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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

170 papers	10,305 citations	50 h-index	98 g-index
178 ext. papers	11,921 ext. citations	9.5 avg, IF	6.67 L-index

#	Paper	IF	Citations
170	Shaping binary metal nanocrystals through epitaxial seeded growth. <i>Nature Materials</i> , 2007 , 6, 692-7	27	1073
169	Platinum nanoparticle shape effects on benzene hydrogenation selectivity. <i>Nano Letters</i> , 2007 , 7, 3097-1015	10.15	747
168	Morphological control of catalytically active platinum nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7824-8	16.4	572
167	Single-Atom Catalyst of Platinum Supported on Titanium Nitride for Selective Electrochemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2058-62	16.4	537
166	Localized Pd overgrowth on cubic Pt nanocrystals for enhanced electrocatalytic oxidation of formic acid. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5406-7	16.4	383
165	Support Effects in Single-Atom Platinum Catalysts for Electrochemical Oxygen Reduction. <i>ACS Catalysis</i> , 2017 , 7, 1301-1307	13.1	276
164	Synthesis of functionalized porous silicas via templating method as heavy metal ion adsorbents: the introduction of surface hydrophilicity onto the surface of adsorbents. <i>Microporous and Mesoporous Materials</i> , 2001 , 50, 77-90	5.3	247
163	A combination of two visible-light responsive photocatalysts for achieving the Z-scheme in the solid state. <i>ACS Nano</i> , 2011 , 5, 4084-90	16.7	192
162	Selective Activation of Methane on Single-Atom Catalyst of Rhodium Dispersed on Zirconia for Direct Conversion. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17694-17699	16.4	186
161	Morphological Control of Catalytically Active Platinum Nanocrystals. <i>Angewandte Chemie</i> , 2006 , 118, 7988-7992	3.6	175
160	Balancing activity, stability and conductivity of nanoporous core-shell iridium/iridium oxide oxygen evolution catalysts. <i>Nature Communications</i> , 2017 , 8, 1449	17.4	168
159	Uncoupling the size and support effects of Ni catalysts for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 625-632	21.8	164
158	A combustion-free methodology for synthesizing zeolites and zeolite-like materials. <i>Nature</i> , 2003 , 425, 385-8	50.4	161
157	Influence of Aspect Ratio of TiO ₂ Nanorods on the Photocatalytic Decomposition of Formic Acid. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3050-3055	3.8	157
156	Single-Atom Catalysts of Precious Metals for Electrochemical Reactions. <i>ChemSusChem</i> , 2018 , 11, 104-113	13.3	154
155	The Role of Organic Capping Layers of Platinum Nanoparticles in Catalytic Activity of CO Oxidation. <i>Catalysis Letters</i> , 2009 , 129, 1-6	2.8	149
154	Ultrathin IrO ₂ Nanoneedles for Electrochemical Water Oxidation. <i>Advanced Functional Materials</i> , 2018 , 28, 1704796	15.6	139

153	Investigation of the Support Effect in Atomically Dispersed Pt on WO for Utilization of Pt in the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16038-16042	16.4	133
152	Probing hot electron flow generated on Pt nanoparticles with Au/TiO ₂ Schottky diodes during catalytic CO oxidation. <i>Nano Letters</i> , 2008 , 8, 2388-92	11.5	128
151	Highly coke-resistant ni nanoparticle catalysts with minimal sintering in dry reforming of methane. <i>ChemSusChem</i> , 2014 , 7, 451-6	8.3	119
150	Highly Durable Platinum Single-Atom Alloy Catalyst for Electrochemical Reactions. <i>Advanced Energy Materials</i> , 2018 , 8, 1701476	21.8	110
149	Atomically Dispersed Platinum on Gold Nano-Octahedra with High Catalytic Activity on Formic Acid Oxidation. <i>ACS Catalysis</i> , 2013 , 3, 437-443	13.1	110
148	General technoeconomic analysis for electrochemical coproduction coupling carbon dioxide reduction with organic oxidation. <i>Nature Communications</i> , 2019 , 10, 5193	17.4	109
