Kiyotaka Asakura

List of Publications by Year
in descending order

413	13,697	31976	31849
papers	citations	53 h-index	101 g-index

435	435	435	11594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Efficient Water Splitting into H2and O2over Lanthanum-Doped NaTaO3Photocatalysts with High Crystallinity and Surface Nanostructure. Journal of the American Chemical Society, 2003, 125, 3082-3089.	13.7	1,585
2	Alkaliâ€Metalâ€Promoted Pt/TiO₂ Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures. Angewandte Chemie - International Edition, 2012, 51, 9628-9632.	13.8	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. The Journal of Physical Chemistry, 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. The Journal of Physical Chemistry, 1991, 95, 7448-7453.	2.9	310
5	Polymer-Protected Ni/Pd Bimetallic Nano-Clusters:Â Preparation, Characterization and Catalysis for Hydrogenation of Nitrobenzene. Journal of Physical Chemistry B, 1999, 103, 9673-9682.	2.6	279
6	Nickel-loaded K4Nb6O17 photocatalyst in the decomposition of H2O into H2 and O2: Structure and reaction mechanism. Journal of Catalysis, 1989, 120, 337-352.	6.2	278
7	Active Oxygen Species and Mechanism for Low-Temperature CO Oxidation Reaction on a TiO2-Supported Au Catalyst Prepared from Au(PPh3)(NO3) and As-Precipitated Titanium Hydroxide. Journal of Catalysis, 1999, 185, 252-264.	6.2	275
8	Influence of sulfation on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. Applied Catalysis B: Environmental, 2011, 103, 369-377.	20.2	245
9	Electron Transfer Effects in Ozone Decomposition on Supported Manganese Oxide. Journal of Physical Chemistry B, 2001, 105, 4245-4253.	2.6	179
10	Polarized Cu K-edge XANES of square planar CuCl42â˜ ion. Experimental and theoretical evidence for shake-down phenomena. Chemical Physics, 1984, 91, 249-256.	1.9	172
11	Supported Au Catalysts Prepared from Au Phosphine Complexes and As-Precipitated Metal Hydroxides: Characterization and Low-Temperature CO Oxidation. Journal of Catalysis, 1997, 170, 191-199.	6.2	166
12	Ni@NiO Coreâ€“Shell Structure-Modified Nitrogen-Doped InTaO₄ for Solar-Driven Highly Efficient CO₂ Reduction to Methanol. Journal of Physical Chemistry C, 2011, 115, 10180-10186.	3.1	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. The Journal of Physical Chemistry, 1993, 97, 5103-5114.	2.9	163
14	An Al-doped SrTiO₃photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000Âh of constant illumination. Chemical Science, 2019, 10, 3196-3201.	7.4	163
15	Highly dispersed iron vanadate catalyst supported on TiO2 for the selective catalytic reduction of NOx with NH3. Journal of Catalysis, 2013, 307, 340-351.	6.2	149
16	Effects of Boundaries on Pattern Formation: Catalytic Oxidation of CO on Platinum. Science, 1994, 264, 80-82.	12.6	145
17	Interconvertible multiple photoluminescence color of a gold(<scp>i</scp>) isocyanide complex in the solid state: solvent-induced blue-shifted and mechano-responsive red-shifted photoluminescence. Chemical Science, 2015, 6, 2187-2195.	7.4	133
18	Photocatalytic O₂ Evolution of Rhodium and Antimony-Codoped Rutile-Type TiO₂ under Visible Light Irradiation. Journal of Physical Chemistry C, 2007, 111, 17420-17426.	3.1	128

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19	Reactant-promoted reaction mechanism for catalytic water-gas shift reaction on MgO. Journal of Catalysis, 1990, 122, 55-67.	6.2	125
20	Silver-modulated SiO2-supported copper catalysts for selective hydrogenation of dimethyl oxalate to ethylene glycol. Journal of Catalysis, 2013, 307, 74-83.	6.2	123
