

Tomoki Akita

List of Publications by Year in descending order

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150
papers

16,885
citations

19657

61
h-index

13771

129
g-index

158
all docs

158
docs citations

158
times ranked

18007
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Framework as a Template for Porous Carbon Synthesis. <i>Journal of the American Chemical Society</i> , 2008, 130, 5390-5391.	13.7	1,623
2	All-solid-state Z-scheme in CdS@Au@TiO ₂ three-component nanojunction system. <i>Nature Materials</i> , 2006, 5, 782-786.	27.5	1,266
3	From Metal-Organic Framework to Nanoporous Carbon: Toward a Very High Surface Area and Hydrogen Uptake. <i>Journal of the American Chemical Society</i> , 2011, 133, 11854-11857.	13.7	1,071
4	Synergistic Catalysis of Au@Ag Core-Shell Nanoparticles Stabilized on Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2011, 133, 1304-1306.	13.7	858
5	Au@ZIF-8: CO Oxidation over Gold Nanoparticles Deposited to Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2009, 131, 11302-11303.	13.7	772
6	Synergistic Catalysis of Metal-Organic Framework-Immobilized Au-Pd Nanoparticles in Dehydrogenation of Formic Acid for Chemical Hydrogen Storage. <i>Journal of the American Chemical Society</i> , 2011, 133, 11822-11825.	13.7	725
7	Au/TiO ₂ Nanosized Samples: A Catalytic, TEM, and FTIR Study of the Effect of Calcination Temperature on the CO Oxidation. <i>Journal of Catalysis</i> , 2001, 202, 256-267.	6.2	476
8	Deposition of Gold Clusters on Porous Coordination Polymers by Solid Grinding and Their Catalytic Activity in Aerobic Oxidation of Alcohols. <i>Chemistry - A European Journal</i> , 2008, 14, 8456-8460.	3.3	460
9	Analysis of electrocatalyst degradation in PEMFC caused by cell reversal during fuel starvation. <i>Journal of Power Sources</i> , 2004, 130, 42-49.	7.8	455
10	One-Step Seeding Growth of Magnetically Recyclable Au@Co Core-Shell Nanoparticles: Highly Efficient Catalyst for Hydrolytic Dehydrogenation of Ammonia Borane. <i>Journal of the American Chemical Society</i> , 2010, 132, 5326-5327.	13.7	453
11	Metal-Organic Framework-Derived Honeycomb-Like Open Porous Nanostructures as Precious-Metal-Free Catalysts for Highly Efficient Oxygen Electroreduction. <i>Advanced Materials</i> , 2016, 28, 6391-6398.	21.0	414
12	Aerobic Oxidation of Cyclohexane Catalyzed by Size-Controlled Au Clusters on Hydroxyapatite: Size Effect in the Sub-2 nm Regime. <i>ACS Catalysis</i> , 2011, 1, 2-6.	11.2	383
13	Platinum dissolution and deposition in the polymer electrolyte membrane of a PEM fuel cell as studied by potential cycling. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 746-752.	2.8	321
14	Hydrogen Dissociation by Gold Clusters. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9515-9518.	13.8	277
15	Efficient and selective epoxidation of styrene with TBHP catalyzed by Au ₂₅ clusters on hydroxyapatite. <i>Chemical Communications</i> , 2010, 46, 550-552.	4.1	271
16	Influence of the Support and the Size of Gold Clusters on Catalytic Activity for Glucose Oxidation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9265-9268.	13.8	264
17	Toward Homogenization of Heterogeneous Metal Nanoparticle Catalysts with Enhanced Catalytic Performance: Soluble Porous Organic Cage as a Stabilizer and Homogenizer. <i>Journal of the American Chemical Society</i> , 2015, 137, 7063-7066.	13.7	224
18	Propene Epoxidation with Dioxygen Catalyzed by Gold Clusters. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7862-7866.	13.8	206

