

Yong-Quan Qu

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138
papers

10,351
citations

52
h-index

100
g-index

152
ext. papers

11,916
ext. citations

10.7
avg, IF

6.53
L-index

#	Paper	IF	Citations
138	Progress, challenge and perspective of heterogeneous photocatalysts. <i>Chemical Society Reviews</i> , 2013 , 42, 2568-80	58.5	1056
137	High-speed graphene transistors with a self-aligned nanowire gate. <i>Nature</i> , 2010 , 467, 305-8	50.4	1031
136	Mechanistic Insights on Ternary Ni ₂ -Co _x P for Hydrogen Evolution and Their Hybrids with Graphene as Highly Efficient and Robust Catalysts for Overall Water Splitting. <i>Advanced Functional Materials</i> , 2016 , 26, 6785-6796	15.6	422
135	Terthiophene-based D-A polymer with an asymmetric arrangement of alkyl chains that enables efficient polymer solar cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14149-57	16.4	358
134	Towards highly efficient photocatalysts using semiconductor nanoarchitectures. <i>Energy and Environmental Science</i> , 2012 , 5, 6732	35.4	335
133	Plasmonic modulation of the upconversion fluorescence in NaYF ₄ :Yb/Tm hexaplate nanocrystals using gold nanoparticles or nanoshells. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2865-8	16.4	317
132	Electrically conductive and optically active porous silicon nanowires. <i>Nano Letters</i> , 2009 , 9, 4539-43	11.5	303
131	High Catalytic Activity and Chemoselectivity of Sub-nanometric Pd Clusters on Porous Nanorods of CeO ₂ for Hydrogenation of Nitroarenes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2629-37	16.4	291
130	Graphene-supported hemin as a highly active biomimetic oxidation catalyst. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3822-5	16.4	275
129	Nanoscale energy deposition by X-ray absorbing nanostructures. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11622-5	3.4	178
128	Highly sensitive and robust peroxidase-like activity of porous nanorods of ceria and their application for breast cancer detection. <i>Biomaterials</i> , 2015 , 59, 116-24	15.6	173
127	Highly Efficient and Robust Nickel Phosphides as Bifunctional Electrocatalysts for Overall Water-Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10826-34	9.5	162
126	High-kappa oxide nanoribbons as gate dielectrics for high mobility top-gated graphene transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6711-5	11.5	161
125	Solid frustrated-Lewis-pair catalysts constructed by regulations on surface defects of porous nanorods of CeO. <i>Nature Communications</i> , 2017 , 8, 15266	17.4	160
124	Sub-100 nm channel length graphene transistors. <i>Nano Letters</i> , 2010 , 10, 3952-6	11.5	145
123	Hierarchical NiMo-based 3D electrocatalysts for highly-efficient hydrogen evolution in alkaline conditions. <i>Nano Energy</i> , 2016 , 27, 247-254	17.1	143
122	Modulating electronic structure of CoP electrocatalysts towards enhanced hydrogen evolution by Ce chemical doping in both acidic and basic media. <i>Nano Energy</i> , 2017 , 38, 290-296	17.1	142

