Anatoly Frenkel

List of Publications by Year
in descending order

397 papers	25,162 citations	5574 82 h-index	9345 143 g-index
409 all docs	409 docs citations	409 times ranked	26744 citing authors

#	Article	IF	Citations
1	Understanding the phase-change mechanism of rewritable optical media. Nature Materials, 2004, 3, 703-708.	27.5	1,193
2	Hydrogenâ€Evolution Catalysts Based on Nonâ€Noble Metal Nickelâ€“Molybdenum Nitride Nanosheets. Angewandte Chemie - International Edition, 2012, 51, 6131-6135.	13.8	1,174
3	Ternary Pt/Rh/SnO2 electrocatalysts for oxidizing ethanol to CO2. Nature Materials, 2009, 8, 325-330.	27.5	728
4	A View from the Inside:â€‰ Complexity in the Atomic Scale Ordering of Supported Metal Nanoparticles. Journal of Physical Chemistry B, 2001, 105, 12689-12703.	2.6	601
5	Nanoporous Copperâ€“Silver Alloys by Additive-Controlled Electrodeposition for the Selective Electroreduction of CO₂ to Ethylene and Ethanol. Journal of the American Chemical Society, 2018, 140, 5791-5797.	13.7	599
6	Insights into the Interplay of Lewis and BrÃ¸nsted Acid Catalysts in Glucose and Fructose Conversion to 5-(Hydroxymethyl)furfural and Levulinic Acid in Aqueous Media. Journal of the American Chemical Society, 2013, 135, 3997-4006.	13.7	586
7	Reduction of CuO and Cu2O with H2: H Embedding and Kinetic Effects in the Formation of Suboxides. Journal of the American Chemical Society, 2003, 125, 10684-10692.	13.7	490
8	Spectroscopic Characterization of Mixed Feâ€“Ni Oxide Electrocatalysts for the Oxygen Evolution Reaction in Alkaline Electrolytes. ACS Catalysis, 2012, 2, 1793-1801.	11.2	423
9	Shape-Dependent Catalytic Properties of Pt Nanoparticles. Journal of the American Chemical Society, 2010, 132, 15714-15719.	13.7	387
10	Experimental and Theoretical Studies on the Reaction of H2 with NiO:â€‰ Role of O Vacancies and Mechanism for Oxide Reduction. Journal of the American Chemical Society, 2002, 124, 346-354.	13.7	322
11	Structural Characterization of Carbon-Supported Platinumâˆ'Ruthenium Nanoparticles from the Molecular Cluster Precursor PtRu5C(CO)16. Journal of the American Chemical Society, 1997, 119, 7760-7771.	13.7	310
12	A review of defect structure and chemistry in ceria and its solid solutions. Chemical Society Reviews, 2020, 49, 554-592.	38.1	298
13	Selective CO₂ Reduction Catalyzed by Single Cobalt Sites on Carbon Nitride under Visible-Light Irradiation. Journal of the American Chemical Society, 2018, 140, 16042-16047.	13.7	296
14	Correlating Particle Size and Shape of Supported Ru/Î³-Al₂O₃ Catalysts with NH₃ Decomposition Activity. Journal of the American Chemical Society, 2009, 131, 12230-12239.	13.7	279
15	Applications of extended X-ray absorption fine-structure spectroscopy to studies of bimetallic nanoparticle catalysts. Chemical Society Reviews, 2012, 41, 8163.	38.1	262
16	Identification of carbon-encapsulated iron nanoparticles as active species in non-precious metal oxygen reduction catalysts. Nature Communications, 2016, 7, 12582.	12.8	261
17	Catalysis on singly dispersed bimetallic sites. Nature Communications, 2015, 6, 7938.	12.8	235
18	Reduction of CuO in H2: In Situ Time-Resolved XRD Studies. Catalysis Letters, 2003, 85, 247-254.	2.6	228

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19	Structural and Architectural Evaluation of Bimetallic Nanoparticles: A Case Study of Ptâˆ'Ru Coreâˆ'Shell and Alloy Nanoparticles. ACS Nano, 2009, 3, 3127-3137.	14.6	222