21	Variability in the Structure of Supported MoO3 Catalysts:â€‰ Studies Using Raman and X-ray Absorption Spectroscopy with ab Initio Calculations. Journal of Physical Chemistry B, 2001, 105, 8519-8530.	2.6	121
22	Co Single Atoms in ZrO₂ with Inherent Oxygen Vacancies for Selective Hydrogenation of CO₂ to CO. ACS Catalysis, 2021, 11, 9450-9461.	11.2	116
23	Photocatalytic activity and reaction mechanism of Pt-intercalated K4Nb6O17 catalyst on the water splitting in carbonate salt aqueous solution. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 114, 125-135.	3.9	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. The Journal of Physical Chemistry, 1994, 98, 2653-2662.	2.9	106
25	Influence of calcination temperature on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. Catalysis Today, 2011, 164, 520-527.	4.4	98
26	Subsurface oxygen on Pt(100): kinetics of the transition from chemisorbed to subsurface state and its reaction with CO, H2 and O2. Surface Science, 1994, 313, 52-63.	1.9	95
27	Remarkable enhancement of Cu catalyst activity in hydrogenation of dimethyl oxalate to ethylene glycol using gold. Catalysis Science and Technology, 2012, 2, 1637.	4.1	95
28	Characterization and Kinetic Studies on the Highly Active Ammoxidation Catalyst MoVNbTeOx. Journal of Catalysis, 2000, 194, 309-317.	6.2	87
29	Structure of polymer-protected palladium-platinum bimetallic clusters at the oxidized state: extended x-ray absorption fine structure analysis. The Journal of Physical Chemistry, 1992, 96, 9730-9738.	2.9	86
30	Structure and catalytic combustion activity of atomically dispersed Pt species at MgO surface. Applied Catalysis A: General, 1999, 188, 313-324.	4.3	86
31	Carbon Nanotube-Supported RuFe Bimetallic Nanoparticles as Efficient and Robust Catalysts for Aqueous-Phase Selective Hydrogenolysis of Glycerol to Glycols. ACS Catalysis, 2011, 1, 1521-1528.	11.2	83
32	EXAFS measurements of a working catalyst in the liquid phase: An in situ study of a Ni2P hydrodesulfurization catalyst. Journal of Catalysis, 2006, 241, 20-24.	6.2	81
33	Iron-Oxide Supported Gold Catalysts Derived from Gold-Phosphine Complex Au(PPh3)(NO3): State and Structure of the Support. Journal of Catalysis, 1998, 176, 426-438.	6.2	78
34	Exploring the catalytic properties of supported palladium catalysts in the transfer hydrogenolysis of glycerol. Applied Catalysis B: Environmental, 2015, 166-167, 121-131.	20.2	76
35	Rheniumâ€Loaded TiO₂: A Highly Versatile and Chemoselective Catalyst for the Hydrogenation of Carboxylic Acid Derivatives and the Nâ€Methylation of Amines Using H₂ and CO₂. Chemistry - A European Journal, 2017, 23, 14848-14859.	3.3	76
36	Preparation of supported gold catalysts from gold complexes and their catalytic activities for CO oxidation. Catalysis Letters, 1996, 42, 15-20.	2.6	75

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37	Metal-assisted hydroformylation on a SiO2-attached rhodium dimer. In situ EXAFS and FT-IR observations of the dynamic behaviors of the dimer site. Journal of the American Chemical Society, 1990, 112, 9096-9104.	13.7	74
38	In situ FTIR and XANES studies of thiophene hydrodesulfurization on Ni2P/MCM-41. Journal of Catalysis, 2009, 268, 209-222.	6.2	73
39	Unprecedented selectivity to the direct desulfurization (DDS) pathway in a highly active FeNi bimetallic phosphide catalyst. Journal of Catalysis, 2012, 285, 1-5.	6.2	73
40	Design and Characterization by EXAFS, FTIR, and TEM of Rh-Sn/SiO2 Catalysts Active for NO-H2 Reaction. Journal of Catalysis, 1994, 149, 70-80.	6.2	67
41	Controlling the Length and Shape of Gold Nanorods. Journal of Physical Chemistry B, 2005, 109, 19553-19555.	2.6	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. Journal of Catalysis, 2000, 196, 56-65.	6.2	66
