal of Physical Chemistry C, 2009, 113, 5035-5038.	1.5	393
154	Regenerable ceria-based SO _x traps for sulfur removal in lean exhausts. Applied Catalysis B: Environmental, 2008, 84, 268-276.	10.8	49
155	Identifying surface species by vibrational spectroscopy: Bridging vs monodentate nitrates. Journal of Catalysis, 2008, 255, 127-133.	3.1	52
156	Gold-Thiolate Complexes Form a Unique (4 Å ⁻²) Structure on Au(111). Journal of Physical Chemistry C, 2008, 112, 15940-15942.	1.5	125
157	Activation of Al_2O_3 by a Long-Ranged Chemical Bond Mechanism. Physical Review Letters, 2008, 100, 116801.	2.9	31
158	On the Structure of Thiolate-Protected Au ₂₅ . Journal of the American Chemical Society, 2008, 130, 3756-3757.	6.6	682
159	Synthesis, characterization, electronic structure and catalytic performance of bimetallic and trimetallic nanoparticles containing tin. Faraday Discussions, 2008, 138, 301-315.	1.6	62
160	A unified view of ligand-protected gold clusters as superatom complexes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9157-9162.	3.3	1,472
161	NO ₂ dissociation on Ag(111) revisited by theory. Journal of Chemical Physics, 2008, 128, 104704.	1.2	16
162	Ab initio molecular dynamics calculations of H_2O on BaO(001). Physical Review B, 2008, 77, .	1.1	21

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