

Kiyotaka Asakura

List of Publications by Year in descending order

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413
papers

13,697
citations

31902

53
h-index

32761

100
g-index

435
all docs

435
docs citations

435
times ranked

11594
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Water Splitting into H ₂ and O ₂ over Lanthanum-Doped NaTaO ₃ Photocatalysts with High Crystallinity and Surface Nanostructure. <i>Journal of the American Chemical Society</i> , 2003, 125, 3082-3089.	6.6	1,585
2	Alkali-Metal-Promoted Pt/TiO ₂ Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9628-9632.	7.2	611
3	Catalytic activity and structural analysis of polymer-protected gold-palladium bimetallic clusters prepared by the simultaneous reduction of hydrogen tetrachloroaurate and palladium dichloride. <i>The Journal of Physical Chemistry</i> , 1992, 96, 9927-9933.	2.9	343
4	Structural analysis of polymer-protected palladium/platinum bimetallic clusters as dispersed catalysts by using extended x-ray absorption fine structure spectroscopy. <i>The Journal of Physical Chemistry</i> , 1991, 95, 7448-7453.	2.9	310
5	Polymer-Protected Ni/Pd Bimetallic Nano-Clusters: Preparation, Characterization and Catalysis for Hydrogenation of Nitrobenzene. <i>Journal of Physical Chemistry B</i> , 1999, 103, 9673-9682.	1.2	279
6	Nickel-loaded K ₄ Nb ₆ O ₁₇ photocatalyst in the decomposition of H ₂ O into H ₂ and O ₂ : Structure and reaction mechanism. <i>Journal of Catalysis</i> , 1989, 120, 337-352.	3.1	278
7	Active Oxygen Species and Mechanism for Low-Temperature CO Oxidation Reaction on a TiO ₂ -Supported Au Catalyst Prepared from Au(PPh ₃)(NO ₃) and As-Precipitated Titanium Hydroxide. <i>Journal of Catalysis</i> , 1999, 185, 252-264.	3.1	275
8	Influence of sulfation on iron titanate catalyst for the selective catalytic reduction of NO _x with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2011, 103, 369-377.	10.8	245
9	Electron Transfer Effects in Ozone Decomposition on Supported Manganese Oxide. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4245-4253.	1.2	179
10	Polarized Cu K-edge XANES of square planar CuCl ₄ ²⁻ ion. Experimental and theoretical evidence for shake-down phenomena. <i>Chemical Physics</i> , 1984, 91, 249-256.	0.9	172
11	Supported Au Catalysts Prepared from Au Phosphine Complexes and As-Precipitated Metal Hydroxides: Characterization and Low-Temperature CO Oxidation. <i>Journal of Catalysis</i> , 1997, 170, 191-199.	3.1	166
12	Ni@NiO Core-Shell Structure-Modified Nitrogen-Doped InTaO ₄ for Solar-Driven Highly Efficient CO ₂ Reduction to Methanol. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10180-10186.	1.5	165
13	Catalytic activity and structural analysis of polymer-protected gold/palladium bimetallic clusters prepared by the successive reduction of hydrogen tetrachloroaurate(III) and palladium dichloride. <i>The Journal of Physical Chemistry</i> , 1993, 97, 5103-5114.	2.9	163
14	An Al-doped SrTiO ₃ photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000 h of constant illumination. <i>Chemical Science</i> , 2019, 10, 3196-3201.	3.7	163
15	Highly dispersed iron vanadate catalyst supported on TiO ₂ for the selective catalytic reduction of NO _x with NH ₃ . <i>Journal of Catalysis</i> , 2013, 307, 340-351.	3.1	149
16	Effects of Boundaries on Pattern Formation: Catalytic Oxidation of CO on Platinum. <i>Science</i> , 1994, 264, 80-82.	6.0	145
17	Interconvertible multiple photoluminescence color of a gold(isocyanide) complex in the solid state: solvent-induced blue-shifted and mechano-responsive red-shifted photoluminescence. <i>Chemical Science</i> , 2015, 6, 2187-2195.	3.7	133
18	Photocatalytic O ₂ Evolution of Rhodium and Antimony-Codoped Rutile-Type TiO ₂ under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17420-17426.	1.5	128

