

Yong-Quan Qu

List of Publications by Year in descending order

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143
papers

13,464
citations

23567
58
h-index

21540
114
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152
all docs

152
docs citations

152
times ranked

19390
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress, challenge and perspective of heterogeneous photocatalysts. <i>Chemical Society Reviews</i> , 2013, 42, 2568-2580.	38.1	1,255
2	High-speed graphene transistors with a self-aligned nanowire gate. <i>Nature</i> , 2010, 467, 305-308.	27.8	1,156
3	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.	14.9	500
4	Towards highly efficient photocatalysts using semiconductor nanoarchitectures. <i>Energy and Environmental Science</i> , 2012, 5, 6732.	30.8	400
5	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, 2629-2637.	13.7	387
6	Terthiophene-Based 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, 14149-14157.	13.7	386
7	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, 2865-2868.	13.8	343
8	Electrically Conductive and Optically Active Porous Silicon Nanowires. <i>Nano Letters</i> , 2009, 9, 4539-4543.	9.1	324
9	Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3822-3825.	13.8	309
10	Solid frustrated-Lewis-pair catalysts constructed by regulations on surface defects of porous nanorods of CeO ₂ . <i>Nature Communications</i> , 2017, 8, 15266.	12.8	272
11	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.	30.8	227
12	Highly sensitive and robust peroxidase-like activity of porous nanorods of ceria and their application for breast cancer detection. <i>Biomaterials</i> , 2015, 59, 116-124.	11.4	212
13	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.	16.0	212
14	Nanoscale Energy Deposition by X-ray Absorbing Nanostructures. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11622-11625.	2.6	207
15	Highly Efficient and Robust Nickel Phosphides as Bifunctional Electrocatalysts for Overall Water-Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10826-10834.	8.0	205
16	Hierarchical NiMo-based 3D electrocatalysts for highly-efficient hydrogen evolution in alkaline conditions. <i>Nano Energy</i> , 2016, 27, 247-254.	16.0	196
17	High- ϵ 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, 6711-6715.	7.1	187
18	A fundamental viewpoint on the hydrogen spillover phenomenon of electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 3502.	12.8	183

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19	Sub-100 nm Channel Length Graphene Transistors. Nano Letters, 2010, 10, 3952-3956.	9.1	167
20	Hollow Fluffy Co ₃ O ₄ Cages as Efficient Electroactive Materials for Supercapacitors and Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2015, 7, 20322-20331.	8.0	163
21	Unveiling the Formation Pathway of Single Crystalline Porous Silicon Nanowires. ACS Applied Materials & Interfaces, 2011, 3, 261-270.	8.0	156
22	pH-Operated Mechanized Porous Silicon Nanoparticles. Journal of the American Chemical Society, 2011, 133, 8798-8801.	13.7	146
23	Strong electronic metal-support interaction of Pt/CeO ₂ enables efficient and selective hydrogenation of quinolines at room temperature. Journal of Catalysis, 2018, 359, 101-111.	6.2	146
24	Regulating the surface of nanocerium and its applications in heterogeneous catalysis. Surface Science Reports, 2018, 73, 1-36.	7.2	141
25	Comprehensive Understanding of the Spatial Configurations of CeO ₂ in NiO for the Electrocatalytic Oxygen Evolution Reaction: Embedded or Surface-Loaded. Advanced Functional Materials, 2018, 28, 1706056.	14.9	141
26	Strong enhancement of phonon scattering through nanoscale grains in lead sulfide thermoelectrics. NPG Asia Materials, 2014, 6, e108-e108.	7.9	140
27	Surface engineering on CeO ₂ nanorods by chemical redox etching and their enhanced catalytic activity for CO oxidation. Nanoscale, 2015, 7, 11686-11691.	5.6	137
28	Interfacial Frustrated Lewis Pairs of CeO ₂ Activate CO ₂ for Selective Tandem Transformation of Olefins and CO ₂ into Cyclic Carbonates. Journal of the American Chemical Society, 2019, 141, 11353-11357.	13.7	136
29	Understanding All-Solid Frustrated-Lewis-Pair Sites on CeO ₂ from Theoretical Perspectives. ACS Catalysis, 2018, 8, 546-554.	11.2	135
30	High-Performance Top-Gated Graphene Nanoribbon Transistors Using Zirconium Oxide Nanowires as High-Dielectric-Constant Gate Dielectrics. Advanced Materials, 2010, 22, 1941-1945.	21.0	132
31	Porous silicon nanowires. Nanoscale, 2011, 3, 4060.	5.6	129
32	One-step synthesis of multi-walled carbon nanotubes/ultra-thin Ni(OH) ₂ nanoplate composite as efficient catalysts for water oxidation. Journal of Materials Chemistry A, 2014, 2, 11799-11806.	10.3	129
33	Visible-Light-Activated Suzuki-Miyaura Coupling Reactions of Aryl Chlorides over the Multifunctional Pd/Au/Porous Nanorods of CeO ₂ Catalysts. ACS Catalysis, 2015, 5, 6481-6488.	11.2	126
34	Silver nanoparticles protected by monolayer graphene as a stabilized substrate for surface enhanced Raman spectroscopy. Carbon, 2014, 66, 713-719.	10.3	123
35	Plasmonic Enhancements of Photocatalytic Activity of Pt/n-Si/Ag Photodiodes Using Au/Ag Core/Shell Nanorods. Journal of the American Chemical Society, 2011, 133, 16730-16733.	13.7	121
36	Photocatalytic properties of porous silicon nanowires. Journal of Materials Chemistry, 2010, 20, 3590.	6.7	120