121	Unveiling the formation pathway of single crystalline porous silicon nanowires. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 261-70	9.5	142
120	pH-Operated mechanized porous silicon nanoparticles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8798-801	16.4	135
119	Hollow Fluffy Co ₃ O ₄ Cages as Efficient Electroactive Materials for Supercapacitors and Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20322-31	9.5	129
118	High-performance top-gated graphene-nanoribbon transistors using zirconium oxide nanowires as high-dielectric-constant gate dielectrics. <i>Advanced Materials</i> , 2010 , 22, 1941-5	24	120
117	Strong enhancement of phonon scattering through nanoscale grains in lead sulfide thermoelectrics. <i>NPG Asia Materials</i> , 2014 , 6, e108-e108	10.3	119
116	Porous silicon nanowires. <i>Nanoscale</i> , 2011 , 3, 4060-8	7.7	117
115	Plasmonic enhancements of photocatalytic activity of Pt/n-Si/Ag photodiodes using Au/Ag core/shell nanorods. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16730-3	16.4	114
114	Surface engineering on CeO ₂ nanorods by chemical redox etching and their enhanced catalytic activity for CO oxidation. <i>Nanoscale</i> , 2015 , 7, 11686-91	7.7	113
113	Photocatalytic Properties of Porous Silicon Nanowires. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3590-3594		112
112	One-step synthesis of multi-walled carbon nanotubes/ultra-thin Ni(OH) ₂ nanoplate composite as efficient catalysts for water oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11799-11806	13	110
111	Ethylene-glycol ligand environment facilitates highly efficient hydrogen evolution of Pt/CoP through proton concentration and hydrogen spillover. <i>Energy and Environmental Science</i> , 2019 , 12, 2298-2304	35.4	106
110	Silver nanoparticles protected by monolayer graphene as a stabilized substrate for surface enhanced Raman spectroscopy. <i>Carbon</i> , 2014 , 66, 713-719	10.4	106
109	Comprehensive Understanding of the Spatial Configurations of CeO ₂ in NiO for the Electrocatalytic Oxygen Evolution Reaction: Embedded or Surface-Loaded. <i>Advanced Functional Materials</i> , 2018 , 28, 1706056	15.6	99
108	Visible-Light-Activated Suzuki-Miyaura Coupling Reactions of Aryl Chlorides over the Multifunctional Pd/Au/Porous Nanorods of CeO ₂ Catalysts. <i>ACS Catalysis</i> , 2015 , 5, 6481-6488	13.1	98
107	Regulating the surface of nanocerium and its applications in heterogeneous catalysis. <i>Surface Science Reports</i> , 2018 , 73, 1-36	12.9	95
106	Strong electronic metal-support interaction of Pt/CeO ₂ enables efficient and selective hydrogenation of quinolines at room temperature. <i>Journal of Catalysis</i> , 2018 , 359, 101-111	7.3	95
105	Synergistically enhanced activity of graphene quantum dot/multi-walled carbon nanotube composites as metal-free catalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014 , 6, 2603-7	7.7	95
104	Unveiling a Key Intermediate in Solvent Vapor Postannealing to Enlarge Crystalline Domains of Organometal Halide Perovskite Films. <i>Advanced Functional Materials</i> , 2017 , 27, 1604944	15.6	86

103	Integration of molecular and enzymatic catalysts on graphene for biomimetic generation of antithrombotic species. <i>Nature Communications</i> , 2014 , 5, 3200	17.4	83
102	Ultrathin porous Co ₃ O ₄ nanoplates as highly efficient oxygen evolution catalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8107-8114	13	82
101	Understanding All-Solid Frustrated-Lewis-Pair Sites on CeO ₂ from Theoretical Perspectives. <i>ACS Catalysis</i> , 2018 , 8, 546-554	13.1	80
100	Low pressure induced porous nanorods of ceria with high reducibility and large oxygen storage capacity: synthesis and catalytic applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16459-16466	13	79
99	Single-layer graphene on Al ₂ O ₃ /Si substrate: better contrast and higher performance of graphene transistors. <i>Nanotechnology</i> , 2010 , 21, 015705	3.4	78
98	Plasmonic Modulation of the Upconversion Fluorescence in NaYF ₄ :Yb/Tm Hexaplate Nanocrystals Using Gold Nanoparticles or Nanoshells. <i>Angewandte Chemie</i> , 2010 , 122, 2927-2930	3.6	78
97	Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst. <i>Angewandte Chemie</i> , 2012 , 124, 3888-3891	3.6	71
96	A systematic study of atmospheric pressure chemical vapor deposition growth of large-area monolayer graphene. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1498-1503		66
95	CsPbBr ₃ perovskite nanocrystals as highly selective and sensitive spectrochemical probes for gaseous HCl detection. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 309-313	7.1	62
94	Wavelet analysis of extended X-ray absorption fine structure data: Theory, application. <i>Physica B: Condensed Matter</i> , 2018 , 542, 12-19	2.8	60
93	Rational design and synthesis of freestanding photoelectric nanodevices as highly efficient photocatalysts. <i>Nano Letters</i> , 2010 , 10, 1941-9	11.5	59
92	Graphene and Their Hybrid Electrocatalysts for Water Splitting. <i>ChemCatChem</i> , 2017 , 9, 1554-1568	5.2	58
91	Facile synthesis of CoX (X = S, P) as an efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13066-13071	13	58
90	Origin of the Different Photoelectrochemical Performance of Mesoporous BiVO ₄ Photoanodes between the BiVO ₄ and the FTO Side Illumination. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23350-23357	2.8	58
89	Quaternary pyrite-structured nickel/cobalt phosphosulfide nanowires on carbon cloth as efficient and robust electrodes for water electrolysis. <i>Nano Research</i> , 2017 , 10, 814-825	10	57
88	Interfacial Frustrated Lewis Pairs of CeO Activate CO for Selective Tandem Transformation of Olefins and CO into Cyclic Carbonates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11353-11357	16.4	54
87	Semi-solid and solid frustrated Lewis pair catalysts. <i>Chemical Society Reviews</i> , 2018 , 47, 5541-5553	58.5	52
86	One-dimensional homogeneous and heterogeneous nanowires for solar energy conversion. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16171		47