43	Polarized Total-Reflection Fluorescence EXAFS Study of Anisotropic Structure Analysis for Co Oxides on Î±-Al2O3 (0001) as Model Surfaces for Active Oxidation Catalysts. Journal of Catalysis, 1994, 145, 159-165.	6.2	64
44	Catalysis on microstructured surfaces: Pattern formation during CO oxidation in complex Pt domains. Physical Review E, 1995, 52, 76-93.	2.1	63
45	Evidence of Nonelectrochemical Shift Reaction on a CO-Tolerant High-Entropy State Ptâ€“Ru Anode Catalyst for Reliable and Efficient Residential Fuel Cell Systems. Journal of the American Chemical Society, 2012, 134, 14508-14512.	13.7	63
46	New SiO2-supported niobium monomer catalysts for dehydrogenation of ethanol. Journal of the Chemical Society Chemical Communications, 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. Chemical Physics Letters, 1996, 256, 445-448.	2.6	57
48	Supported gold catalysis derived from the interaction of a Auâ€“phosphine complex with as-precipitated titanium hydroxide and titanium oxide. Catalysis Today, 1998, 44, 333-342.	4.4	57
49	Study of Gold Species in Iron-Oxide-Supported Gold Catalysts Derived from Gold-Phosphine Complex Au(PPh3)(NO3) and As-Precipitated Wet Fe(OH)3*. Journal of Catalysis, 1999, 181, 37-48.	6.2	57
50	Dynamic Behaviour of Active Sites of a SiO₂-Attached Mo(VI)-Dimer Catalyst during Ethanol Oxidation Observed by Means of EXAFS. Zeitschrift Fur Physikalische Chemie, 1985, 144, 105-115.	2.8	56
51	Structure and behaviour of Ru3(CO)12 supported on inorganic oxide surfaces, studied by EXAFS, infrared spectroscopy and temperature-programmed decomposition. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2645.	1.7	54
52	Synthesis, characterization, and catalytic properties of silica-attached one-atomic-layer niobium oxide catalysts. The Journal of Physical Chemistry, 1991, 95, 1711-1716.	2.9	53
53	Polarization-Dependent Total-Reflection Fluorescence XAFS Study of Mo Oxides on a Rutile TiO2(110) Single Crystal Surface. Journal of Physical Chemistry B, 1998, 102, 9006-9014.	2.6	53
54	Characterization of Pt-doped SnO2 catalyst for a high-performance micro gas sensor. Physical Chemistry Chemical Physics, 2013, 15, 17938.	2.8	53

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55	In SituX-ray Absorption Fine Structure Analysis of PtCo, PtCu, and PtNi Alloy Electrocatalysts: The Correlation of Enhanced Oxygen Reduction Reaction Activity and Structure. Journal of Physical Chemistry C, 2016, 120, 11519-11527.	3.1	53
56	The First Atomic-scale Observation of a Ni2P(0001) Single Crystal Surface. Chemistry Letters, 2006, 35, 90-91.	1.3	52
57	Combined in situ QXAFS and FTIR analysis of a Ni phosphide catalyst under hydrodesulfurization conditions. Journal of Catalysis, 2012, 286, 165-171.	6.2	52
58	In-Situ Polarization-Dependent Total-Reflection Fluorescence XAFS Studies on the Structure Transformation of Pt Clusters on Î±-Al2O3(0001). Journal of Physical Chemistry B, 1997, 101, 5549-5556.	2.6	51
59	Structure of MnOx/Al2O3 Catalyst:â€‰ A Study Using EXAFS, In Situ Laser Raman Spectroscopy and ab Initio Calculations. Journal of Physical Chemistry B, 2001, 105, 9067-9070.	2.6	51
60	Ultrathin inorganic molecular nanowire based on polyoxometalates. Nature Communications, 2015, 6, 7731.	12.8	50
61	Characterization of the Structure of RuO2â^'IrO2/Ti Electrodes by EXAFS. Journal of Physical Chemistry B, 1998, 102, 3736-3741.	2.6	49
62	Time-resolved DXAFS study on the reduction processes of Cu cations in ZSM-5. Catalysis Letters, 2000, 68, 139-145.	2.6	48