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37	Wavelet analysis of extended X-ray absorption fine structure data: Theory, application. <i>Physica B: Condensed Matter</i> , 2018, 542, 12-19.	2.7	114
38	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.	14.9	107
39	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.	10.3	106
40	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.	5.6	105
41	Semi-solid and solid frustrated Lewis pair catalysts. <i>Chemical Society Reviews</i> , 2018, 47, 5541-5553.	38.1	102
42	Ultrathin porous Co ₃ O ₄ nanoplates as highly efficient oxygen evolution catalysts. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8107-8114.	10.3	95
43	Integration of molecular and enzymatic catalysts on graphene for biomimetic generation of antithrombotic species. <i>Nature Communications</i> , 2014, 5, 3200.	12.8	90
44	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.	5.5	89
45	Graphene and Their Hybrid Electrocatalysts for Water Splitting. <i>ChemCatChem</i> , 2017, 9, 1554-1568.	3.7	88
46	Single-layer graphene on Al ₂ O ₃ /Si substrate: better contrast and higher performance of graphene transistors. <i>Nanotechnology</i> , 2010, 21, 015705.	2.6	87
47	Phosphatase-like Activity of Porous Nanorods of CeO ₂ for the Highly Stabilized Dephosphorylation under Interferences. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 195-201.	8.0	82
48	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.	6.7	76
49	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.	10.4	71
50	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.	3.1	70
51	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.	8.0	70
52	Photolyase-Like Catalytic Behavior of CeO ₂ . <i>Nano Letters</i> , 2019, 19, 8270-8277.	9.1	70
53	Boosting Electrocatalytic Activity of Ru for Acidic Hydrogen Evolution through Hydrogen Spillover Strategy. <i>ACS Energy Letters</i> , 2022, 7, 1330-1337.	17.4	70
54	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.	10.3	66