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19	Reactant-promoted reaction mechanism for catalytic water-gas shift reaction on MgO. <i>Journal of Catalysis</i> , 1990, 122, 55-67.	3.1	125
20	Silver-modulated SiO ₂ -supported copper catalysts for selective hydrogenation of dimethyl oxalate to ethylene glycol. <i>Journal of Catalysis</i> , 2013, 307, 74-83.	3.1	123
21	Variability in the Structure of Supported MoO ₃ Catalysts: Studies Using Raman and X-ray Absorption Spectroscopy with ab Initio Calculations. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8519-8530.	1.2	121
22	Co Single Atoms in ZrO ₂ with Inherent Oxygen Vacancies for Selective Hydrogenation of CO ₂ to CO. <i>ACS Catalysis</i> , 2021, 11, 9450-9461.	5.5	116
23	Photocatalytic activity and reaction mechanism of Pt-intercalated K ₄ Nb ₆ O ₁₇ catalyst on the water splitting in carbonate salt aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 114, 125-135.	2.0	107
24	Structural analysis of polymer-protected platinum/rhodium bimetallic clusters using extended x-ray absorption fine structure spectroscopy. Importance of microclusters for the formation of bimetallic clusters. <i>The Journal of Physical Chemistry</i> , 1994, 98, 2653-2662.	2.9	106
25	Influence of calcination temperature on iron titanate catalyst for the selective catalytic reduction of NO _x with NH ₃ . <i>Catalysis Today</i> , 2011, 164, 520-527.	2.2	98
26	Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H ₂ and O ₂ . <i>Surface Science</i> , 1994, 313, 52-63.	0.8	95
27	Remarkable enhancement of Cu catalyst activity in hydrogenation of dimethyl oxalate to ethylene glycol using gold. <i>Catalysis Science and Technology</i> , 2012, 2, 1637.	2.1	95
28	Characterization and Kinetic Studies on the Highly Active Ammoxidation Catalyst MoVNbTeO _x . <i>Journal of Catalysis</i> , 2000, 194, 309-317.	3.1	87
29	Structure of polymer-protected palladium-platinum bimetallic clusters at the oxidized state: extended x-ray absorption fine structure analysis. <i>The Journal of Physical Chemistry</i> , 1992, 96, 9730-9738.	2.9	86
30	Structure and catalytic combustion activity of atomically dispersed Pt species at MgO surface. <i>Applied Catalysis A: General</i> , 1999, 188, 313-324.	2.2	86
31	Carbon Nanotube-Supported RuFe Bimetallic Nanoparticles as Efficient and Robust Catalysts for Aqueous-Phase Selective Hydrogenolysis of Glycerol to Glycols. <i>ACS Catalysis</i> , 2011, 1, 1521-1528.	5.5	83
32	EXAFS measurements of a working catalyst in the liquid phase: An in situ study of a Ni ₂ P hydrodesulfurization catalyst. <i>Journal of Catalysis</i> , 2006, 241, 20-24.	3.1	81
33	Iron-Oxide Supported Gold Catalysts Derived from Gold-Phosphine Complex Au(PPh ₃)(NO ₃): State and Structure of the Support. <i>Journal of Catalysis</i> , 1998, 176, 426-438.	3.1	78
34	Exploring the catalytic properties of supported palladium catalysts in the transfer hydrogenolysis of glycerol. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 121-131.	10.8	76
35	Rhenium-loaded TiO ₂ : A Highly Versatile and Chemoselective Catalyst for the Hydrogenation of Carboxylic Acid Derivatives and the N-Methylation of Amines Using H ₂ and CO ₂ . <i>Chemistry - A European Journal</i> , 2017, 23, 14848-14859.	1.7	76
36	Preparation of supported gold catalysts from gold complexes and their catalytic activities for CO oxidation. <i>Catalysis Letters</i> , 1996, 42, 15-20.	1.4	75