20	Core Shell Inversion during Nucleation and Growth of Bimetallic Pt/Ru Nanoparticles. Journal of the American Chemical Society, 1998, 120, 8093-8101.	13.7	215
21	Thermal expansion and x-ray-absorption fine-structure cumulants. Physical Review B, 1993, 48, 585-588.	3.2	213
22	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. Nature Communications, 2018, 9, 1231.	12.8	213
23	Supervised Machine-Learning-Based Determination of Three-Dimensional Structure of Metallic Nanoparticles. Journal of Physical Chemistry Letters, 2017, 8, 5091-5098.	4.6	206
24	Time-resolved Studies for the Mechanism of Reduction of Copper Oxides with Carbon Monoxide:Â Complex Behavior of Lattice Oxygen and the Formation of Suboxides. Journal of Physical Chemistry B, 2004, 108, 13667-13673.	2.6	187
25	Evidence for a terminal Pt(iv)-oxo complex exhibiting diverse reactivity. Nature, 2008, 455, 1093-1096.	27.8	187
26	Chitosan and chitosanâ€"ZnO-based complex nanoparticles: formation, characterization, and antibacterial activity. Journal of Materials Chemistry B, 2013, 1, 1968.	5.8	187
27	Platinum-Tin Oxide Coreâ€"Shell Catalysts for Efficient Electro-Oxidation of Ethanol. Journal of the American Chemical Society, 2014, 136, 10862-10865.	13.7	180
28	Lowâ€Temperature Transformation of Methane to Methanol on Pd₁O₄ Single Sites Anchored on the Internal Surface of Microporous Silicate. Angewandte Chemie - International Edition, 2016, 55, 13441-13445.	13.8	180
29	In Situ Probes of Capture and Decomposition of Chemical Warfare Agent Simulants by Zr-Based Metal Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 599-602.	13.7	169
30	Highly Active Iridium/Iridiumâ€"Tin/Tin Oxide Heterogeneous Nanoparticles as Alternative Electrocatalysts for the Ethanol Oxidation Reaction. Journal of the American Chemical Society, 2011, 133, 15172-15183.	13.7	167
31	Carbon Support Effects on Bimetallic Ptâˆ'Ru Nanoparticles Formed from Molecular Precursors. Langmuir, 1999, 15, 690-700.	3.5	166
32	PtMo Alloy and MoO_{<i>x</i>}@Pt Coreâˆ'Shell Nanoparticles as Highly CO-Tolerant Electrocatalysts. Journal of the American Chemical Society, 2009, 131, 6924-6925.	13.7	163
33	WGS Catalysis and In Situ Studies of CoO_{1â€"<i>x</i>}, PtCo_{<i>n</i>}/Co₃O₄, and Pt_{<i>m</i>}Co_{<i>m</i>â€²}/CoO_{1â€"<i>x</i>} Nanorod Catalysts. Journal of the American Chemical Society, 2013, 135, 8283-8293.	13.7	161
34	Nanoscale Disorder in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaCu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Ti</mml:mi><mml:r mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:math>: A New Route to the Enhanced Dielectric Response. Physical Review Letters, 2007, 99, 037602.	7.8	159
35	Modeling the Structure and Composition of Nanoparticles by Extended X-Ray Absorption Fine-Structure Spectroscopy. Annual Review of Analytical Chemistry, 2011, 4, 23-39.	5.4	156
36	Catalysis and In Situ Studies of Rh₁/Co₃O₄ Nanorods in Reduction of NO with H₂. ACS Catalysis, 2013, 3, 1011-1019.	11.2	150

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37	Structural Rearrangement of Bimetallic Alloy PdAu Nanoparticles within Dendrimer Templates to Yield Core/Shell Configurations. Chemistry of Materials, 2008, 20, 1019-1028.	6.7	149
38	Formation of Pd/Au Nanostructures from Pd Nanowires via Galvanic Replacement Reaction. Journal of the American Chemical Society, 2008, 130, 1093-1101.	13.7	146
39	The Emergence of Nonbulk Properties in Supported Metal Clusters: Negative Thermal Expansion and Atomic Disorder in Pt Nanoclusters Supported on Î³-Al₂O₃. Journal of the American Chemical Society, 2009, 131, 7040-7054.	13.7	145