147	Selective conversion of glycerol to 1,3-propanediol using Pt-sulfated zirconia. <i>Green Chemistry</i> , 2011 , 13, 2004	10	105
146	Promoting Effects of Hydrothermal Treatment on the Activity and Durability of Pd/CeO ₂ Catalysts for CO Oxidation. <i>ACS Catalysis</i> , 2017 , 7, 7097-7105	13.1	100
145	Structure dependent active sites of Ni _x S _y as electrocatalysts for hydrogen evolution reaction. <i>Nanoscale</i> , 2015 , 7, 5157-63	7.7	100
144	Shape effects of cuprous oxide particles on stability in water and photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 156-162	13	99
143	Performance of shape-controlled Pd nanoparticles in the selective hydrogenation of acetylene. <i>Journal of Catalysis</i> , 2013 , 306, 146-154	7.3	94
142	Heteropolyacid supported on Zr-Beta zeolite as an active catalyst for one-pot transformation of furfural to Valerolactone. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 588-597	21.8	94
141	Fully Dispersed Rh Ensemble Catalyst To Enhance Low-Temperature Activity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9558-9565	16.4	89
140	Highly durable metal ensemble catalysts with full dispersion for automotive applications beyond single-atom catalysts. <i>Nature Catalysis</i> , 2020 , 3, 368-375	36.5	87
139	Sn-doped Ni/YSZ anode catalysts with enhanced carbon deposition resistance for an intermediate temperature SOFC. <i>Applied Catalysis B: Environmental</i> , 2010 , 97, 108-114	21.8	87
138	Single-Atom Catalyst of Platinum Supported on Titanium Nitride for Selective Electrochemical Reactions. <i>Angewandte Chemie</i> , 2016 , 128, 2098-2102	3.6	81
137	Employing electrostatic self-assembly of tailored nickel sulfide nanoparticles for quasi-solid-state dye-sensitized solar cells with Pt-free counter electrodes. <i>Chemical Communications</i> , 2012 , 48, 9501-3	5.8	80
136	Shape effect of ceria in Cu/ceria catalysts for preferential CO oxidation. <i>Journal of Molecular Catalysis A</i> , 2011 , 335, 82-88		78

135	Direct conversion of cellulose into sorbitol using dual-functionalized catalysts in neutral aqueous solution. <i>Catalysis Communications</i> , 2012 , 19, 115-118	3.2	75
134	Enhanced stability of NiFe/GDC solid oxide fuel cell anodes for dry methane fuel. <i>Catalysis Communications</i> , 2010 , 12, 36-39	3.2	73
133	Distinct activation of Cu-MOR for direct oxidation of methane to methanol. <i>Chemical Communications</i> , 2017 , 53, 4116-4119	5.8	71
132	Steam treatment on Ni/Al ₂ O ₃ for enhanced carbon resistance in combined steam and carbon dioxide reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2013 , 134-135, 103-109	21.8	71
131	Rational Design of TiC-Supported Single-Atom Electrocatalysts for Hydrogen Evolution and Selective Oxygen Reduction Reactions. <i>ACS Energy Letters</i> , 2019 , 4, 126-132	20.1	69
130	Change in the catalytic reactivity of Pt nanocubes in the presence of different surface-capping agents. <i>Catalysis Communications</i> , 2009 , 10, 1305-1309	3.2	60
129	Highly Water-Resistant La-Doped Co ₃ O ₄ Catalyst for CO Oxidation. <i>ACS Catalysis</i> , 2019 , 9, 10093-10100	13.1	57
128	105 Cyclable Pseudocapacitive Na-Ion Storage of Hierarchically Structured Phosphorus-Incorporating Nanoporous Carbons in Organic Electrolytes. <i>ACS Energy Letters</i> , 2018 , 3, 724-732	20.1	57
127	Facile preparation of high performance visible light sensitive photo-catalysts. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 241-247	21.8	57
126	Effective depolymerization of concentrated acid hydrolysis lignin using a carbon-supported ruthenium catalyst in ethanol/formic acid media. <i>Bioresource Technology</i> , 2017 , 234, 424-431	11	54