63	Control of Reactivity in Câ^'H Bond Breaking Reactions on Oxide Catalysts:Â Methanol Oxidation on Supported Molybdenum Oxide. Journal of Physical Chemistry B, 2003, 107, 1845-1852.	2.6	48
64	X-ray absorption fine structure (XAFS) analyses of Ni species trapped in graphene sheet of carbon nanofibers. Physical Review B, 2006, 73, .	3.2	48
65	Synthesis of Silica-Supported Compact Phosphines and Their Application to Rhodium-Catalyzed Hydrosilylation of Hindered Ketones with Triorganosilanes. Organometallics, 2008, 27, 6495-6506.	2.3	47
66	Structure and electronic state of molybdenum subcarbonyl species encaged in zeolite. The Journal of Physical Chemistry, 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. ACS Catalysis, 2019, 9, 2448-2457.	11.2	46
68	The Polymer-Protected Pdâ€“Pt Bimetallic Clusters Having Catalytic Activity for Selective Hydrogenation of Diene. Preparation and EXAFS Investigation on the Structure. Chemistry Letters, 1990, 19, 815-818.	1.3	45
69	Surface structure and catalysis for CO hydrogenation of the supported Ru species derived from the Ru3(CO)12 inorganic oxides. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2657.	1.7	45
70	Dynamical LEED analysis of Ni2P (0001)-1Ã—1: Evidence for P-covered surface structure. Chemical Physics Letters, 2011, 513, 48-52.	2.6	45
71	Surface Structures and Catalytic Hydroformylation Activities of Rh Dimers Attached on Various Inorganic Oxide Supports. The Journal of Physical Chemistry, 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. Journal of Physical Chemistry B, 2002, 106, 8587-8598.	2.6	44

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73	Controlling Length of Gold Nanowires with Large-Scale:â€‰ X-ray Absorption Spectroscopy Approaches to the Growth Process. Journal of Physical Chemistry C, 2007, 111, 18550-18557.	3.1	43
74	Photoexcited Hole Transfer to a MnOxCocatalyst on a SrTiO3Photoelectrode during Oxygen Evolution Studied by In Situ X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 24302-24309.	3.1	42
75	Dynamics of Photoelectrons and Structural Changes of Tungsten Trioxide Observed by Femtosecond Transient XAFS. Angewandte Chemie - International Edition, 2016, 55, 1364-1367.	13.8	42
76	A New XAFS Beamline NW10A at the Photon Factory. AIP Conference Proceedings, 2007, , .	0.4	41
77	A structure model as the origin of catalytic properties of metal-doped MgO systems. Materials Chemistry and Physics, 1988, 18, 499-512.	4.0	39
78	The hydrogen exchange reaction of surface deuteroxyl groups on MgO with H2. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 441.	1.0	39
79	Structure of one atomic layer titanium oxide on silica and its palladium-mediated restructuring. The Journal of Physical Chemistry, 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. Chemistry Letters, 1996, 25, 755-756.	1.3	39
81	Preparations and catalytic properties of single, pair, and monolayer niobium catalysts. Catalysis Today, 1990, 8, 57-66.	4.4	38
82	Spatiotemporal concentration patterns associated with the catalytic oxidation of CO and Au covered Pt(110) surfaces. Journal of Chemical Physics, 1995, 102, 8175-8184.	3.0	38
83	In Situ Time-Resolved Energy-Dispersive XAFS Study on the Reduction Processes of Cuâ€“ZSM-5 Catalysts. Bulletin of the Chemical Society of Japan, 2001, 74, 801-808.	3.2	38
84	Fabrication of Nanorattles with Passive Shell. Journal of Physical Chemistry B, 2006, 110, 19162-19167.	2.6	38
85	Analysis of EXAFS. Series on Synchrotron Radiation Techniques and Applications, 1996, , 33-58.	0.2	37