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55	Amine-Modulated/Engineered Interfaces of NiMo Electrocatalysts for Improved Hydrogen Evolution Reaction in Alkaline Solutions. ACS Applied Materials & Interfaces, 2018, 10, 1728-1733.	8.0	65
56	Rational Design and Synthesis of Freestanding Photoelectric Nanodevices as Highly Efficient Photocatalysts. Nano Letters, 2010, 10, 1941-1949.	9.1	62
57	Iridium-Chromium Oxide Nanowires as Highly Performed OER Catalysts in Acidic Media. ChemCatChem, 2019, 11, 6008-6014.	3.7	60
58	Insights on catalytic mechanism of CeO ₂ as multiple nanozymes. Nano Research, 2022, 15, 10328-10342.	10.4	60
59	Catalytically Selective Chemotherapy from Tumor-Metabolic Generated Lactic Acid. Small, 2019, 15, e1903746.	10.0	59
60	In Situ Formation of Isolated Bimetallic PtCe Sites of Single-Dispersed Pt on CeO ₂ for Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 38134-38140.	8.0	58
61	Integration of inverse nanocone array based bismuth vanadate photoanodes and bandgap-tunable perovskite solar cells for efficient self-powered solar water splitting. Journal of Materials Chemistry A, 2017, 5, 19091-19097.	10.3	55
62	Phosphorus-Doped MoS ₂ Nanosheets Supported on Carbon Cloths as Efficient Hydrogen-Generation Electrocatalysts. ChemCatChem, 2018, 10, 1571-1577.	3.7	55
63	Overcoming the Deactivation of Pt/CNT by Introducing CeO ₂ for Selective Base-Free Glycerol-to-Glyceric Acid Oxidation. ACS Catalysis, 2020, 10, 3832-3837.	11.2	55
64	One-dimensional homogeneous and heterogeneous nanowires for solar energy conversion. Journal of Materials Chemistry, 2012, 22, 16171.	6.7	53
65	Pressure Regulations on the Surface Properties of CeO ₂ Nanorods and Their Catalytic Activity for CO Oxidation and Nitrile Hydrolysis Reactions. ACS Applied Materials & Interfaces, 2016, 8, 22988-22996.	8.0	50
66	Boosting selective hydrogenation through hydrogen spillover on supported-metal catalysts at room temperature. Applied Catalysis B: Environmental, 2021, 297, 120418.	20.2	50
67	Dual-Active-Sites Design of Co@C Catalysts for Ultrahigh Selective Hydrogenation of N-Heteroarenes. Chem, 2020, 6, 2994-3006.	11.7	47
68	Synthesis of Tubular Gold and Silver Nanoshells Using Silica Nanowire Core Templates. Langmuir, 2006, 22, 6367-6374.	3.5	46
69	Catalytic Behavior of Graphene Oxides for Converting CO ₂ into Cyclic Carbonates at One Atmospheric Pressure. ACS Sustainable Chemistry and Engineering, 2018, 6, 4204-4211.	6.7	46
70	A bottom-up synthesis of Fe ₂ O ₃ nanoaggregates and their composites with graphene as high performance anodes in lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 2158-2165.	10.3	45
71	Synergistic and targeted drug delivery based on nano-CeO ₂ capped with galactose functionalized pillar[5]arene via host-guest interactions. Journal of Materials Chemistry B, 2017, 5, 3483-3487.	5.8	45
72	Insights into the effects of surface properties of oxides on the catalytic activity of Pd for C-C coupling reactions. Nanoscale, 2015, 7, 3016-3021.	5.6	44

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73	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.	10.3	44
74	Dual-responsive dithio-polydopamine coated porous CeO ₂ nanorods for targeted and synergistic drug delivery. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2161-2173.	6.7	43
75	Insights into the Interfacial Lewis Acid-Base Pairs in CeO ₂ -Loaded CoS ₂ Electrocatalysts for Alkaline Hydrogen Evolution. <i>Small</i> , 2021, 17, e2103018.	10.0	41
76	Hierarchical Dual-Scaffolds Enhance Charge Separation and Collection for High Efficiency Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600484.	3.7	40
77	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.	10.3	40
78	Quantitatively Intrinsic Biomimetic Catalytic Activity of Nanocerias as Radical Scavengers and Their Ability against H ₂ O ₂ and Doxorubicin-Induced Oxidative Stress. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23342-23352.	8.0	40
79	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.	5.1	39
80	A pH-Responsive Polymer-CeO ₂ Hybrid to Catalytically Generate Oxidative Stress for Tumor Therapy. <i>Small</i> , 2020, 16, e2004654.	10.0	39
81	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.	10.3	35
82	Influence of fluorination on the properties and performance of isoindigo- <i>quaterthiophene</i> -based polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5039-5043.	10.3	35
83	Towards highly active Pd/CeO ₂ for alkene hydrogenation by tuning Pd dispersion and surface properties of the catalysts. <i>Nanoscale</i> , 2017, 9, 3140-3149.	5.6	35
84	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.	10.3	35
85	Size-Controlled Synthesis of Pd Nanocatalysts on Defect-Engineered CeO ₂ for CO ₂ Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24957-24965.	8.0	33
86	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.	13.8	32
87	Interfacial metal-nitrogen units of NiCo/nitrogen-doped carbon for robust oxygen reduction reaction. <i>Carbon</i> , 2019, 155, 545-552.	10.3	32
88	Quantum chemical study of surface reactions of glycine on the Si(100)-2 \times 1 surface. <i>Surface Science</i> , 2004, 569, 12-22.	1.9	30
89	Carbon-assisted conversion reaction-based oxide nanomaterials for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1124-1140.	4.9	30
90	Protection strategy for improved catalytic stability of silicon photoanodes for water oxidation. <i>Science Bulletin</i> , 2015, 60, 1395-1402.	9.0	29