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19	Hydrogenation of 1,3-butadiene and of crotonaldehyde over highly dispersed Au catalysts. <i>Catalysis Today</i> , 2002, 74, 265-269.	4.4	201
20	Bimetallic Au@Ni Nanoparticles Embedded in SiO ₂ Nanospheres: Synergetic Catalysis in Hydrolytic Dehydrogenation of Ammonia Borane. <i>Chemistry - A European Journal</i> , 2010, 16, 3132-3137.	3.3	196
21	Analysis of degradation in PEMFC caused by cell reversal during air starvation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 2323-2329.	7.1	182
22	Analytical TEM study on the dispersion of Au nanoparticles in Au/TiO ₂ catalyst prepared under various temperatures. <i>Surface and Interface Analysis</i> , 2001, 31, 73-78.	1.8	157
23	Gold clusters supported on alkaline treated TS-1 for highly efficient propene epoxidation with O ₂ and H ₂ . <i>Applied Catalysis B: Environmental</i> , 2010, 95, 430-438.	20.2	148
24	Heterogeneous Catalysis by Gold. <i>Advances in Catalysis</i> , 2012, 55, 1-126.	0.2	139
25	Intrinsic Catalytic Structure of Gold Nanoparticles Supported on TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7729-7733.	13.8	139
26	Strong metal-molecular support interaction (SMMSI): Amine-functionalized gold nanoparticles encapsulated in silica nanospheres highly active for catalytic decomposition of formic acid. <i>Journal of Materials Chemistry</i> , 2012, 22, 12582.	6.7	137
27	Preparation of ~1 nm Gold Clusters Confined within Mesoporous Silica and Microwave-Assisted Catalytic Application for Alcohol Oxidation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13457-13461.	3.1	136
28	Analytical TEM study of Pt particle deposition in the proton-exchange membrane of a membrane-electrode-assembly. <i>Journal of Power Sources</i> , 2006, 159, 461-467.	7.8	126
29	Low-temperature synthesis of anatase-brookite composite nanocrystals: the junction effect on photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2005, 281, 510-513.	9.4	119
30	Metal-Organic Framework-Immobilized Polyhedral Metal Nanocrystals: Reduction at Solid-Gas Interface, Metal Segregation, Core-Shell Structure, and High Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 16356-16359.	13.7	119
31	One-pot N-alkylation of primary amines to secondary amines by gold clusters supported on porous coordination polymers. <i>Gold Bulletin</i> , 2009, 42, 267-274.	2.7	118
32	Direct Production of Hydrogen Peroxide from H ₂ and O ₂ over Highly Dispersed Au catalysts. <i>Chemistry Letters</i> , 2003, 32, 822-823.	1.3	113
33	Three-Dimensional Mesoporous Titanosilicates Prepared by Modified Sol-Gel Method: An Ideal Gold Catalyst Supports for Enhanced Propene Epoxidation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3956-3965.	2.6	112
34	Propene epoxidation with O ₂ and H ₂ : Identification of the most active gold clusters. <i>Journal of Catalysis</i> , 2011, 278, 8-15.	6.2	112
35	A one-pot protocol for synthesis of non-noble metal-based core-shell nanoparticles under ambient conditions: toward highly active and cost-effective catalysts for hydrolytic dehydrogenation of NH ₃ BH ₃ . <i>Chemical Communications</i> , 2011, 47, 10999.	4.1	107
36	Facile synthesis and catalytic activity of MoS ₂ /TiO ₂ by a photodeposition-based technique and its oxidized derivative MoO ₃ /TiO ₂ with a unique photochromism. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 607-610.	9.4	105