40	Highâ€Temperature Treatment of Liâ€Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. Advanced Energy Materials, 2017, 7, 1700708.	19.5	139
41	Reaction-Relevant Gold Structures in the Low Temperature Water-Gas Shift Reaction on Au-CeO₂. Journal of Physical Chemistry C, 2008, 112, 12834-12840.	3.1	135
42	Synthesis and Characterization of Pt Dendrimer-Encapsulated Nanoparticles: Effect of the Template on Nanoparticle Formation. Chemistry of Materials, 2008, 20, 5218-5228.	6.7	135
43	In Situ Characterization of CuFe₂O₄ and Cu/Fe₃O₄ Waterâ˜Gas Shift Catalysts. Journal of Physical Chemistry C, 2009, 113, 14411-14417.	3.1	133
44	Unusual Non-Bulk Properties in Nanoscale Materials:Â Thermal Metalâ˜Metal Bond Contraction of Î³-Alumina-Supported Pt Catalysts. Journal of the American Chemical Society, 2006, 128, 12068-12069.	13.7	131
45	Intraparticle Reduction of Arsenite (As(III)) by Nanoscale Zerovalent Iron (nZVI) Investigated with In Situ X-ray Absorption Spectroscopy. Environmental Science & Technology, 2012, 46, 7018-7026.	10.0	127
46	Solving the 3D structure of metal nanoparticles. Zeitschrift Fur Kristallographie - Crystalline Materials, 2007, 222, 605-611.	0.8	125
47	How Strain Affects the Reactivity of Surface Metal Oxide Catalysts. Angewandte Chemie - International Edition, 2013, 52, 13553-13557.	13.8	124
48	A New Klebsiella planticola Strain (Cd-1) Grows Anaerobically at High Cadmium Concentrations and Precipitates Cadmium Sulfide. Applied and Environmental Microbiology, 2000, 66, 3083-3087.	3.1	123
49	Integration of the polyphenol and Maillard reactions into a unified abiotic pathway for humification in nature. Organic Geochemistry, 2004, 35, 747-762.	1.8	122
50	EXAFS Study of the Inner Shell Structure in Copper(II) Complexes with Humic Substances. Environmental Science & Technology, 1998, 32, 2699-2705.	10.0	120
51	Mechanism and Kinetics for Reaction of the Chemical Warfare Agent Simulant, DMMP(<i>g</i>), with Zirconium(IV) MOFs: An Ultrahigh-Vacuum and DFT Study. Journal of Physical Chemistry C, 2017, 121, 11261-11272.	3.1	120
52	Complex structural dynamics of nanocatalysts revealed in Operando conditions by correlated imaging and spectroscopy probes. Nature Communications, 2015, 6, 7583.	12.8	118
53	Elimination of self-absorption in fluorescence hard-x-ray absorption spectra. Physical Review B, 1999, 60, 9335-9339.	3.2	117
54	Size-controlled synthesis and characterization of thiol-stabilized gold nanoparticles. Journal of Chemical Physics, 2005, 123, 184701.	3.0	116

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55	Dopant location identification inNd3+-dopedTiO2nanoparticles. Physical Review B, 2005, 72, .	3.2	112
56	Active site electronic structure and dynamics during metalloenzyme catalysis. Nature Structural Biology, 2003, 10, 98-103.	9.7	109
57	Sub-Nanometer Au Monolayer-Protected Clusters Exhibiting Molecule-like Electronic Behavior:Â Quantitative High-Angle Annular Dark-Field Scanning Transmission Electron Microscopy and Electrochemical Characterization of Clusters with Precise Atomic Stoichiometry. Journal of Physical Chemistry B, 2006, 110, 12874-12883.	2.6	107
58	Evolution of the Structure and Chemical State of Pd Nanoparticles during the in Situ Catalytic Reduction of NO with H₂. Journal of the American Chemical Society, 2011, 133, 13455-13464.	13.7	107
59	Synchrotron Techniques for In Situ Catalytic Studies: Capabilities, Challenges, and Opportunities. ACS Catalysis, 2012, 2, 2269-2280.	11.2	107