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37	Metal-assisted hydroformylation on a SiO ₂ -attached rhodium dimer. In situ EXAFS and FT-IR observations of the dynamic behaviors of the dimer site. <i>Journal of the American Chemical Society</i> , 1990, 112, 9096-9104.	6.6	74
38	In situ FTIR and XANES studies of thiophene hydrodesulfurization on Ni ₂ P/MCM-41. <i>Journal of Catalysis</i> , 2009, 268, 209-222.	3.1	73
39	Unprecedented selectivity to the direct desulfurization (DDS) pathway in a highly active FeNi bimetallic phosphide catalyst. <i>Journal of Catalysis</i> , 2012, 285, 1-5.	3.1	73
40	Design and Characterization by EXAFS, FTIR, and TEM of Rh-Sn/SiO ₂ Catalysts Active for NO-H ₂ Reaction. <i>Journal of Catalysis</i> , 1994, 149, 70-80.	3.1	67
41	Controlling the Length and Shape of Gold Nanorods. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19553-19555.	1.2	67
42	Supported Gold Catalysts Prepared from a Gold Phosphine Precursor and As-Precipitated Metal-Hydroxide Precursors: Effect of Preparation Conditions on the Catalytic Performance. <i>Journal of Catalysis</i> , 2000, 196, 56-65.	3.1	66
43	Polarized Total-Reflection Fluorescence EXAFS Study of Anisotropic Structure Analysis for Co Oxides on γ -Al ₂ O ₃ (0001) as Model Surfaces for Active Oxidation Catalysts. <i>Journal of Catalysis</i> , 1994, 145, 159-165.	3.1	64
44	Catalysis on microstructured surfaces: Pattern formation during CO oxidation in complex Pt domains. <i>Physical Review E</i> , 1995, 52, 76-93.	0.8	63
45	Evidence of Nonelectrochemical Shift Reaction on a CO-Tolerant High-Entropy State Pt-Ru Anode Catalyst for Reliable and Efficient Residential Fuel Cell Systems. <i>Journal of the American Chemical Society</i> , 2012, 134, 14508-14512.	6.6	63
46	New SiO ₂ -supported niobium monomer catalysts for dehydrogenation of ethanol. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 1660.	2.0	59
47	A new method for quantitative characterization of adsorbed hydrogen on Pt particles by means of Pt L-edge XANES. <i>Chemical Physics Letters</i> , 1996, 256, 445-448.	1.2	57
48	Supported gold catalysis derived from the interaction of a Au-phosphine complex with as-precipitated titanium hydroxide and titanium oxide. <i>Catalysis Today</i> , 1998, 44, 333-342.	2.2	57
49	Study of Gold Species in Iron-Oxide-Supported Gold Catalysts Derived from Gold-Phosphine Complex Au(PPh ₃)(NO ₃) and As-Precipitated Wet Fe(OH) ₃ *. <i>Journal of Catalysis</i> , 1999, 181, 37-48.	3.1	57
50	Dynamic Behaviour of Active Sites of a SiO ₂ -Attached Mo(VI)-Dimer Catalyst during Ethanol Oxidation Observed by Means of EXAFS. <i>Zeitschrift Fur Physikalische Chemie</i> , 1985, 144, 105-115.	1.4	56
51	Structure and behaviour of Ru ₃ (CO) ₁₂ supported on inorganic oxide surfaces, studied by EXAFS, infrared spectroscopy and temperature-programmed decomposition. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 2645.	1.7	54
52	Synthesis, characterization, and catalytic properties of silica-attached one-atomic-layer niobium oxide catalysts. <i>The Journal of Physical Chemistry</i> , 1991, 95, 1711-1716.	2.9	53
53	Polarization-Dependent Total-Reflection Fluorescence XAFS Study of Mo Oxides on a Rutile TiO ₂ (110) Single Crystal Surface. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9006-9014.	1.2	53
54	Characterization of Pt-doped SnO ₂ catalyst for a high-performance micro gas sensor. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17938.	1.3	53