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37	Electron Microscopy Study of Gold Nanoparticles Deposited on Transition Metal Oxides. <i>Accounts of Chemical Research</i> , 2013, 46, 1773-1782.	15.6	100
38	Au-Core/Pt-Shell Bimetallic Cluster-Loaded TiO ₂ . 1. Adsorption of Organosulfur Compound. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8714-8720.	2.6	97
39	Ultrafine Gold Clusters Incorporated into a Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2011, 17, 78-81.	3.3	97
40	Epoxidation of propylene over gold catalysts supported on non-porous silica. <i>Applied Catalysis A: General</i> , 2001, 218, 81-89.	4.3	96
41	Switching of reactions between hydrogenation and epoxidation of propene over Au/Ti-based oxides in the presence of H ₂ and O ₂ . <i>Journal of Catalysis</i> , 2011, 281, 12-20.	6.2	95
42	Photodeposition of Ag ₂ S Quantum Dots and Application to Photoelectrochemical Cells for Hydrogen Production under Simulated Sunlight. <i>Langmuir</i> , 2011, 27, 7294-7300.	3.5	94
43	Preparation and catalytic reaction of Au/Pd bimetallic nanoparticles in Apo-ferritin. <i>Chemical Communications</i> , 2009, , 4871.	4.1	92
44	CO Oxidation below Room Temperature over Ir/TiO ₂ Catalyst Prepared by Deposition Precipitation Method. <i>Journal of Catalysis</i> , 2002, 208, 485-489.	6.2	87
45	Photodeposition of CdS Quantum Dots on TiO ₂ : Preparation, Characterization, and Reaction Mechanism. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16711-16716.	3.1	86
46	Transmission electron microscopy observation of the structure of TiO ₂ nanotube and Au/TiO ₂ nanotube catalyst. <i>Surface and Interface Analysis</i> , 2005, 37, 265-269.	1.8	85
47	Analytical TEM observation of Au nano-particles on cerium oxide. <i>Catalysis Today</i> , 2006, 117, 62-68.	4.4	84
48	Surfactant-free Pd nanoparticles immobilized to a metal-organic framework with size- and location-dependent catalytic selectivity. <i>Chemical Communications</i> , 2015, 51, 2577-2580.	4.1	83
49	Aerobic oxidation of glucose over gold nanoparticles deposited on cellulose. <i>Applied Catalysis A: General</i> , 2010, 377, 42-46.	4.3	81
50	From ionic-liquid@metal-organic framework composites to heteroatom-decorated large-surface area carbons: superior CO ₂ and H ₂ uptake. <i>Chemical Communications</i> , 2014, 50, 6498.	4.1	81
51	Size-dependence of Fermi energy of gold nanoparticles loaded on titanium(IV) dioxide at photostationary state. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6553.	2.8	78
52	Characteristics of a Platinum Black Catalyst Layer with Regard to Platinum Dissolution Phenomena in a Membrane Electrode Assembly. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1599.	2.9	77
53	One-step synthesis of magnetically recyclable Au/Co/Fe triple-layered core-shell nanoparticles as highly efficient catalysts for the hydrolytic dehydrogenation of ammonia borane. <i>Nano Research</i> , 2011, 4, 1233-1241.	10.4	77
54	Deposition of gold nanoparticles on carbons for aerobic glucose oxidation. <i>Applied Catalysis A: General</i> , 2009, 369, 8-14.	4.3	76