60	Controlling Speciation during CO₂ Reduction on Cu-Alloy Electrodes. ACS Catalysis, 2020, 10, 672-682.	11.2	107
61	Catalysis and Photocatalysis by Nanoscale Au/TiO₂: Perspectives for Renewable Energy. ACS Energy Letters, 2017, 2, 1223-1231.	17.4	105
62	â€œInvertingâ€• X-ray Absorption Spectra of Catalysts by Machine Learning in Search for Activity Descriptors. ACS Catalysis, 2019, 9, 10192-10211.	11.2	105
63	Solving the structure of nanoparticles by multiple-scattering EXAFS analysis. Journal of Synchrotron Radiation, 1999, 6, 293-295.	2.4	103
64	Dynamic structure of active sites in ceria-supported Pt catalysts for the water gas shift reaction. Nature Communications, 2021, 12, 914.	12.8	103
65	High-Performance Nitrogen-Doped Intermetallic PtNi Catalyst for the Oxygen Reduction Reaction. ACS Catalysis, 2020, 10, 10637-10645.	11.2	98
66	Understanding the Role of Minor Molybdenum Doping in LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂ Electrodes: from Structural and Surface Analyses and Theoretical Modeling to Practical Electrochemical Cells. ACS Applied Materials & Interfaces, 2018, 10, 29608-29621.	8.0	97
67	Crystallographic Recognition Controls Peptide Binding for Bio-Based Nanomaterials. Journal of the American Chemical Society, 2011, 133, 12346-12349.	13.7	96
68	Elucidation of Peptide-Directed Palladium Surface Structure for Biologically Tunable Nanocatalysts. ACS Nano, 2015, 9, 5082-5092.	14.6	96
69	Giant Electrostriction in Gdâ€Ðoped Ceria. Advanced Materials, 2012, 24, 5857-5861.	21.0	95
70	Characterization of Palladium Nanoparticles by Using X-ray Reflectivity, EXAFS, and Electron Microscopy. Langmuir, 2006, 22, 807-816.	3.5	93
71	Reduction of Nitric Oxide with Hydrogen on Catalysts of Singly Dispersed Bimetallic Sites Pt₁Co_{<i>m</i>} and Pd₁Co_{<i>n</i>}. ACS Catalysis, 2016, 6, 840-850.	11.2	93
72	Combining X-ray Absorption and X-ray Diffraction Techniques for in Situ Studies of Chemical Transformations in Heterogeneous Catalysis: Advantages and Limitations. Journal of Physical Chemistry C, 2011, 115, 17884-17890.	3.1	92

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73	XANES Study of Cu2+-Binding Sites in Aquatic Humic Substances. Environmental Science & Technology, 2000, 34, 2138-2142.	10.0	91
74	Electronic and Magnetic Properties of Ultrathin Au/Pt Nanowires. Nano Letters, 2009, 9, 3177-3184.	9.1	91
75	Strain energy density in the x-ray powder diffraction from mixed crystals and alloys. Journal of Physics Condensed Matter, 2000, 12, 8081-8088.	1.8	89
76	Solving the Structure of Size-Selected Pt Nanocatalysts Synthesized by Inverse Micelle Encapsulation. Journal of the American Chemical Society, 2010, 132, 8747-8756.	13.7	89
77	Conversion of Methane to Methanol with a Bent Mono(Î¼-oxo)dinickel Anchored on the Internal Surfaces of Micropores. Langmuir, 2014, 30, 8558-8569.	3.5	87
78	Structural Analysis of PdAu Dendrimer-Encapsulated Bimetallic Nanoparticles. Langmuir, 2010, 26, 1137-1146.	3.5	86
79	Nature of WO_{<i>x</i>} Sites on SiO₂ and Their Molecular Structureâ€"Reactivity/Selectivity Relationships for Propylene Metathesis. ACS Catalysis, 2016, 6, 3061-3071.	11.2	86
80	Effects of surface disorder on EXAFS modeling of metallic clusters. Physical Review B, 2010, 81, .	3.2	85
81	Neural Network Approach for Characterizing Structural Transformations by X-Ray Absorption Fine Structure Spectroscopy. Physical Review Letters, 2018, 120, 225502.	7.8	85