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55	<i>In Situ</i> X-ray Absorption Fine Structure Analysis of PtCo, PtCu, and PtNi Alloy Electrocatalysts: The Correlation of Enhanced Oxygen Reduction Reaction Activity and Structure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11519-11527.	1.5	53
56	The First Atomic-scale Observation of a Ni ₂ P(0001) Single Crystal Surface. <i>Chemistry Letters</i> , 2006, 35, 90-91.	0.7	52
57	Combined in situ QXAFS and FTIR analysis of a Ni phosphide catalyst under hydrodesulfurization conditions. <i>Journal of Catalysis</i> , 2012, 286, 165-171.	3.1	52
58	In-Situ Polarization-Dependent Total-Reflection Fluorescence XAFS Studies on the Structure Transformation of Pt Clusters on γ -Al ₂ O ₃ (0001). <i>Journal of Physical Chemistry B</i> , 1997, 101, 5549-5556.	1.2	51
59	Structure of MnOx/Al ₂ O ₃ Catalyst: A Study Using EXAFS, In Situ Laser Raman Spectroscopy and ab Initio Calculations. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9067-9070.	1.2	51
60	Ultrathin inorganic molecular nanowire based on polyoxometalates. <i>Nature Communications</i> , 2015, 6, 7731.	5.8	50
61	Characterization of the Structure of RuO ₂ /IrO ₂ /Ti Electrodes by EXAFS. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3736-3741.	1.2	49
62	Time-resolved DXAFS study on the reduction processes of Cu cations in ZSM-5. <i>Catalysis Letters</i> , 2000, 68, 139-145.	1.4	48
63	Control of Reactivity in C-H Bond Breaking Reactions on Oxide Catalysts: Methanol Oxidation on Supported Molybdenum Oxide. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1845-1852.	1.2	48
64	X-ray absorption fine structure (XAFS) analyses of Ni species trapped in graphene sheet of carbon nanofibers. <i>Physical Review B</i> , 2006, 73, .	1.1	48
65	Synthesis of Silica-Supported Compact Phosphines and Their Application to Rhodium-Catalyzed Hydrosilylation of Hindered Ketones with Triorganosilanes. <i>Organometallics</i> , 2008, 27, 6495-6506.	1.1	47
66	Structure and electronic state of molybdenum subcarbonyl species engaged in zeolite. <i>The Journal of Physical Chemistry</i> , 1991, 95, 3700-3705.	2.9	46
67	Synergy of Ru and Ir in the Electrohydrogenation of Toluene to Methylcyclohexane on a Ketjenblack-Supported Ru-Ir Alloy Cathode. <i>ACS Catalysis</i> , 2019, 9, 2448-2457.	5.5	46
68	The Polymer-Protected Pd-Pt Bimetallic Clusters Having Catalytic Activity for Selective Hydrogenation of Diene. Preparation and EXAFS Investigation on the Structure. <i>Chemistry Letters</i> , 1990, 19, 815-818.	0.7	45
69	Surface structure and catalysis for CO hydrogenation of the supported Ru species derived from the Ru ₃ (CO) ₁₂ inorganic oxides. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 2657.	1.7	45
70	Dynamical LEED analysis of Ni ₂ P (0001)-1 \times 1: Evidence for P-covered surface structure. <i>Chemical Physics Letters</i> , 2011, 513, 48-52.	1.2	45
71	Surface Structures and Catalytic Hydroformylation Activities of Rh Dimers Attached on Various Inorganic Oxide Supports. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13636-13645.	2.9	44
72	Extended X-ray Absorption Fine Structure Studies on the Structure of the Poly(vinylpyrrolidone)-Stabilized Cu/Pd Nanoclusters Colloidally Dispersed in Solution. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8587-8598.	1.2	44