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55	Synthesis of small palladium nanoparticles stabilized by bisphosphine BINAP bearing an alkyl chain and their palladium nanoparticle-catalyzed carbon-carbon coupling reactions under room-temperature. <i>Chemical Communications</i> , 2006, , 3349-3351.	4.1	74
56	Highly selective oxidation of allylic alcohols catalysed by monodispersed 8-shell Pd nanoclusters in the presence of molecular oxygen. <i>New Journal of Chemistry</i> , 2003, 27, 324-328.	2.8	70
57	Comparative study of carbon-supported Pt/Mo-oxide and PtRu for use as CO-tolerant anode catalysts. <i>Electrochimica Acta</i> , 2006, 52, 491-498.	5.2	70
58	Effect of surface chemical properties and texture of mesoporous titanosilicates on direct vapor-phase epoxidation of propylene over Au catalysts at high reaction temperature. <i>Applied Catalysis A: General</i> , 2003, 253, 75-89.	4.3	65
59	Study of Surface Reaction of Spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ during the First Lithium Insertion and Extraction Processes Using Atomic Force Microscopy and Analytical Transmission Electron Microscopy. <i>Langmuir</i> , 2012, 28, 12384-12392.	3.5	65
60	Support effects of metal oxides on gold-catalyzed one-pot N-alkylation of amine with alcohol. <i>Applied Catalysis A: General</i> , 2012, 413-414, 261-266.	4.3	65
61	Kinetic and DFT Studies on the Ag/TiO ₂ -Photocatalyzed Selective Reduction of Nitrobenzene to Aniline. <i>ChemPhysChem</i> , 2005, 6, 1537-1543.	2.1	64
62	Novel Formation of Ag/Au Bimetallic Nanoparticles by Physical Mixture of Monometallic Nanoparticles in Dispersions and Their Application to Catalysts for Aerobic Glucose Oxidation. <i>Langmuir</i> , 2013, 29, 10330-10339.	3.5	62
63	Multi-component noble metal catalysts prepared by sequential deposition precipitation for low temperature decomposition of dioxin. <i>Applied Catalysis B: Environmental</i> , 2003, 41, 43-52.	20.2	60
64	Characterization of two phase distribution in electrochemically-lithiated spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ secondary particles by electron energy-loss spectroscopy. <i>Journal of Power Sources</i> , 2013, 237, 26-32.	7.8	60
65	Vapor-phase epoxidation of propylene using H ₂ /O ₂ mixture over gold catalysts supported on non-porous and mesoporous titania-silica: effect of preparation conditions and pretreatments prior to reaction. <i>Applied Catalysis A: General</i> , 2004, 263, 19-26.	4.3	56
66	Gas-phase epoxidation of propylene through radicals generated by silica-supported molybdenum oxide. <i>Applied Catalysis A: General</i> , 2007, 316, 142-151.	4.3	56
67	Base-Free Direct Oxidation of 1-Octanol to Octanoic Acid and its Octyl Ester over Supported Gold Catalysts. <i>ChemSusChem</i> , 2012, 5, 2243-2248.	6.8	52
68	Participation of Oxygen in Charge/Discharge Reactions in $\text{Li}_{1.2}\text{Mn}_{0.4}\text{Fe}_{0.4}\text{O}_2$: Evidence of Removal/Reinsertion of Oxide Ions. <i>Journal of the Electrochemical Society</i> , 2011, 158, A760-A768.	2.9	51
69	Platinum-titanium alloy catalysts on a Magnéli-phase titanium oxide support for improved durability in Polymer Electrolyte Fuel Cells. <i>Journal of Power Sources</i> , 2013, 223, 183-189.	7.8	51
70	Electronic band properties of gold nanoclusters grown on amorphous carbon. <i>Physical Review B</i> , 2011, 83, .	3.2	50
71	Mechanism of Low-Temperature CO Oxidation on Pt/Fe-Containing Alumina Catalysts Pretreated with Water. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1268-1277.	3.1	45
72	Two-phase separation in a lithiated spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ crystal as confirmed by electron energy-loss spectroscopy. <i>Journal of Power Sources</i> , 2014, 257, 120-125.	7.8	45