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91	Heterointegration of Pt/Si/Ag Nanowire Photodiodes and Their Photocatalytic Properties. <i>Advanced Functional Materials</i> , 2010, 20, 3005-3011.	14.9	28
92	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.	4.1	28
93	Silicon-based nanowires from silicon wafers catalyzed by cobalt nanoparticles in a hydrogen environment. <i>Chemical Communications</i> , 2005, , 2274.	4.1	27
94	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.	10.3	27
95	Hydrogen activation enabled by the interfacial frustrated Lewis pairs on cobalt borate nanosheets. <i>Journal of Catalysis</i> , 2019, 372, 142-150.	6.2	27
96	Highly selective transfer hydrogenation of furfural into furfuryl alcohol by interfacial frustrated Lewis pairs on CeO ₂ . <i>Journal of Catalysis</i> , 2022, 410, 54-62.	6.2	26
97	Repeatable fluorescence switcher of Eu ³⁺ -doped CeO ₂ nanorods by $\text{I}^{\text{+}}/\text{I}^{\text{+}}\text{O}_2$ and hydrogen peroxide. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8729-8735.	5.5	24
98	Effects of CeO ₂ geometry on corrosion resistance of epoxy coatings. <i>Surface Engineering</i> , 2020, 36, 175-183.	2.2	24
99	Silica Nanocoils. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8296-8301.	2.6	23
100	Spatial intimacy of binary active-sites for selective sequential hydrogenation-condensation of nitriles into secondary imines. <i>Nature Communications</i> , 2021, 12, 3382.	12.8	22
101	Carbon Dioxide Reforming of Methane by Ni/Co Nanoparticle Catalysts Immobilized on Single-Walled Carbon Nanotubes. <i>Energy & Fuels</i> , 2008, 22, 2183-2187.	5.1	21
102	Surface engineering of one-dimensional tin oxide nanostructures for chemical sensors. <i>Mikrochimica Acta</i> , 2013, 180, 1181-1200.	5.0	21
103	Structural influence of porous FeO _x @C nanorods on their performance as anodes of lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18649-18656.	10.3	19
104	Theoretical Studies of Benzonitrile at the Si(100)-2 \times 1 Surface. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8305-8310.	2.6	18
105	Tribological behavior and characterization analysis of modified nano-CeO ₂ filled oily diatomite/PVDF composites. <i>Tribology International</i> , 2019, 130, 299-307.	5.9	18
106	Probing Site Activity of Monodisperse Pt Nanoparticle Catalysts Using Steam Reforming of Methane. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 254-259.	4.6	17
107	Theoretical investigations on CH ₂ CH=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.	1.9	16
108	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.	6.2	16

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109	Single crystalline CeO ₂ nanotubes. Nano Research, 2021, 14, 715-719.	10.4	16
110	Synthesis and electric properties of dicobalt silicide nanobelts. Chemical Communications, 2011, 47, 1255-1257.	4.1	15
111	Interfacial Effects of the CuO/GO Composite to Mediate the Side Reactions of N,N-Dimethylformamide Fragments. ACS Applied Materials & Interfaces, 2014, 6, 22174-22182.	8.0	14
112	Morphology Evolution of Tin-Based Oxide Hierarchical Structures Synthesized by Molten Salt Approach and Their Applications as Anode for Lithium Ion Battery. Crystal Growth and Design, 2016, 16, 34-41.	3.0	13
113	Manipulating Doping of Organic Semiconductors by Reactive Oxygen for Field-Effect Transistors. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800297.	2.4	13
114	Atomic-level correlation between the electrochemical performance of an oxygen-evolving catalyst and the effects of CeO ₂ functionalization. Nano Research, 2022, 15, 2994-3000.	10.4	13
115	Dissociative Adsorption of Methylsilane on the Si(100)-2 × 1 Surface. Journal of Physical Chemistry B, 2004, 108, 15103-15109.	2.6	12
116	Two-step hydrothermally synthesized Ce _{1-x} Zr _x O ₂ for oxidative dehydrogenation of ethylbenzene with carbon dioxide. Journal of CO ₂ Utilization, 2019, 34, 99-107.	6.8	12
117	Size-Dependent Adsorption of Styrene on Pd Clusters: A Density Functional Theory Study. Journal of Physical Chemistry C, 2019, 123, 2182-2188.	3.1	12
118	Multiscale porous single-atom Co catalysts for epoxidation with O ₂ . Journal of Materials Chemistry A, 2022, 10, 6016-6022.	10.3	12
119	Enhanced single strand breaks of supercoiled DNA in a matrix of gold nanotubes under X-ray irradiation. Journal of Colloid and Interface Science, 2012, 378, 70-76.	9.4	11
120	Selective Semihydrogenation of Phenylacetylene to Styrene Catalyzed by Alloyed Palladium/Gold Catalysts Anchored on Cerium Oxide. ChemNanoMat, 2018, 4, 472-476.	2.8	11
121	Phytic acid-modified CeO ₂ as Ca ²⁺ inhibitor for a security reversal of tumor drug resistance. Nano Research, 2022, 15, 4334-4343.	10.4	11
122	High performance amorphous ZnMgO/carbon nanotube composite thin-film transistors with a tunable threshold voltage. Nanoscale, 2013, 5, 2830.	5.6	10
123	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. RSC Advances, 2016, 6, 40323-40329.	3.6	10
124	A simple approach towards uniform spherical Ag-like nanoparticles. Nanoscale, 2012, 4, 3036.	5.6	9
125	Uniform small metal nanoparticles anchored on CeO ₂ nanorods driven by electroless chemical deposition. Rare Metals, 2020, 39, 806-814.	7.1	9
126	Single crystal MnOOH nanotubes for selective oxidative coupling of anilines to aromatic azo compounds. Journal of Materials Chemistry A, 2021, 9, 19692-19697.	10.3	9