125	Shaped Ir-Ni bimetallic nanoparticles for minimizing Ir utilization in oxygen evolution reaction. <i>Chemical Communications</i> , 2016 , 52, 5641-4	5.8	54
124	Energy-efficient CO hydrogenation with fast response using photoexcitation of CO adsorbed on metal catalysts. <i>Nature Communications</i> , 2018 , 9, 3027	17.4	54
123	Platinum nanoparticles encapsulated by aminopeptidase: a multifunctional bioinorganic nanohybrid catalyst. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11924-9	16.4	54
122	Amine-Functionalized Covalent Organic Framework for Efficient SO ₂ Capture with High Reversibility. <i>Scientific Reports</i> , 2017 , 7, 557	4.9	52
121	Spectroscopic study of tetradecyltrimethylammonium bromide Pt-C14TAB nanoparticles: structure and stability. <i>Langmuir</i> , 2009 , 25, 6665-71	4	51
120	Production of high carbon number hydrocarbon fuels from a lignin-derived EO-4 phenolic dimer, benzyl phenyl ether, via isomerization of ether to alcohols on high-surface-area silica-alumina aerogel catalysts. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 668-676	21.8	50
119	Electronic structure modification of platinum on titanium nitride resulting in enhanced catalytic activity and durability for oxygen reduction and formic acid oxidation. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 35-42	21.8	50
118	REMOVAL OF COPPER IONS USING FUNCTIONALIZED MESOPOROUS SILICA IN AQUEOUS SOLUTION. <i>Separation Science and Technology</i> , 2001 , 36, 2433-2448	2.5	49

117	Synthesis of biolubricants using sulfated zirconia catalysts. <i>Applied Catalysis A: General</i> , 2013 , 455, 164-171	3.1	48
116	Enhanced activity and durability of Ru catalyst dispersed on zirconia for dry reforming of methane. <i>Catalysis Today</i> , 2017 , 293-294, 122-128	5.3	47
115	Au-doped PtCo/C catalyst preventing Co leaching for proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2019 , 247, 142-149	21.8	47
114	Utilization of shape-controlled nanoparticles as catalysts with enhanced activity and selectivity. <i>RSC Advances</i> , 2014 , 4, 41017-41027	3.7	47
113	Electrochemical CO ₂ reduction using alkaline membrane electrode assembly on various metal electrodes. <i>Journal of CO₂ Utilization</i> , 2019 , 31, 244-250	7.6	44
112	Platinum dendrites with controlled sizes for oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2010 , 12, 1596-1599	5.1	43
111	Controlling the Oxidation State of Pt Single Atoms for Maximizing Catalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20691-20696	16.4	38
110	Changes in the oxidation state of Pt single-atom catalysts upon removal of chloride ligands and their effect for electrochemical reactions. <i>Chemical Communications</i> , 2019 , 55, 6389-6392	5.8	37
109	Shape-Controlled Nanocrystals for Catalytic Applications. <i>Catalysis Surveys From Asia</i> , 2012 , 16, 14-27	2.8	37
108	Confinement of sulfur in the micropores of honeycomb-like carbon derived from lignin for lithium-sulfur battery cathode. <i>Chemical Engineering Journal</i> , 2020 , 382, 122946	14.7	37
107	Tuning the band-gap energy of TiO ₂ -xCx nanoparticle for high performance photo-catalyst. <i>Electrochemistry Communications</i> , 2010 , 12, 769-772	5.1	36
106	Palladium Single-Atom Catalysts Supported on C@C ₃ N ₄ for Electrochemical Reactions. <i>ChemElectroChem</i> , 2019 , 6, 4757-4764	4.3	35
105	Enhancing stability of octahedral PtNi nanoparticles for oxygen reduction reaction by halide treatment. <i>Journal of Power Sources</i> , 2016 , 307, 883-890	8.9	35
104	Shape effect of Pt nanocrystals on electrocatalytic hydrogenation. <i>Catalysis Communications</i> , 2009 , 11, 7-10	3.2	34
103	Selective hydrogenation of furanic aldehydes using Ni nanoparticle catalysts capped with organic molecules. <i>Journal of Catalysis</i> , 2016 , 344, 609-615	7.3	33