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73	Coexistence of layered and cubic rocksalt structures with a common oxygen sublattice in Li _{1.2} Mn _{0.4} Fe _{0.4} O ₂ particles: A transmission electron microscopy study. <i>Journal of Applied Physics</i> , 2008, 103, 104911.	2.5	44
74	Low-temperature CO oxidation properties and TEM/STEM observation of Au/γ-Fe ₂ O ₃ catalysts. <i>Journal of Catalysis</i> , 2015, 324, 127-132.	6.2	43
75	Au nanoparticle electrocatalysis in a photoelectrochemical solar cell using CdS quantum dot-sensitized TiO ₂ photoelectrodes. <i>Chemical Communications</i> , 2009, , 2011.	4.1	42
76	Corrosion-Resistant PEMFC Cathode Catalysts Based on a Magneli-Phase Titanium Oxide Support Synthesized by Pulsed UV Laser Irradiation. <i>Journal of the Electrochemical Society</i> , 2011, 158, C329.	2.9	41
77	Gold clusters supported on La(OH) ₃ for CO oxidation at 193K. <i>Chemical Physics Letters</i> , 2010, 493, 207-211.	2.6	37
78	Size Effect of Silica-supported Gold Clusters in the Microwave-assisted Oxidation of Benzyl Alcohol with H ₂ O ₂ . <i>Chemistry Letters</i> , 2010, 39, 159-161.	1.3	35
79	Analytical TEM observation of Au and Ir deposited on rutile TiO ₂ . <i>Journal of Electron Microscopy</i> , 2003, 52, 119-124.	0.9	33
80	Promotional effect of Au on reduction of Ni(II) to form Au-Ni alloy catalysts for hydrogenolysis of benzylic alcohols. <i>Journal of Catalysis</i> , 2013, 307, 254-264.	6.2	32
81	Size-Controlled Synthesis of Gold Clusters as Efficient Catalysts for Aerobic Oxidation. <i>Catalysis Surveys From Asia</i> , 2011, 15, 230-239.	2.6	31
82	TEM and HAADF-STEM study of the structure of Au nano-particles on CeO ₂ . <i>Journal of Materials Science</i> , 2008, 43, 3917-3922.	3.7	30
83	Irreversible structural change of a spinel Li ₄ Ti ₅ O ₁₂ particle via Na insertion-extraction cycles of a sodium-ion battery. <i>Electrochimica Acta</i> , 2014, 148, 175-179.	5.2	30
84	Formation of electro-conductive titanium oxide fine particles by pulsed UV laser irradiation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7529.	2.8	29
85	Preparation of microporous polymer-encapsulated Pd nanoparticles and their catalytic performance for hydrogenation and oxidation. <i>Tetrahedron</i> , 2014, 70, 6150-6155.	1.9	29
86	Atomistic structure of a spinel Li ₄ Ti ₅ O ₁₂ (111) surface elucidated by scanning tunneling microscopy and medium energy ion scattering spectrometry. <i>Surface Science</i> , 2014, 619, 5-9.	1.9	29
87	Electron holographic 3-D nano-analysis of Au/TiO ₂ catalyst at interface. <i>Journal of Electron Microscopy</i> , 2003, 52, 21-26.	0.9	28
88	Analytical TEM study on structural changes of Au particles on cerium oxide using a heating holder. <i>Catalysis Today</i> , 2007, 122, 233-238.	4.4	28
89	Preparation of a spinel Li ₄ Ti ₅ O ₁₂ (111) surface from a rutile TiO ₂ single crystal. <i>Applied Surface Science</i> , 2012, 258, 3147-3151.	6.1	26
90	Characterization of the Surface of LiCoO ₂ Particles Modified by Al and Si Oxide Using Analytical TEM. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2293-A2298.	2.9	26