82	Phase speciation by extended x-ray absorption fine structure spectroscopy. Journal of Chemical Physics, 2002, 116, 9449-9456.	3.0	81
83	Metal Core Bonding Motifs of Monodisperse Icosahedral Au13and Larger Au Monolayer-Protected Clusters As Revealed by X-ray Absorption Spectroscopy and Transmission Electron Microscopy. Journal of Physical Chemistry B, 2006, 110, 14564-14573.	2.6	81
84	Catalysis on Singly Dispersed Rh Atoms Anchored on an Inert Support. ACS Catalysis, 2018, 8, 110-121.	11.2	81
85	In Situ Elucidation of the Active State of Coâ€"CeO_{<i>x</i>} Catalysts in the Dry Reforming of Methane: The Important Role of the Reducible Oxide Support and Interactions with Cobalt. ACS Catalysis, 2018, 8, 3550-3560.	11.2	80
86	Probing Atomic Distributions in Mono- and Bimetallic Nanoparticles by Supervised Machine Learning. Nano Letters, 2019, 19, 520-529.	9.1	80
87	In Situ Electrochemical X-ray Absorption Spectroscopy of Oxygen Reduction Electrocatalysis with High Oxygen Flux. Journal of the American Chemical Society, 2012, 134, 197-200.	13.7	79
88	Dynamic structure in supported Pt nanoclusters: Real-time density functional theory and x-ray spectroscopy simulations. Physical Review B, 2008, 78, .	3.2	77
89	Anisotropy in BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>single crystals with double chains of FeSe tetrahedra. Physical Review B, 2011, 84, .	3.2	75
90	Determining Peptide Sequence Effects That Control the Size, Structure, and Function of Nanoparticles. ACS Nano, 2012, 6, 1625-1636.	14.6	75

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91	An Experimental and Theoretical Investigation of the Inversion of Pd@Pt Core@Shell Dendrimer-Encapsulated Nanoparticles. ACS Nano, 2013, 7, 9345-9353.	14.6	75
92	Photoâ€“thermo Catalytic Oxidation over a TiO₂â€WO₃â€Supported Platinum Catalyst. Angewandte Chemie - International Edition, 2020, 59, 12909-12916.	13.8	75
93	Controlled Doping of MS₂ (M=W, Mo) Nanotubes and Fullereneâ€like Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 1148-1151.	13.8	73
94	Time Resolved in Situ XAFS Study of the Electrochemical Oxygen Intercalation in SrFeO_{2.5} Brownmillerite Structure: Comparison with the Homologous SrCoO_{2.5} System. Journal of Physical Chemistry C, 2011, 115, 1311-1322.	3.1	72
95	Noncrystalline-to-Crystalline Transformations in Pt Nanoparticles. Journal of the American Chemical Society, 2013, 135, 13062-13072.	13.7	71
96	Periodicity and Atomic Ordering in Nanosized Particles of Crystals. Journal of Physical Chemistry C, 2008, 112, 8907-8911.	3.1	70
97	Local Structure and Electronic State of Atomically Dispersed Pt Supported on Nanosized CeO₂. ACS Catalysis, 2019, 9, 8738-8748.	11.2	70
98	Local Structure and Strainâ€Induced Distortion in Ce_{0.8}Gd_{0.2}O_{1.9}. Advanced Materials, 2010, 22, 1659-1662.	21.0	69
99	Subnanometer Substructures in Nanoassemblies Formed from Clusters under a Reactive Atmosphere Revealed Using Machine Learning. Journal of Physical Chemistry C, 2018, 122, 21686-21693.	3.1	69
100	Endogenous Dynamic Nuclear Polarization for Natural Abundance ¹⁷O and Lithium NMR in the Bulk of Inorganic Solids. Journal of the American Chemical Society, 2019, 141, 451-462.	13.7	69
101	Dynamics of CrO₃â€“Fe₂O₃ Catalysts during the High-Temperature Water-Gas Shift Reaction: Molecular Structures and Reactivity. ACS Catalysis, 2016, 6, 4786-4798.	11.2	68
102	Highly active subnanometer Rh clusters derived from Rh-doped SrTiO3 for CO2 reduction. Applied Catalysis B: Environmental, 2018, 237, 1003-1011.	20.2	67