102	Investigation of the Support Effect in Atomically Dispersed Pt on WO ₃ for Utilization of Pt in the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 16184-16188	3.6	33
101	Surface Plasmon Aided Ethanol Dehydrogenation Using AgNi Binary Nanoparticles. <i>ACS Catalysis</i> , 2017 , 7, 2294-2302	13.1	32
100	Characterization of photocatalytic performance of silver deposited TiO ₂ nanorods. <i>Electrochemistry Communications</i> , 2009 , 11, 363-366	5.1	32

- 99 Zeolite synthesis using degradable structure-directing agents and pore-filling agents. *Journal of Physical Chemistry B*, **2005**, 109, 2187-91 3.4 32
- 98 Heterogeneous Atomic Catalysts Overcoming the Limitations of Single-Atom Catalysts. *ACS Nano*, **2020**, 14, 14355-14374 16.7 32
- 97 Synthesis of alumina-carbon composite material for the catalytic conversion of furfural to furfuryl alcohol. *Journal of Industrial and Engineering Chemistry*, **2017**, 52, 59-65 6.3 31
- 96 Heterogeneous catalysts for catalytic CO₂ conversion into value-added chemicals. *BMC Chemical Engineering*, **2019**, 1, 3.5 31
- 95 In situ shaping of Pt nanoparticles directly overgrown on carbon supports. *Chemical Communications*, **2012**, 5.8 31
- 94 Surface-specific overgrowth of platinum on shaped gold nanocrystals. *Physical Chemistry Chemical Physics*, **2009**, 11, 9759-65 3.6 31
- 93 Surfactant-assisted synthesis of MgO: Characterization and catalytic activity on the transesterification of dimethyl carbonate with glycerol. *Applied Catalysis A: General*, **2014**, 484, 33-38 5.1 30
- 92 Heteropolyacid catalysts for Diels-Alder cycloaddition of 2,5-dimethylfuran and ethylene to renewable p-xylene. *Catalysis Today*, **2017**, 293-294, 167-175 5.3 29
- 91 ClickPreparation of CuPt nanorod-anchored graphene oxide as a catalyst in water. *Small*, **2012**, 8, 3161-8 4.8 28
- 90 Highly durable fuel cell catalysts using crosslinkable block copolymer-based carbon supports with ultralow Pt loadings. *Energy and Environmental Science*, **2020**, 13, 4921-4929 35.4 28
- 89 Water-Assisted Selective Hydrodeoxygenation of Lignin-Derived Guaiacol to Monooxygenates. *ChemCatChem*, **2015**, 7, 2669-2674 5.2 27
- 88 Enhanced electrocatalytic performance due to anomalous compressive strain and superior electron retention properties of highly porous Pt nanoparticles. *Journal of Catalysis*, **2012**, 291, 69-78 7.3 26
- 87 Three-dimensional reduced-symmetry of colloidal plasmonic nanoparticles. *Nano Letters*, **2012**, 12, 2436-40 11.5 26
- 86 PtRu nano-dandelions on thiolated carbon nanotubes: a new synthetic strategy for supported bimetallic core-shell clusters on the atomic scale. *Chemical Communications*, **2010**, 46, 2085-7 5.8 26
- 85 Facile preparation of water soluble CuPt nanorods with controlled aspect ratio and study on their catalytic properties in water. *Journal of Materials Chemistry*, **2011**, 21, 11956 26
- 84 Shaped Ni nanoparticles with an unconventional hcp crystalline structure. *Chemical Communications*, **2014**, 50, 6353-6 5.8 25
- 83 Nitrile-functionalized tertiary amines as highly efficient and reversible SO₂ absorbents. *Journal of Hazardous Materials*, **2014**, 264, 136-43 12.8 25
- 82 Highly Selective Production of Acrylic Acid from Glycerol via Two Steps Using Au/CeO₂ Catalysts. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 11371-11376 8.3 25

81	Effect of TiO ₂ nanoparticle shape on hydrogen evolution via water splitting. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1688-91	1.3	25
80	Shape- and Composition-Controlled Pt ₁ Fe ₁ Nanoparticles for Electrocatalytic Methanol Oxidation. <i>Topics in Catalysis</i> , 2010 , 53, 686-693	2.3	25
79	Cellulose triacetate-based polymer gel electrolytes. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 32-362.9		25