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127	Phytate Coordination-Enhanced Electrocatalytic Activity of Copper for Nitroarene Hydrogenation through Concerted Proton-Coupled Electron Transfer. ACS Applied Materials & Interfaces, 2022, 14, 14202-14209.	8.0	9
128	Additive-Free, Robust H ₂ Production from H ₂ O and DMF by Dehydrogenation Catalyzed by Cu/Cu ₂ O Formed In Situ. Angewandte Chemie, 2017, 129, 8357-8361.	2.0	7
129	Chemical Doped Ternary and Quaternary Transition-Metal-Based Electrocatalysts for Hydrogen Evolution Reaction. ChemCatChem, 2019, 11, 4998-5012.	3.7	7
130	Direct transformation of fatty acid-derived monomers from dimer acid manufacturing into valuable bio-plasticizers with high plasticization and compatibilization. Journal of Cleaner Production, 2021, 289, 125821.	9.3	7
131	Surface modification of gold nanotubules via microwave radiation, sonication and chemical etching. Chemical Physics Letters, 2006, 432, 195-199.	2.6	6
132	Recognition of melting of nanoparticle catalysts with cubically shaped Co ₃ O ₄ nanoparticles. Journal of Colloid and Interface Science, 2008, 321, 251-255.	9.4	6
133	Aerosolization System for Experimental Inhalation Studies of Carbon-Based Nanomaterials. Aerosol Science and Technology, 2012, 46, 94-107.	3.1	5
134	Temperature-responsive dissolution/recrystallization of Zn MOF enables the maximum efficiency and recyclability of catalysts. Chemical Communications, 2020, 56, 1960-1963.	4.1	5
135	Electron-Enriched Pd Nanoparticles for Selective Hydrogenation of Halonitrobenzenes to Haloanilines. Catalysts, 2021, 11, 543.	3.5	5
136	In situ Re-Construction of Pt Nanoparticles Interface for Highly Selective Synthesis of Primary Amines. ChemCatChem, 2022, 14, .	3.7	5
137	Photoinduced Phase Transition of Ce-Uio-66 to Ce-BDC-OH. Inorganic Chemistry, 0, , .	4.0	4
138	Pyrite-type electrocatalysts for hydrogen evolution. MRS Bulletin, 2020, 45, 555-561.	3.5	2
139	One-Dimensional Silicon Nanowire Composites for Photocatalysis. World Scientific Series in Nanoscience and Nanotechnology, 2016, , 57-80.	0.1	1
140	Nanowires for solar energy and hydrogen production. , 2007, , .		0
141	Heterointegration of Pt/Si/Ag Nanowire Photodiodes and Their Photocatalytic Properties. Advanced Functional Materials, 2010, 20, n/a-n/a.	14.9	0
142	Innenröcktitelbild: Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst (Angew. Chem. 16/2012). Angewandte Chemie, 2012, 124, 4045-4045.	2.0	0
143	Inside Back Cover: Graphene-Supported Hemin as a Highly Active Biomimetic Oxidation Catalyst (Angew.) Tj ETQq1,1 0.784314 rgBT 13.8 0	13.8	0