103	Multiple-scattering x-ray-absorption fine-structure analysis and thermal expansion of alkali halides. Physical Review B, 1993, 48, 12449-12458.	3.2	66
104	Local structure of disordered Au-Cu and Au-Ag alloys. Physical Review B, 2000, 62, 9364-9371.	3.2	66
105	Geometrical Characteristics of Regular Polyhedra: Application to EXAFS Studies of Nanoclusters. AIP Conference Proceedings, 2007, , .	0.4	66
106	<i>In-situ</i> extended X-ray absorption fine structure study of electrostriction in Gd doped ceria. Applied Physics Letters, 2015, 106, .	3.3	66
107	Solving the structure of reaction intermediates by time-resolved synchrotron x-ray absorption spectroscopy. Journal of Chemical Physics, 2008, 129, 234502.	3.0	64
108	Ternary PtSnRhâ€“SnO2 nanoclusters: synthesis and electroactivity for ethanol oxidation fuel cell reaction. Journal of Materials Chemistry, 2011, 21, 8887.	6.7	64

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109	[illegible]n of the local structure at the phase transition in CeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>-Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	64
110	Surface ReO_{<i>x</i>} Sites on Al₂O₃ and Their Molecular Structureâ€"Reactivity Relationships for Olefin Metathesis. ACS Catalysis, 2015, 5, 1432-1444.	11.2	64
111	Preparation of (Ga_{1â^'<i>x</i>}Zn_{<i>x</i>})(N_{1â^'<i>x</i>}O_{<i>x</i>}) Photocatalysts from the Reaction of NH₃ with Ga₂O₃/ZnO and ZnGa₂O₄: In Situ Time-Resolved XRD and XAFS Studies. Journal of Physical Chemistry C, 2009, 113, 3650-3659.	3.1	63
112	A theoretical and experimental examination of systematic ligand-induced disorder in Au dendrimer-encapsulated nanoparticles. Chemical Science, 2013, 4, 2912.	7.4	63
113	Origin of Polarity in Amorphous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2007, 99, 215502.	7.8	60
114	In situ coarsening study of inverse micelle-prepared Pt nanoparticles supported on Î³-Al2O3: pretreatment and environmental effects. Physical Chemistry Chemical Physics, 2012, 14, 11457.	2.8	60
115	Mapping XANES spectra on structural descriptors of copper oxide clusters using supervised machine learning. Journal of Chemical Physics, 2019, 151, 164201.	3.0	60
116	Birnessite catalysis of the Maillard Reaction: Its significance in natural humification. Geophysical Research Letters, 2001, 28, 3899-3902.	4.0	59
117	Cobaltâ€"polypyrroleâ€"carbon black (Coâ€"PPYâ€"CB) electrocatalysts for the oxygen reduction reaction (ORR) in fuel cells: Composition and kinetic activity. Applied Catalysis B: Environmental, 2011, 105, 50-60.	20.2	59
118	Solving the structure of disordered mixed salts. Physical Review B, 1994, 49, 11662-11674.	3.2	58
119	Nanoscale disorder and local electronic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaCu</mml:mtext></mml:mrow><mml:mn>[illegible]/mml:m[illegible]</mm[illegible] An integrated study of electron, neutron, and x-ray diffraction, x-ray absorption fine structu. Physical Review B, 2010, 81, .	3.2	58
120	Carbon-Supported IrNi Coreâ€"Shell Nanoparticles: Synthesis, Characterization, and Catalytic Activity. Journal of Physical Chemistry C, 2011, 115, 9894-9902.	3.1	58
121	Short range order in bimetallic nanoalloys: An extended X-ray absorption fine structure study. Journal of Chemical Physics, 2013, 138, 064202.	3.0	58
122	Multi-Stage Structural Transformations in Zero-Strain Lithium Titanate Unveiled by <i>in Situ</i> X-ray Absorption Fingerprints. Journal of the American Chemical Society, 2017, 139, 16591-16603.	13.7	57