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73	Controlling Length of Gold Nanowires with Large-Scale: X-ray Absorption Spectroscopy Approaches to the Growth Process. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18550-18557.	1.5	43
74	Photoexcited Hole Transfer to a MnOxCocatalyst on a SrTiO3Photoelectrode during Oxygen Evolution Studied by In Situ X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24302-24309.	1.5	42
75	Dynamics of Photoelectrons and Structural Changes of Tungsten Trioxide Observed by Femtosecond Transient XAFS. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1364-1367.	7.2	42
76	A New XAFS Beamline NW10A at the Photon Factory. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	41
77	A structure model as the origin of catalytic properties of metal-doped MgO systems. <i>Materials Chemistry and Physics</i> , 1988, 18, 499-512.	2.0	39
78	The hydrogen exchange reaction of surface deuteroyl groups on MgO with H ₂ . <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 441.	1.0	39
79	Structure of one atomic layer titanium oxide on silica and its palladium-mediated restructuring. <i>The Journal of Physical Chemistry</i> , 1992, 96, 829-834.	2.9	39
80	Supported Gold Catalysts Derived from Gold Complexes and As-Precipitated Metal Hydroxides, Highly Active for Low-Temperature CO Oxidation. <i>Chemistry Letters</i> , 1996, 25, 755-756.	0.7	39
81	Preparations and catalytic properties of single, pair, and monolayer niobium catalysts. <i>Catalysis Today</i> , 1990, 8, 57-66.	2.2	38
82	Spatiotemporal concentration patterns associated with the catalytic oxidation of CO and Au covered Pt(110) surfaces. <i>Journal of Chemical Physics</i> , 1995, 102, 8175-8184.	1.2	38
83	In Situ Time-Resolved Energy-Dispersive XAFS Study on the Reduction Processes of Cu ²⁺ ZSM-5 Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 801-808.	2.0	38
84	Fabrication of Nanorattles with Passive Shell. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19162-19167.	1.2	38
85	Analysis of EXAFS. <i>Series on Synchrotron Radiation Techniques and Applications</i> , 1996, , 33-58.	0.2	37
86	Three-Dimensional Structure Analyses of Cu Species Dispersed on TiO ₂ (110) Surfaces Studied by Polarization-Dependent Total-Reflection Fluorescence X-ray Absorption Fine Structure (PTRF-XAFS). <i>Journal of Physical Chemistry B</i> , 2003, 107, 12917-12929.	1.2	37
87	Bimetallic copper-platinum particles supported in Y zeolite: structural characterization by EXAFS. <i>The Journal of Physical Chemistry</i> , 1991, 95, 5210-5215.	2.9	36
88	Ag L ₃ -Edge X-ray Absorption Near-Edge Structure of 4d ¹⁰ (Ag ⁺) Compounds: Origin of the Edge Peak and Its Chemical Relevance. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4093-4098.	1.1	36
89	Structure of low coverage Ni atoms on the TiO ₂ (110) surface [“] Polarization dependent total-reflection fluorescence EXAFS study. <i>Chemical Physics Letters</i> , 2006, 421, 27-30.	1.2	35
90	Fe K-Edge XANES and EXAFS of the X-Ray Absorption Spectra of FeCl ₃ Aqueous Solutions. A Structural Study of the Solute, Iron(III) Chloro Complexes. <i>Bulletin of the Chemical Society of Japan</i> , 1985, 58, 1543-1550.	2.0	34