86	Three-Dimensional Structure Analyses of Cu Species Dispersed on TiO2(110) Surfaces Studied by Polarization-Dependent Total-Reflection Fluorescence X-ray Absorption Fine Structure (PTRF-XAFS). Journal of Physical Chemistry B, 2003, 107, 12917-12929.	2.6	37
87	Bimetallic copper-platinum particles supported in Y zeolite: structural characterization by EXAFS. The Journal of Physical Chemistry, 1991, 95, 5210-5215.	2.9	36
88	Ag L₃-Edge X-ray Absorption Near-Edge Structure of 4d¹⁰(Ag⁺) Compounds: Origin of the Edge Peak and Its Chemical Relevance. Journal of Physical Chemistry A, 2010, 114, 4093-4098.	2.5	36
89	Structure of low coverage Ni atoms on the TiO2(110) surface â€“ Polarization dependent total-reflection fluorescence EXAFS study. Chemical Physics Letters, 2006, 421, 27-30.	2.6	35
90	Fe K-Edge XANES and EXAFS of the X-Ray Absorption Spectra of FeCl3Aqueous Solutions. A Structural Study of the Solute, Iron(III) Chloro Complexes. Bulletin of the Chemical Society of Japan, 1985, 58, 1543-1550.	3.2	34

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91	Mixed valence oxide-dispersion-induced micropore filling of supercritical nitric oxide. The Journal of Physical Chemistry, 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. Surface Science, 1997, 374, 125-141.	1.9	34
93	Zeolite-encapsulated vanadium picolinate peroxo complexes active for catalytic hydrocarbon oxidations. Journal of Molecular Catalysis A, 1999, 137, 223-237.	4.8	34
94	Stepwise Synthesis and Structure Analysis of Mo Dimers in NaY Zeolite. Journal of Physical Chemistry B, 1999, 103, 1051-1058.	2.6	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. Journal of Physical Chemistry B, 2002, 106, 2415-2422.	2.6	33
96	Pdâ^'Câ^'Fe Nanoparticles Investigated by X-ray Absorption Spectroscopy as Electrocatalysts for Oxygen Reduction. Chemistry of Materials, 2009, 21, 4030-4036.	6.7	33
97	Promoting effects of Se on Rh/ZrO2 catalysis for ethene hydroformylation. Journal of Catalysis, 1991, 127, 631-644.	6.2	32
98	In situ observation of carrier transfer in the Mn-oxide/Nb:SrTiO3 photoelectrode by X-ray absorption spectroscopy. Chemical Communications, 2013, 49, 7848.	4.1	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. The Journal of Physical Chemistry, 1989, 93, 4213-4218.	2.9	31
100	Structural analysis of polymer-protected palladium/rhodium bimetallic clusters using EXAFS spectroscopy. The Journal of Physical Chemistry, 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). Physical Review B, 1994, 50, 8043-8046.	3.2	31
102	Observation of Molecular Reaction Intermediate and Reaction Mechanism for NO Dissociation and No-H2 Reaction on Rh-Sn/SiO2 Catalysts. Journal of Catalysis, 1995, 157, 472-481.	6.2	31
103	PtL3-edge XANES studies about the hydrogen adsorption on small Pt particles. Journal of Synchrotron Radiation, 1999, 6, 439-441.	2.4	31
104	Development of anin situpolarization-dependent total-reflection fluorescence XAFS measurement system. Journal of Synchrotron Radiation, 2001, 8, 168-172.	2.4	31
105	Efficient Ruâ€“Fe catalyzed selective hydrogenolysis of carboxylic acids to alcoholic chemicals. RSC Advances, 2014, 4, 29072-29082.	3.6	31
106	Self-regulated Ni cluster formation on the TiO2(110) terrace studied using scanning tunneling microscopy. Surface Science, 2006, 600, 117-121.	1.9	30
107	Preparation of atomically dispersed Cu species on a TiO2 (110) surface premodified with an organic compound. Chemical Physics Letters, 2007, 433, 345-349.	2.6	30
108	Scanning Tunneling Microscopy and Photoemission Electron Microscopy Studies on Single Crystal Ni₂P Surfaces. Journal of Nanoscience and Nanotechnology, 2009, 9, 195-201.	0.9	30