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91	Sequential HAADF-STEM observation of structural changes in Au nanoparticles supported on CeO ₂ . Journal of Materials Science, 2011, 46, 4384-4391.	3.7	24
92	Atomic and electronic structures of Li ₄ Ti ₅ O ₁₂ /Li ₇ Ti ₅ O ₁₂ (001) interfaces by first-principles calculations. Journal of Materials Science, 2014, 49, 4032-4037.	3.7	24
93	Ultrafast Photodeposition of Size-Controlled PbS Quantum Dots on TiO ₂ . ChemPhysChem, 2010, 11, 2349-2352.	2.1	21
94	Characterization of Surface of LiCoO ₂ Modified by Zr Oxides Using Analytical Transmission Electron Microscopy. Journal of the Electrochemical Society, 2014, 161, A1521-A1526.	2.9	21
95	Spontaneous Li-Ion Transfer from Spinel Li ₄ Ti ₅ O ₁₂ Surfaces: Deterioration at Li ₄ Ti ₅ O ₁₂ /Electrolyte Interfaces Stored at Room Temperature. Journal of the Electrochemical Society, 2015, 162, A1272-A1275.	2.9	20
96	Surface Properties and Photocatalytic Activity of Pt _{core} /Ag _{shell} Nanoparticle-Loaded TiO ₂ . ChemPhysChem, 2006, 7, 1687-1691.	2.1	19
97	A green process for coupling manganese oxides with titanium(IV) dioxide. Chemical Communications, 2008, , 3564.	4.1	19
98	Formation and Disappearance of Spinel Nanograins in Li _{1.2-x} Mn _{0.4} Fe _{0.4} O ₂ (O _x = 0.99) during Extraction and Insertion of Li Ions. Journal of the Electrochemical Society, 2009, 156, A839.	2.9	19
99	Synergistic effects of Ni and Cu supported on TiO ₂ and SiO ₂ on photocatalytic H ₂ evolution with an electron donor-acceptor linked molecule. Catalysis Science and Technology, 2015, 5, 979-988.	4.1	19
100	Preparation of a spinel LiMn ₂ O ₄ single crystal film from a MnO wafer. Journal of Power Sources, 2013, 232, 7-11.	7.8	18
101	High Activity of Gold/Tin-Dioxide Catalysts for Low-Temperature CO Oxidation: Application of a Reducible Metal Oxide to a Catalyst Support. Catalysis Letters, 2014, 144, 2086-2090.	2.6	17
102	Characterization of MgO-coated-LiCoO ₂ particles by analytical transmission electron microscopy. Journal of Power Sources, 2016, 328, 161-166.	7.8	17
103	SEM and RHEED-REM Study of Au Particles Deposited on Rutile TiO ₂ (110) by Deposition Precipitation and Gas-Phase Grafting Methods. Journal of Catalysis, 2002, 212, 119-123.	6.2	16
104	First-principles calculations of O-K ELNES/XANES of lithium titanate. Journal Physics D: Applied Physics, 2012, 45, 494004.	2.8	16
105	Effect of CeO ₂ support properties on structure of Pt-Cu nanoparticles synthesized by electron beam irradiation method for preferential CO oxidation. Chemical Engineering Journal, 2013, 223, 347-355.	12.7	14
106	Theoretical Studies of the Atomic and Electronic Structure of Nano-Hetero Metal/Inorganic Material Interfaces in Collaboration with Electron Microscopy Observations. Materials Transactions, 2007, 48, 675-683.	1.2	13
107	Practical analysis of Li distribution by EELS. Surface and Interface Analysis, 2016, 48, 1226-1230.	1.8	13
108	Atomic and Electronic Structures of Li _{0.44} MnO ₂ Nanowires and Li ₂ MnO ₃ Byproducts in the Formation Process of LiMn ₂ O ₄ Nanowires. Journal of Physical Chemistry C, 2010, 114, 18358-18365.	3.1	11