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91	Mixed valence oxide-dispersion-induced micropore filling of supercritical nitric oxide. <i>The Journal of Physical Chemistry</i> , 1992, 96, 10917-10922.	2.9	34
92	Spatio-temporal pattern formation during catalytic CO oxidation on a Pt(100) surface modified with submonolayers of Au. <i>Surface Science</i> , 1997, 374, 125-141.	0.8	34
93	Zeolite-encapsulated vanadium picolinate peroxo complexes active for catalytic hydrocarbon oxidations. <i>Journal of Molecular Catalysis A</i> , 1999, 137, 223-237.	4.8	34
94	Stepwise Synthesis and Structure Analysis of Mo Dimers in NaY Zeolite. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1051-1058.	1.2	33
95	In Situ Time-Resolved Energy-Dispersive X-ray Absorption Fine Structure Study on the Decarbonylation Processes of Mo(CO) ₆ Entrapped in NaY and HY Zeolites. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2415-2422.	1.2	33
96	Pd ⁰ -Co ⁰ Fe Nanoparticles Investigated by X-ray Absorption Spectroscopy as Electrocatalysts for Oxygen Reduction. <i>Chemistry of Materials</i> , 2009, 21, 4030-4036.	3.2	33
97	Promoting effects of Se on Rh/ZrO ₂ catalysis for ethene hydroformylation. <i>Journal of Catalysis</i> , 1991, 127, 631-644.	3.1	32
98	In situ observation of carrier transfer in the Mn-oxide/Nb:SrTiO ₃ photoelectrode by X-ray absorption spectroscopy. <i>Chemical Communications</i> , 2013, 49, 7848.	2.2	32
99	Extended x-ray absorption fine structure studies on the structure change of the alumina-attached [cobalt(II)] ₄ catalyst during carbon monoxide oxidation reaction. <i>The Journal of Physical Chemistry</i> , 1989, 93, 4213-4218.	2.9	31
100	Structural analysis of polymer-protected palladium/rhodium bimetallic clusters using EXAFS spectroscopy. <i>The Journal of Physical Chemistry</i> , 1993, 97, 10742-10749.	2.9	31
101	Modification of spatiotemporal pattern formation in an excitable medium by continuous variation of its intrinsic parameters: CO oxidation on Pt(110). <i>Physical Review B</i> , 1994, 50, 8043-8046.	1.1	31
102	Observation of Molecular Reaction Intermediate and Reaction Mechanism for NO Dissociation and No-H ₂ Reaction on Rh-Sn/SiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1995, 157, 472-481.	3.1	31
103	PtL ₃ -edge XANES studies about the hydrogen adsorption on small Pt particles. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 439-441.	1.0	31
104	Development of an in situ polarization-dependent total-reflection fluorescence XAFS measurement system. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 168-172.	1.0	31
105	Efficient Ru ⁰ -Fe catalyzed selective hydrogenolysis of carboxylic acids to alcoholic chemicals. <i>RSC Advances</i> , 2014, 4, 29072-29082.	1.7	31
106	Self-regulated Ni cluster formation on the TiO ₂ (110) terrace studied using scanning tunneling microscopy. <i>Surface Science</i> , 2006, 600, 117-121.	0.8	30
107	Preparation of atomically dispersed Cu species on a TiO ₂ (110) surface premodified with an organic compound. <i>Chemical Physics Letters</i> , 2007, 433, 345-349.	1.2	30
108	Scanning Tunneling Microscopy and Photoemission Electron Microscopy Studies on Single Crystal Ni _{1-x} P Surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 195-201.	0.9	30