78	Solid-state polymerization and characterization of a copolyamide based on adipic acid, 1,4-butanediamine, and 2,5-furandicarboxylic acid. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a ^{2.9}		24
77	Improved solid oxide fuel cell anodes for the direct utilization of methane using Sn-doped Ni/YSZ catalysts. <i>Catalysis Communications</i> , 2009 , 11, 180-183	3.2	23
76	CO oxidation on SnO ₂ surfaces enhanced by metal doping. <i>Catalysis Science and Technology</i> , 2018 , 8, 782-789	5.5	22
75	Chemical and thermal stability of Pt nanocubes synthesized with various surface-capping agents. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 233-9	1.3	22
74	Electrochemically deposited Sn catalysts with dense tips on a gas diffusion electrode for electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9032-9038	13	21
73	Study on Dissolution and Regeneration of Poplar Wood in Imidazolium-Based Ionic Liquids. <i>Journal of Wood Chemistry and Technology</i> , 2011 , 31, 89-102	2	20
72	Electrocatalytic properties of platinum overgrown on various shapes of gold nanocrystals. <i>Journal of Molecular Catalysis A</i> , 2010 , 333, 6-10		19
71	Monodisperse IrO _x deposited on Pt/C for reversal tolerant anode in proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2019 , 443, 227270	8.9	18
70	Absorption and desorption of SO ₂ in aqueous solutions of diamine-based molten salts. <i>Journal of Hazardous Materials</i> , 2015 , 289, 63-71	12.8	17
69	Platinum-Titanium intermetallic nanoparticle catalysts for oxygen reduction reaction with enhanced activity and durability. <i>Electrochemistry Communications</i> , 2016 , 66, 66-70	5.1	17
68	Diamine-Anchored Polystyrene Resins for Reversible SO ₂ Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2012-2019	8.3	17
67	Quasi-graphitic carbon shell-induced Cu confinement promotes electrocatalytic CO reduction toward C products. <i>Nature Communications</i> , 2021 , 12, 3765	17.4	17
66	Hydrophilic-hydrophobic dual catalyst layers for proton exchange membrane fuel cells under low humidity. <i>Electrochemistry Communications</i> , 2018 , 97, 105-109	5.1	17
65	Top-down shaping of metal nanoparticles in solution: partially etched Au@Pt nanoparticles with unique morphology. <i>Chemical Communications</i> , 2011 , 47, 8079-81	5.8	16
64	Light-assisted surface reactions on metal nanoparticles. <i>Catalysis Science and Technology</i> , 2018 , 8, 3718-3727	3.7	16

63	Facet-Dependent Mn Doping on Shaped Co ₃ O ₄ Crystals for Catalytic Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 11066-11074	13.1	16
62	Lean NO _x trap catalysts with high low-temperature activity and hydrothermal stability. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118871	21.8	15
61	Transformation of carbon dioxide into carbon nanotubes for enhanced ion transport and energy storage. <i>Nanoscale</i> , 2020 , 12, 7822-7833	7.7	15
60	Understanding the unique interaction of amine-containing ionic compounds with SO ₂ for high absorption capacity. <i>RSC Advances</i> , 2013 , 3, 25944	3.7	15
59	A distinct platinum growth mode on shaped gold nanocrystals. <i>Chemical Communications</i> , 2012 , 48, 257-9.8	9.8	15
58	Synergistic Effect of Cu/CeO and Pt-BaO/CeO Catalysts for a Low-Temperature Lean NO Trap. <i>Environmental Science & Technology</i> , 2019 , 53, 2900-2907	10.3	14
57	Selectivity Modulated by Surface Ligands on Cu ₂ O/TiO ₂ Catalysts for Gas-Phase Photocatalytic Reduction of Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29184-29191	3.8	14
56	Enhanced Catalytic Activity of (DMSO) ₂ PtCl ₂ for the Methane Oxidation in the SO ₃ H ₂ SO ₄ System. <i>ACS Catalysis</i> , 2018 , 8, 11854-11862	13.1	14