85	Phosphatase-like Activity of Porous Nanorods of CeO for the Highly Stabilized Dephosphorylation under Interferences. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 195-201	9.5	47
84	Amine-Modulated/Engineered Interfaces of NiMo Electrocatalysts for Improved Hydrogen Evolution Reaction in Alkaline Solutions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1728-1733	9.5	45
83	Synthesis of tubular gold and silver nanoshells using silica nanowire core templates. <i>Langmuir</i> , 2006 , 22, 6367-74	4	42
82	A bottom-up synthesis of Fe ₂ O ₃ nanoaggregates and their composites with graphene as high performance anodes in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2158-2165	13	41
81	FeOx@carbon yolk/shell nanowires with tailored void spaces as stable and high-capacity anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12487-12496	13	38
80	In Situ Formation of Isolated Bimetallic PtCe Sites of Single-Dispersed Pt on CeO for Low-Temperature CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38134-38140	9.5	38
79	Pressure Regulations on the Surface Properties of CeO ₂ Nanorods and Their Catalytic Activity for CO Oxidation and Nitrile Hydrolysis Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22988-96	9.5	37
78	Engineering Surface Structure of Spinel Oxides via High-Valent Vanadium Doping for Remarkably Enhanced Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33012-33021	9.5	36
77	Phosphorus-Doped MoS ₂ Nanosheets Supported on Carbon Cloths as Efficient Hydrogen-Generation Electrocatalysts. <i>ChemCatChem</i> , 2018 , 10, 1571-1577	5.2	36
76	Synergistic and targeted drug delivery based on nano-CeO capped with galactose functionalized pillar[5]arene via host-guest interactions. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3483-3487	7.3	34
75	Hierarchical Dual-Scaffolds Enhance Charge Separation and Collection for High Efficiency Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600484	4.6	34
74	Photolyase-Like Catalytic Behavior of CeO. <i>Nano Letters</i> , 2019 , 19, 8270-8277	11.5	34
73	Tuning chemical compositions of bimetallic AuPd catalysts for selective catalytic hydrogenation of halogenated quinolines. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3260-3266	13	33
72	Integration of inverse nanocone array based bismuth vanadate photoanodes and bandgap-tunable perovskite solar cells for efficient self-powered solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19091-19097	13	33
71	Insights into the effects of surface properties of oxides on the catalytic activity of Pd for C-C coupling reactions. <i>Nanoscale</i> , 2015 , 7, 3016-21	7.7	33
70	Influence of fluorination on the properties and performance of isoindigo[quaterthiophene]-based polymers. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5039-5043	13	31
69	Dual-responsive dithio-polydopamine coated porous CeO nanorods for targeted and synergistic drug delivery. <i>International Journal of Nanomedicine</i> , 2018 , 13, 2161-2173	7.3	31
68	A fundamental viewpoint on the hydrogen spillover phenomenon of electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 3502	17.4	31