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109	Degradation Analysis of LiCoO_2 Positive Electrode Material of a Li-Ion Battery Using the Li K-Edge Signal Obtained from STEM-EELS Measurements. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015, 13, 284-288.	0.4	11
110	Visualization of the distribution of anatase and rutile TiO_2 crystals in Au/TiO_2 powder catalysts by STEM-EELS spectrum imaging. <i>Surface and Interface Analysis</i> , 2014, 46, 1249-1252.	1.8	10
111	Cooperative catalysis of palladium nanoparticles and cobalt oxide support for formylation of aryl iodides under syngas atmosphere. <i>Applied Catalysis A: General</i> , 2014, 469, 146-152.	4.3	10
112	Li-vapor induction growth of single-crystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}$ specimen for transmission electron microscopy. <i>Surface and Interface Analysis</i> , 2014, 46, 1245-1248.	1.8	10
113	Structural analyses by TEM of iridium deposited on TiO_2 powder and rutile single crystal. <i>Journal of Electron Microscopy</i> , 2004, 53, 29-35.	0.9	8
114	Kinetic and DFT Studies on the Photoinduced Desorption of Sulfur from Gold Nanoparticles Loaded on Titanium Dioxide. <i>ChemPhysChem</i> , 2005, 6, 2508-2512.	2.1	8
115	Tunneling electron transport of silicon nanochains studied by in situ scanning electron microscopy. <i>Applied Physics Letters</i> , 2006, 89, 233124.	3.3	8
116	TEM and STEM Study of the Au Nano-Particles Supported on Cerium Oxides. <i>Materials Science Forum</i> , 2010, 654-656, 2362-2365.	0.3	8
117	Transmission electron microscopy investigation of the $\text{LiMn}_2\text{O}_4/\text{Na}_x\text{MnO}_2$ interface as a model study of a Na-ion battery electrode. <i>AIP Advances</i> , 2016, 6, .	1.3	8
118	TEM and HAADF-STEM study of a Au catalyst supported on a TiO_2 nano-rod. <i>Journal of Electron Microscopy</i> , 2001, 50, 473-477.	0.9	7
119	Adsorption of 2,2'-Dipyridyl Disulfide on Au/Pt Core/Shell Bimetallic Clusters Loaded on TiO_2 : Fine Control of Adsorptivity for Organosulfur Compounds. <i>ChemPhysChem</i> , 2002, 3, 617-620.	2.1	7
120	Instruments for preparation of heterogeneous catalysts by an impregnation method. <i>Review of Scientific Instruments</i> , 2005, 76, 062226.	1.3	7
121	First-Principles Calculations of Pd/Au(100) Interfaces with Adsorbates. <i>Solid State Phenomena</i> , 2008, 139, 47-52.	0.3	7
122	Synthesis of carbon-supported PtRh random alloy nanoparticles using electron beam irradiation reduction method. <i>Radiation Physics and Chemistry</i> , 2016, 122, 9-14.	2.8	7
123	TEM observations of Au and Ir particles supported on CeO_2 . <i>Microscopy (Oxford, England)</i> , 2005, 54, i81-i85.	1.5	6
124	Radiochemical synthesis of a carbon-supported Pt-SnO ₂ bicomponent nanostructure exhibiting enhanced catalysis of ethanol oxidation. <i>Radiation Physics and Chemistry</i> , 2015, 108, 1-6.	2.8	6
125	Local Barrier Height of Ir/ TiO_2 Model Catalysts. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 4595-4598.	1.5	5
126	First-Principles Calculations of the Atomic and Electronic Structures in Au-Pd Slab Interfaces. <i>Solid State Phenomena</i> , 2008, 139, 29-34.	0.3	5

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127	CO Oxidation Properties and Scanning Transmission Electron Microscopy Observation of Au/SrTiO ₃ Catalysts. <i>Catalysis Letters</i> , 2018, 148, 3035-3041.	2.6	5
128	Deposition of gold clusters onto porous coordination polymers by solid grinding. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 839-842.	1.5	4
129	Surface characterization for sputter-cone formation on InP(100). <i>Surface Science</i> , 1998, 412-413, 24-29.	1.9	3
130	TEM observation of CuBr nanoparticles prepared by copper diffusion process in a glass matrix. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 852-855.	3.1	3
131	A Simultaneous Solid Grinding Method for the Preparation of Gold Catalysts. <i>Catalysis Letters</i> , 2016, 146, 2376-2380.	2.6	3
132	Observation of Reconstructed Pt(100) Surface by Reflection Electron Microscopy. <i>Japanese Journal of Applied Physics</i> , 1993, 32, L1631-L1634.	1.5	1
133	Preparation of iridium catalysts by deposition precipitation: room temperature oxidation of CO. <i>Studies in Surface Science and Catalysis</i> , 2000, 143, 345-352.	1.5	1
134	Nanoscale characterization of Pd/TiO ₂ catalysts and Ag/TiO ₂ catalysts by electron holography. <i>Materials Research Society Symposia Proceedings</i> , 2005, 900, 1.	0.1	1
135	TEM and STEM study of the Au nano-particles supported on metal oxides. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1026, 1.	0.1	1
136	A new type of molybdenum oxide crystal encapsulated inside a single-walled carbon nanotube. <i>Microscopy (Oxford, England)</i> , 2013, 62, 271-282.	1.5	1
137	Lithium Distribution Maps by Scanning Transmission Electron Microscopy (STEM)-Electron Energy Loss Spectroscopy (EELS). <i>Journal of the Vacuum Society of Japan</i> , 2015, 58, 367-374.	0.3	1
138	Highly Selective Oxidation of Allylic Alcohols Catalyzed by Monodispersed 8-Shell Pd Nanoclusters in the Presence of Molecular Oxygen.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
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