55	Shape effect of Ag-Ni binary nanoparticles on catalytic hydrogenation aided by surface plasmons. <i>Chemical Communications</i> , 2015 , 51, 12316-9	5.8	13
54	High Facets on Nanowrinkled Cu via Chemical Vapor Deposition Graphene Growth for Efficient CO ₂ Reduction into Ethanol. <i>ACS Catalysis</i> , 2021 , 11, 5658-5665	13.1	13
53	Reversible absorption of SO ₂ with alkyl-anilines: The effects of alkyl group on aniline and water. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 338-344	6.3	13
52	Production of acrylic acid from biomass-derived allyl alcohol by selective oxidation using Au/ceria catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 3616-3622	5.5	12
51	Hydrolysis of ionic cellulose to glucose. <i>Bioresource Technology</i> , 2014 , 167, 484-9	11	12
50	Metal ion-assisted reshaping of Cu ₂ O nanocrystals for catalytic applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14183	13	12
49	Shaped platinum nanoparticles directly synthesized inside mesoporous silica supports. <i>Nanoscale</i> , 2014 , 6, 12540-6	7.7	11
48	Oxidative Methane Conversion to Ethane on Highly Oxidized Pd/CeO Catalysts Below 400 °C. <i>ChemSusChem</i> , 2020 , 13, 677-681	8.3	11
47	Design of an Ultrastable and Highly Active Ceria Catalyst for CO Oxidation by Rare-Earth- and Transition-Metal Co-Doping. <i>ACS Catalysis</i> , 2020 , 10, 14877-14886	13.1	10
46	Synthesis of molecular sieves using ketal structure-directing agents and their degradation inside the pore space. <i>Microporous and Mesoporous Materials</i> , 2006 , 88, 266-274	5.3	10

45	Controlling the Oxidation State of Pt Single Atoms for Maximizing Catalytic Activity. <i>Angewandte Chemie</i> , 2020 , 132, 20872-20877	3.6	10
44	Ring-opening metathesis polymerization of tetracyclododecene using various catalyst systems. <i>Journal of Applied Polymer Science</i> , 2010 , 116, 479-485	2.9	9
43	Y2O3-Inserted Co-Pd/zeolite catalysts for reductive amination of polypropylene glycol. <i>Applied Catalysis A: General</i> , 2018 , 568, 114-122	5.1	9
42	One-pot synthesis of Pd@PdPt core-shell nanocubes on carbon supports. <i>RSC Advances</i> , 2014 , 4, 63677-63680	3.6	8
41	First-principles based phenomenological study of Ni nanocubes: The effects of nanostructuring on carbon poisoning of Ni(0 0 1) nanofacets. <i>Applied Surface Science</i> , 2013 , 265, 339-345	6.7	7
40	A New Energy-Saving Catalytic System: Carbon Dioxide Activation by a Metal/Carbon Catalyst. <i>ChemSusChem</i> , 2017 , 10, 3671-3678	8.3	7
39	Unraveling the origin of extraordinary lean NOx reduction by CO over Ir-Ru bimetallic catalyst at low temperature. <i>Applied Catalysis B: Environmental</i> , 2021 , 280, 119374	21.8	7
38	Mn-doped CuOCo3O4CeO2 catalyst with enhanced activity and durability for hydrocarbon oxidation. <i>Molecular Catalysis</i> , 2019 , 467, 9-15	3.3	6
37	Selective aggregation of polyanion-coated gold nanorods induced by divalent metal ions in an aqueous solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3538-42	1.3	6
36	MODELING OF COPPER ION REMOVAL FROM AQUEOUS SOLUTIONS USING MODIFIED SILICA BEADS. <i>Chemical Engineering Communications</i> , 2000 , 181, 37-55	2.2	6
35	Design Principles of NiFe-Layered Double Hydroxide Anode Catalysts for Anion Exchange Membrane Water Electrolyzers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37179-37186	9.5	6
34	The role of surface hydroxyl groups on a single-atomic Rh/ZrO catalyst for direct methane oxidation. <i>Chemical Communications</i> , 2021 , 57, 1671-1674	5.8	6
33	Titanium-iridium oxide layer coating to suppress photocorrosion during photocatalytic water splitting. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 2429-2433	2.8	5
32	Fe/N/C catalysts synthesized using graphene aerogel for electrocatalytic oxygen reduction reaction in an acidic condition. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2582-2588	2.8	5