67	Quantitatively Intrinsic Biomimetic Catalytic Activity of Nanoceria as Radical Scavengers and Their Ability against HO and Doxorubicin-Induced Oxidative Stress. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23342-23352	9.5	30
66	Quantum chemical study of surface reactions of glycine on the Si(100)-2 \times 1 surface. <i>Surface Science</i> , 2004 , 569, 12-22	1.8	30
65	Towards highly active Pd/CeO for alkene hydrogenation by tuning Pd dispersion and surface properties of the catalysts. <i>Nanoscale</i> , 2017 , 9, 3140-3149	7.7	28
64	Protection strategy for improved catalytic stability of silicon photoanodes for water oxidation. <i>Science Bulletin</i> , 2015 , 60, 1395-1402	10.6	27
63	Catalytic Behavior of Graphene Oxides for Converting CO ₂ into Cyclic Carbonates at One Atmospheric Pressure. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4204-4211	8.3	27
62	Catalytically Selective Chemotherapy from Tumor-Metabolic Generated Lactic Acid. <i>Small</i> , 2019 , 15, e1903746	13.746	27
61	3D graphene/nylon rope as a skeleton for noble metal nanocatalysts for highly efficient heterogeneous continuous-flow reactions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10504-10511	13	27
60	Heterointegration of Pt/Si/Ag Nanowire Photodiodes and Their Photocatalytic Properties. <i>Advanced Functional Materials</i> , 2010 , 20, 3005-3011	15.6	27
59	Carbon-assisted conversion reaction-based oxide nanomaterials for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1124-1140	5.8	25
58	Facile synthesis of highly-dispersed Pt/CeO ₂ by a spontaneous surface redox chemical reaction for CO oxidation. <i>Catalysis Science and Technology</i> , 2018 , 8, 3233-3237	5.5	24
57	Silicon-based nanowires from silicon wafers catalyzed by cobalt nanoparticles in a hydrogen environment. <i>Chemical Communications</i> , 2005 , 2274-6	5.8	24
56	Iridium-Chromium Oxide Nanowires as Highly Performed OER Catalysts in Acidic Media. <i>ChemCatChem</i> , 2019 , 11, 6008-6014	5.2	23
55	Overcoming the Deactivation of Pt/CNT by Introducing CeO ₂ for Selective Base-Free Glycerol-to-Glyceric Acid Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 3832-3837	13.1	22
54	Silica nanocoils. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8296-301	3.4	22
53	Interfacial metal-nitrogen units of NiCo/nitrogen-doped carbon for robust oxygen reduction reaction. <i>Carbon</i> , 2019 , 155, 545-552	10.4	21
52	Pt/porous nanorods of ceria as efficient high temperature catalysts with remarkable catalytic stability for carbon dioxide reforming of methane. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18074-18082 ¹³	13	21
51	Repeatable fluorescence switcher of Eu ³⁺ -doped CeO ₂ nanorods by L(+)-ascorbic acid and hydrogen peroxide. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8729-8735	7.1	20
50	Surface engineering of one-dimensional tin oxide nanostructures for chemical sensors. <i>Mikrochimica Acta</i> , 2013 , 180, 1181-1200	5.8	20