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109	Extended X-ray absorption fine structure and 129Xe nuclear magnetic resonance evidence for highly dispersed molybdenum clusters in zeolite Y. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 1015.	1.7	29
110	Room-temperature-adsorption behavior of acetic anhydride on a TiO2(110) surface. Surface Science, 2007, 601, 1822-1830.	1.9	29
111	Quick X-ray Absorption Fine Structure Studies on the Activation Process of Ni₂P Supported on K-USY. Journal of Physical Chemistry C, 2011, 115, 7466-7471.	3.1	29
112	K-Edge X-ray Absorption Fine Structure Analysis of Pt/Au Coreâ€“Shell Electrocatalyst: Evidence for Short Ptâ€“Pt Distance. Journal of Physical Chemistry C, 2014, 118, 8481-8490.	3.1	29
113	A study of FeN /C catalysts for the selective oxidation of unsaturated alcohols by molecular oxygen. Journal of Catalysis, 2018, 367, 16-26.	6.2	29
114	Synthesis and characterization of rhodium oxide nanoparticles in mesoporous MCM-41. Physical Chemistry Chemical Physics, 1999, 1, 2027-2032.	2.8	28
115	Title is missing!. Catalysis Letters, 1997, 46, 141-144.	2.6	27
116	Surface structures of Ni2P (0001)â€”scanning tunneling microscopy (STM) and low-energy electron diffraction (LEED) characterizations. Surface and Interface Analysis, 2006, 38, 1611-1614.	1.8	27
117	STM studies on the reconstruction of the Ni2P (101Ì…0) surface. Surface Science, 2010, 604, 1347-1352.	1.9	27
118	Temperature dependence of EXAFS spectra of supported small metal particles. Faraday Discussions, 1991, 92, 189.	3.2	26
119	Anisotropic structure analysis for Mo oxides on TiO2(110) single crystal surface by polarization-dependent total-reflection fluorescence EXAFS. Chemical Physics Letters, 1998, 288, 868-872.	2.6	26
120	Light-Induced Transformation of Molecular Materials into Devices. Advanced Materials, 2004, 16, 1786-1790.	21.0	26
121	THE SURFACE STRUCTURE AND CATALYTIC PROPERTIES OF ONE-ATOMIC LAYER AMORPHOUS NIOBIUM-OXIDE ATTACHED ON SiO2. Chemistry Letters, 1986, 15, 859-862.	1.3	25
122	Chemical environments around active sites and reaction mechanisms for deuteriumâ€“acrolein reaction over Ir/Nb2O5 in normal and SMSI states. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 2021.	1.0	25
123	Anisotropic structure analysis for cobalt oxides on ?-Al2O3(0001) by polarized total-reflection fluorescence extended X-ray absorption fine structure. Catalysis Letters, 1992, 15, 247-254.	2.6	25
124	Characterization of rhodium oxide nanoparticles in MCM-41 and their catalytic performances for NOâ€“CO reactions in excess O2. Applied Catalysis A: General, 2002, 228, 305-314.	4.3	25
125	Effect of application time of colloidal platinum nanoparticles on the microtensile bond strength to dentin. Dental Materials Journal, 2010, 29, 682-689.	1.8	25
126	Carbon incorporated FeN/C electrocatalyst for oxygen reduction enhancement in direct methanol fuel cells: X-ray absorption approach to local structures. Electrochimica Acta, 2011, 56, 8734-8738.	5.2	25

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127	An XAFS study on the specific microstructure of active species in iron titanate catalyst for NH3-SCR of NOx. Catalysis Today, 2013, 201, 131-138.	4.4	25
128	Density Function Theoretical Investigation on the Ni3PP Structure and the Hydrogen Adsorption Property of the Ni2P(0001) Surface. Chemistry Letters, 2013, 42, 1481-1483.	1.3	25
129	Deprotonation of a dinuclear copper complex of 3,5-diamino-1,2,4-triazole for high oxygen reduction activity. Physical Chemistry Chemical Physics, 2015, 17, 8638-8641.	2.8	25
130	Trace mono-atomically dispersed rhodium on zeolite-supported cobalt catalyst for the efficient methane oxidation. Communications Chemistry, 2018, 1, .	4.5	25