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109	Extended X-ray absorption fine structure and ^{129}Xe nuclear magnetic resonance evidence for highly dispersed molybdenum clusters in zeolite Y. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 1015.	1.7	29
110	Room-temperature-adsorption behavior of acetic anhydride on a $\text{TiO}_2(110)$ surface. <i>Surface Science</i> , 2007, 601, 1822-1830.	0.8	29
111	Quick X-ray Absorption Fine Structure Studies on the Activation Process of Ni_2P Supported on K-USY. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7466-7471.	1.5	29
112	K-Edge X-ray Absorption Fine Structure Analysis of Pt/Au Core-Shell Electrocatalyst: Evidence for Short Pt-Pt Distance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8481-8490.	1.5	29
113	A study of FeN/C catalysts for the selective oxidation of unsaturated alcohols by molecular oxygen. <i>Journal of Catalysis</i> , 2018, 367, 16-26.	3.1	29
114	Synthesis and characterization of rhodium oxide nanoparticles in mesoporous MCM-41. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2027-2032.	1.3	28
115	Title is missing!. <i>Catalysis Letters</i> , 1997, 46, 141-144.	1.4	27
116	Surface structures of Ni_2P (0001) scanning tunneling microscopy (STM) and low-energy electron diffraction (LEED) characterizations. <i>Surface and Interface Analysis</i> , 2006, 38, 1611-1614.	0.8	27
117	STM studies on the reconstruction of the Ni_2P (101 $\bar{1}$...0) surface. <i>Surface Science</i> , 2010, 604, 1347-1352.	0.8	27
118	Temperature dependence of EXAFS spectra of supported small metal particles. <i>Faraday Discussions</i> , 1991, 92, 189.	1.6	26
119	Anisotropic structure analysis for Mo oxides on $\text{TiO}_2(110)$ single crystal surface by polarization-dependent total-reflection fluorescence EXAFS. <i>Chemical Physics Letters</i> , 1998, 288, 868-872.	1.2	26
120	Light-Induced Transformation of Molecular Materials into Devices. <i>Advanced Materials</i> , 2004, 16, 1786-1790.	11.1	26
121	THE SURFACE STRUCTURE AND CATALYTIC PROPERTIES OF ONE-ATOMIC LAYER AMORPHOUS NIOBIUM-OXIDE ATTACHED ON SiO_2 . <i>Chemistry Letters</i> , 1986, 15, 859-862.	0.7	25
122	Chemical environments around active sites and reaction mechanisms for deuterium-acrolein reaction over Ir/Nb $_2$ O $_5$ in normal and SMSI states. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 2021.	1.0	25
123	Anisotropic structure analysis for cobalt oxides on $\gamma\text{-Al}_2\text{O}_3(0001)$ by polarized total-reflection fluorescence extended X-ray absorption fine structure. <i>Catalysis Letters</i> , 1992, 15, 247-254.	1.4	25
124	Characterization of rhodium oxide nanoparticles in MCM-41 and their catalytic performances for NO-CO reactions in excess O $_2$. <i>Applied Catalysis A: General</i> , 2002, 228, 305-314.	2.2	25
125	Effect of application time of colloidal platinum nanoparticles on the microtensile bond strength to dentin. <i>Dental Materials Journal</i> , 2010, 29, 682-689.	0.8	25
126	Carbon incorporated FeN/C electrocatalyst for oxygen reduction enhancement in direct methanol fuel cells: X-ray absorption approach to local structures. <i>Electrochimica Acta</i> , 2011, 56, 8734-8738.	2.6	25

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127	An XAFS study on the specific microstructure of active species in iron titanate catalyst for NH ₃ -SCR of NO _x . <i>Catalysis Today</i> , 2013, 201, 131-138.	2.2	25
128	Density Function Theoretical Investigation on the Ni ₃ PP Structure and the Hydrogen Adsorption Property of the Ni ₂ P(0001) Surface. <i>Chemistry Letters</i> , 2013, 42, 1481-1483.	0.7	25
129	Deprotonation of a dinuclear copper complex of 3,5-diamino-1,2,4-triazole for high oxygen reduction activity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8638-8641.	1.3	25
130	Trace mono-atomically dispersed rhodium on zeolite-supported cobalt catalyst for the efficient methane oxidation. <i>Communications Chemistry</i> , 2018, 1, .	2.0	25
131	Mechanistic study of the selective hydrogenation of carboxylic acid derivatives over supported rhenium catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 5413-5424.	2.1	25
132	Transfer hydrogenolysis of aromatic ethers promoted by the bimetallic Pd/Co catalyst. <i>Catalysis Today</i> , 2020, 357, 511-517.	2.2	25
133	Exafs study of FeCl ₃ -doped polyacetylene. <i>Solid State Communications</i> , 1983, 46, 235-238.	0.9	24
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