49	Carbon Dioxide Reforming of Methane by Ni/Co Nanoparticle Catalysts Immobilized on Single-Walled Carbon Nanotubes. <i>Energy & Fuels</i> , 2008 , 22, 2183-2187	4.1	20
48	Ce-doped CoS ₂ pyrite with weakened O ₂ adsorption suppresses catalyst leaching and stabilizes electrocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17775-17781	13	19
47	Additive-Free, Robust H ₂ Production from H ₂ O and DMF by Dehydrogenation Catalyzed by Cu/Cu ₂ O Formed In Situ. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8245-8249	16.4	18
46	Theoretical Studies of Benzonitrile at the Si(100)-2 \times 1 Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8305-8310	3.4	18
45	Dual-Active-Sites Design of Co@C Catalysts for Ultrahigh Selective Hydrogenation of N-Heteroarenes. <i>Chem</i> , 2020 , 6, 2994-3006	16.2	18
44	Cerium Phosphate as a Novel Cocatalyst Promoting NiCo ₂ O ₄ Nanowire Arrays for Efficient and Robust Electrocatalytic Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5769-5776	6.1	17
43	Probing Site Activity of Monodisperse Pt Nanoparticle Catalysts Using Steam Reforming of Methane. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 254-259	6.4	17
42	Structural influence of porous FeOx@C nanorods on their performance as anodes of lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18649-18656	13	16
41	Theoretical investigations on CH ₂ CH ₂ OH on the Si(100)-2 \times 1 and Ge(100)-2 \times 1 surfaces. <i>Surface Science</i> , 2005 , 586, 45-55	1.8	16
40	A pH-Responsive Polymer-CeO Hybrid to Catalytically Generate Oxidative Stress for Tumor Therapy. <i>Small</i> , 2020 , 16, e2004654	11	16
39	Hydrogen activation enabled by the interfacial frustrated Lewis pairs on cobalt borate nanosheets. <i>Journal of Catalysis</i> , 2019 , 372, 142-150	7.3	14
38	Synthesis and electric properties of dicobalt silicide nanobelts. <i>Chemical Communications</i> , 2011 , 47, 1255-1257	5.8	14
37	Boosting selective hydrogenation through hydrogen spillover on supported-metal catalysts at room temperature. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120418	21.8	12
36	Competitive adsorption on PtCo/CoBOx catalysts enables the selective hydrogen-reductive-amination of nitroarenes with aldehydes into imines. <i>Journal of Catalysis</i> , 2019 , 374, 72-81	7.3	11
35	Morphology Evolution of Tin-Based Oxide Hierarchical Structures Synthesized by Molten Salt Approach and Their Applications as Anode for Lithium Ion Battery. <i>Crystal Growth and Design</i> , 2016 , 16, 34-41	3.5	11
34	Enhanced single strand breaks of supercoiled DNA in a matrix of gold nanotubes under X-ray irradiation. <i>Journal of Colloid and Interface Science</i> , 2012 , 378, 70-6	9.3	11
33	Dissociative Adsorption of Methylsilane on the Si(100)-2 \times 1 Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15103-15109	3.4	11
32	Tribological behavior and characterization analysis of modified nano-CeO ₂ filled oily diatomite/PVDF composites. <i>Tribology International</i> , 2019 , 130, 299-307	4.9	11