31	Selective CO adsorption using sulfur-doped Ni supported by petroleum-based activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 83, 289-296	6.3	4
30	Seemingly Negligible Amounts of Platinum Nanoparticles Mislead Electrochemical Oxygen Reduction Reaction Pathway on Platinum Single-Atom Catalysts. <i>ChemElectroChem</i> , 2020 , 7, 3716-3719	4.3	4
29	Enhancing the luminescence of carbon nanodots in films by tailoring the functional groups through alkylamine-functionalization and reduction. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26095-26101	3.6	4
28	Diels-Alder cycloaddition of oxidized furans and ethylene over supported heteropolyacid catalysts for renewable terephthalic acid. <i>Catalysis Today</i> , 2020 , 351, 37-43	5.3	4

27	Solventless Catalytic Etherification of Glycerol Using Acetate Salts as Efficient Catalysts. <i>Bulletin of the Korean Chemical Society</i> , 2018 , 39, 722-725	1.2	4
26	Pt black catalyzed methane oxidation to methyl bisulfate in H ₂ SO ₄ -SO ₃ . <i>Journal of Catalysis</i> , 2019 , 374, 230-236	7.3	3
25	Toward the practical application of direct CO ₂ hydrogenation technology for methanol production. <i>International Journal of Energy Research</i> , 2020 , 44, 8781-8798	4.5	3
24	Amorphous Ir atomic clusters anchored on crystalline IrO ₂ nanoneedles for proton exchange membrane water oxidation. <i>Journal of Power Sources</i> , 2022 , 524, 231069	8.9	3
23	Ultra-Low Pt Loaded Porous Carbon Microparticles with Controlled Channel Structure for High-Performance Fuel Cell Catalysts. <i>Advanced Energy Materials</i> , 2102970	21.8	3
22	Pt-IrOx catalysts immobilized on defective carbon for efficient reversal tolerant anode in proton exchange membrane fuel cells. <i>Journal of Catalysis</i> , 2021 , 395, 404-411	7.3	3
21	Stabilization of acid-rich bio-oil by catalytic mild hydrotreating. <i>Environmental Pollution</i> , 2021 , 272, 116180	19.5	3
20	Selective Oxidation of Allyl Alcohol to Acrylic Acid in Base-Free Aqueous Solution. <i>ChemistrySelect</i> , 2017 , 2, 2420-2425	1.8	2
19	Ionic Liquid-assisted Separation of Carbohydrates from Lignocellulosic Biomass. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 1305-1312	1.2	2
18	Orthopalladated complexes as phase-transfer catalysts for asymmetric alkylation of achiral Schiff base esters. <i>Transition Metal Chemistry</i> , 2010 , 35, 949-957	2.1	2
17	Improved H utilization by Pd doping in cobalt catalysts for reductive amination of polypropylene glycol.. <i>RSC Advances</i> , 2020 , 10, 45159-45169	3.7	2
16	Surface Restructuring of Supported Nano-Ceria for Improving Sulfur Resistance. <i>ACS Catalysis</i> , 2021 , 11, 7154-7159	13.1	2
15	Learning the properties of a water-lean amine solvent from carbon capture pilot experiments. <i>Applied Energy</i> , 2021 , 283, 116213	10.7	2
14	Controlled doping of electrocatalysts through engineering impurities.. <i>Advanced Materials</i> , 2022 , e2203020	24.1	2
13	Magnesium Oxide-catalyzed Oxidative Depolymerization of EFB Lignin. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 515-521	1.2	1
12	Copper oxide shape effect in CeO ₂ /Cu ₂ O catalysts for PROX reaction. <i>International Journal of Nanotechnology</i> , 2013 , 10, 735	1.5	1
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8	Single-Phase Formation of Rh O Nanoparticles on h-BN Support for Highly Controlled Methane Partial Oxidation to Syngas. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25411-25418	16.4	1
7	Atomically ordered Pt3Mn intermetallic electrocatalysts for the oxygen reduction reaction in fuel cells. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7399-7408	13	1
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