123	The effect of impregnation sequence on the hydrogenation activity and selectivity of supported Pt/Ni bimetallic catalysts. Applied Catalysis A: General, 2008, 339, 169-179.	4.3	56
124	Thermochromism in polydiacetylene-metal oxide nanocomposites. Journal of Materials Chemistry, 2012, 22, 7028.	6.7	56
125	Application of Operando XAS, XRD, and Raman Spectroscopy for Phase Speciation in Water Gas Shift Reaction Catalysts. ACS Catalysis, 2012, 2, 2216-2223.	11.2	56
126	Why Phase-Change Media Are Fast and Stable: A New Approach to an Old Problem. Japanese Journal of Applied Physics, 2005, 44, 3345-3349.	1.5	55

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127	Origin of Bulklike Structure and Bond Length Disorder of Pt37and Pt6Ru31Clusters on Carbon:Â Comparison of Theory and Experiment. Journal of the American Chemical Society, 2006, 128, 131-142.	13.7	55
128	Size-dependent crystallinity and relative orientations of nano-Pt/Î³-Al2O3. Microscopy and Microanalysis, 2008, 14, 184-185.	0.4	55
129	Buckled crystalline structure of mixed ionic salts. Physical Review Letters, 1993, 71, 3485-3488.	7.8	54
130	Development Plus Kinetic and Mechanistic Studies of a Prototype Supported-Nanoparticle Heterogeneous Catalyst Formation System in Contact with Solution: Ir(1,5-COD)Cl/Î³-Al2O3and Its Reduction by H2to Ir(0)n/Î³-Al2O3. Journal of the American Chemical Society, 2010, 132, 9701-9714.	13.7	54
131	Size dependent behavior of Fe₃O₄crystals during electrochemical (de)lithiation: an in situ X-ray diffraction, ex situ X-ray absorption spectroscopy, transmission electron microscopy and theoretical investigation. Physical Chemistry Chemical Physics, 2017, 19, 20867-20880.	2.8	54
132	Identifying Dynamic Structural Changes of Active Sites in Ptâ€“Ni Bimetallic Catalysts Using Multimodal Approaches. ACS Catalysis, 2018, 8, 4120-4131.	11.2	54
133	Microscopic origin of polarity in quasiamorphousBaTiO3. Physical Review B, 2005, 71, .	3.2	53
134	Influence of Adsorbates on the Electronic Structure, Bond Strain, and Thermal Properties of an Alumina-Supported Pt Catalyst. ACS Nano, 2012, 6, 5583-5595.	14.6	53
135	Local structural changes inKNbO3under high pressure. Physical Review B, 1997, 56, 10869-10877.	3.2	51
136	Rhombohedral Ordered Intermetallic Nanocatalyst Boosts the Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 184-192.	11.2	51
137	Dilute Pd/Au Alloy Nanoparticles Embedded in Colloid-Templated Porous SiO₂: Stable Au-Based Oxidation Catalysts. Chemistry of Materials, 2019, 31, 5759-5768.	6.7	50
138	Dilute Alloys Based on Au, Ag, or Cu for Efficient Catalysis: From Synthesis to Active Sites. Chemical Reviews, 2022, 122, 8758-8808.	47.7	50
139	Single Atom Catalysts: A Review of Characterization Methods. Chemistry Methods, 2021, 1, 278-294.	3.8	49
140	Role of Lewis and BrÃ¸nsted Acidity in Metal Chloride Catalysis in Organic Media: Reductive Etherification of Furanics. ACS Catalysis, 2017, 7, 7363-7370.	11.2	48
141	Self-extinguishing polymer/organoclay nanocomposites. Polymer Degradation and Stability, 2007, 92, 86-93.	5.8	47
142	Anomalous lattice dynamics and thermal properties of supported size- and shape-selected Pt nanoparticles. Physical Review B, 2010, 82, .	3.2	47
143	An <i>in Situ</i> Study of Bond Strains in 1 nm Pt Catalysts and Their Sensitivities to Clusterâ€“Support and Clusterâ€“Adsorbate Interactions. Journal of Physical Chemistry C, 2013, 117, 23286-23294.	3.1	47
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