31	Interfacial effects of the CuO/GO composite to mediate the side reactions of N,N-dimethylformamide fragments. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22174-82	9.5	10
30	Selective Semihydrogenation of Phenylacetylene to Styrene Catalyzed by Alloyed Palladium/Gold Catalysts Anchored on Cerium Oxide. <i>ChemNanoMat</i> , 2018 , 4, 472-476	3.5	9
29	A simple approach towards uniform spherical Ag-like nanoparticles. <i>Nanoscale</i> , 2012 , 4, 3036-9	7.7	9
28	Size-Controlled Synthesis of Pd Nanocatalysts on Defect-Engineered CeO for CO Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24957-24965	9.5	9
27	High performance amorphous ZnMgO/carbon nanotube composite thin-film transistors with a tunable threshold voltage. <i>Nanoscale</i> , 2013 , 5, 2830-4	7.7	8
26	Thermally stable sandwich-type catalysts of Pt nanoparticles encapsulated in CeO ₂ nanorod/CeO ₂ nanoparticle core/shell supports for methane oxidation at high temperatures. <i>RSC Advances</i> , 2016 , 6, 40323-40329	3.7	8
25	Size-Dependent Adsorption of Styrene on Pd Clusters: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2182-2188	3.8	8
24	Effects of CeO ₂ geometry on corrosion resistance of epoxy coatings. <i>Surface Engineering</i> , 2020 , 36, 175-183	1.8	8
23	Manipulating Doping of Organic Semiconductors by Reactive Oxygen for Field-Effect Transistors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800297	2.5	7
22	Insights into the Interfacial Lewis Acid-Base Pairs in CeO -Loaded CoS Electrocatalysts for Alkaline Hydrogen Evolution. <i>Small</i> , 2021 , 17, e2103018	11	7
21	Additive-Free, Robust H ₂ Production from H ₂ O and DMF by Dehydrogenation Catalyzed by Cu/Cu ₂ O Formed In Situ. <i>Angewandte Chemie</i> , 2017 , 129, 8357-8361	3.6	6
20	Two-step hydrothermally synthesized Ce _{1-x} Zr _x O ₂ for oxidative dehydrogenation of ethylbenzene with carbon dioxide. <i>Journal of CO₂ Utilization</i> , 2019 , 34, 99-107	7.6	6
19	Surface modification of gold nanotubules via microwave radiation, sonication and chemical etching. <i>Chemical Physics Letters</i> , 2006 , 432, 195-199	2.5	6
18	Aerosolization System for Experimental Inhalation Studies of Carbon-Based Nanomaterials. <i>Aerosol Science and Technology</i> , 2012 , 46, 94-107	3.4	5
17	Recognition of melting of nanoparticle catalysts with cubically shaped Co ₃ O ₄ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2008 , 321, 251-5	9.3	5
16	Uniform small metal nanoparticles anchored on CeO ₂ nanorods driven by electroless chemical deposition. <i>Rare Metals</i> , 2020 , 39, 806-814	5.5	5
15	Chemical Doped Ternary and Quaternary Transition-Metal-Based Electrocatalysts for Hydrogen Evolution Reaction. <i>ChemCatChem</i> , 2019 , 11, 4998-5012	5.2	4
14	Boosting Electrocatalytic Activity of Ru for Acidic Hydrogen Evolution through Hydrogen Spillover Strategy. <i>ACS Energy Letters</i> , 2022 , 7, 1330-1337	20.1	4

13	Temperature-responsive dissolution/recrystallization of Zn MOF enables the maximum efficiency and recyclability of catalysts. <i>Chemical Communications</i> , 2020 , 56, 1960-1963	5.8	3
12	Spatial intimacy of binary active-sites for selective sequential hydrogenation-condensation of nitriles into secondary imines. <i>Nature Communications</i> , 2021 , 12, 3382	17.4	3
11	Single crystalline CeO ₂ nanotubes. <i>Nano Research</i> , 2021 , 14, 715-719	10	3
10	Atomic-level correlation between the electrochemical performance of an oxygen-evolving catalyst and the effects of CeO ₂ functionalization. <i>Nano Research</i> , 2022 , 15, 2994-3000	10	3
9	Phytic acid-modified CeO as Ca inhibitor for a security reversal of tumor drug resistance.. <i>Nano Research</i> , 2022 , 1-10	10	2
8	Direct transformation of fatty acid-derived monomers from dimer acid manufacturing into valuable bio-plasticizers with high plasticization and compatibilization. <i>Journal of Cleaner Production</i> , 2021 , 289, 125821	10.3	2
7	Electron-Enriched Pd Nanoparticles for Selective Hydrogenation of Halonitrobenzenes to Haloanilines. <i>Catalysts</i> , 2021 , 11, 543	4	2
6	Pyrite-type electrocatalysts for hydrogen evolution. <i>MRS Bulletin</i> , 2020 , 45, 555-561	3.2	1
5	One-Dimensional Silicon Nanowire Composites for Photocatalysis. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2016 , 57-80	0.1	1
4	Single crystal MnOOH nanotubes for selective oxidative coupling of anilines to aromatic azo compounds. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19692-19697	13	1
3	Innenrücktitelbild: Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst (Angew. Chem. 16/2012). <i>Angewandte Chemie</i> , 2012 , 124, 4045-4045	3.6	
2	Inside Back Cover: Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst (Angew. Chem. Int. Ed. 16/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3975-3975	16.4	
1	Structures of Semiconductor Surfaces and Origins of Surface Reactivity with Organic Molecules 27-49		