131	Mechanistic study of the selective hydrogenation of carboxylic acid derivatives over supported rhenium catalysts. Catalysis Science and Technology, 2019, 9, 5413-5424.	4.1	25
132	Transfer hydrogenolysis of aromatic ethers promoted by the bimetallic Pd/Co catalyst. Catalysis Today, 2020, 357, 511-517.	4.4	25
133	Exafs study of FeCl3-doped polyacetylene. Solid State Communications, 1983, 46, 235-238.	1.9	24
134	Characterization of Pt/SbOxCatalysts Active for Selective Oxidation of Isobutane by Means of XRD, TEM, and XAFS. Journal of Catalysis, 1997, 171, 457-466.	6.2	24
135	Vanadium(IV) complexes with picolinic acids in NaY zeolite cages Synthesis, characterization and catalytic behaviour. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 809-816.	1.7	24
136	In situ XAFS analysis of Pdâ€“Pt catalysts during hydrotreatment of model oil. Catalysis Today, 2006, 111, 199-204.	4.4	24
137	Adsorbed structure of copper and calcium dipivaloylmethanates on SiO2. Surface Science, 1992, 278, 175-182.	1.9	23
138	Synthesis and characterization of vanadium (IV) complexes in NaY zeolite supercages. Microporous and Mesoporous Materials, 1998, 21, 571-579.	4.4	23
139	A local structure of low coverage Ni species on the Î±-Al2O3 (0001) surface â€“ a polarization dependent EXAFS study. Chemical Physics Letters, 2004, 384, 134-138.	2.6	23
140	X-ray Absorption Fine Structure (XAFS) Analysis of Titanium-implanted Soft Tissue. Dental Materials Journal, 2007, 26, 268-273.	1.8	23
141	Structural analysis of strontium in human teeth treated with surface pre-reacted glass-ionomer filler eluate by using extended X-ray absorption fine structure analysis. Dental Materials Journal, 2017, 36, 214-221.	1.8	23
142	Selective isopentane formation from CH3OH on a new one-atomic layer ZrO2/ZSM-5 hybrid catalyst. Catalysis Letters, 1988, 1, 395-403.	2.6	22
143	Rhodium-niobia interaction in niobia-promoted Rh/SiO2 catalysts: formation of RhNbO4 on SiO2. Catalysis Today, 1990, 8, 85-97.	4.4	22
144	Monolayer structures of niobic acids supported on silica and their catalytic activities for esterification of acetic acid with ethanol. The Journal of Physical Chemistry, 1991, 95, 9999-10004.	2.9	22

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145	Structures and catalytic activity of Pt$z.sbnd;Mo bimetallic ensembles derived from a new planar 6PtMo6O2498$minus; heteropolyanion supported on Al2O3 and SiO2l. Characterization of the supported 6PtMo69 catalysts. Journal of Catalysis, 1992, 135, 367-385.	6.2	22
146	Catalysis on mesoscopic composite surfaces: Influence of palladium boundaries on pattern formation during CO oxidation on Pt(1 1 0). Physica D: Nonlinear Phenomena, 1998, 123, 493-501.	2.8	22
147	X-ray photoemission electron microscopy (XPEEM) as a new promising tool for the real-time chemical imaging of active surfaces. Journal of Molecular Catalysis A, 1999, 141, 129-137.	4.8	22
148	Surface catalytic reactions assisted by gas phase molecules: activation of reaction intermediates. Journal of Molecular Catalysis A, 2000, 163, 67-77.	4.8	22
149	Characterization of Rh Particles and Li-Promoted Rh Particles in Y Zeolite during CO2 Hydrogenationâ€"A New Mechanism for Catalysis Controlled by the Dynamic Structure of Rh Particles and the Li Additive Effect. Journal of Catalysis, 2000, 194, 91-104.	6.2	22
150	Origin of Self-Regulated Cluster Growth on the TiO₂(110) Surface Studied Using Polarization-Dependent Total Reflection Fluorescence XAFS. Journal of Physical Chemistry C, 2008, 112, 4667-4675.	3.1	22
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