

Ruibin Jiang

List of Publications by Year in descending order

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papers

7,630
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61857

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95
times ranked

10926
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient oxygen reduction electrocatalyst derived from facile Fe,Nâ” surface treatment of carbon black. Journal of Colloid and Interface Science, 2022, 605, 101-109.	5.0	4
2	A Schottkyâ€Barrierâ€Free Plasmonic Semiconductor Photocatalyst for Nitrogen Fixation in a â€Oneâ€Stoneâ€Twoâ€Birdsâ€Manner. Advanced Materials, 2022, 34, e2104226.	11.1	60
3	Synthesis of Titanium Molybdenum Nitride-Decorated Electrospun Carbon Nanofiber Membranes as Interlayers to Suppress Polysulfide Shuttling in Lithiumâ€Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 776-788.	3.2	21
4	Effect of surface-deposited Ti3C2Tx MXene on the photoelectrochemical water-oxidation performance of iron-doped titania nanorod array. Chemical Engineering Journal, 2022, 431, 134124.	6.6	20
5	Few-layer Mg-deficient borophene nanosheets: I₂ oxidation and ultrasonic delamination from MgB₂. Nanoscale, 2022, 14, 4195-4203.	2.8	3
6	Efficient photocatalytic hydrogen evolution through reverse hydrogen spillover on photoactivated copper-doped mesoporous titania spheres. Applied Materials Today, 2022, 27, 101417.	2.3	2
7	Synthesis of Porous Plasmonic Nanocrystals. , 2022, , 115-145.		0
8	Highly efficient oxygen evolution catalysis achieved by NiFe oxyhydroxide clusters anchored on carbon black. Journal of Materials Chemistry A, 2022, 10, 10342-10349.	5.2	13
9	Chemoâ€Phototherapy with Carfilzomibâ€Encapsulated TiN Nanoshells Suppressing Tumor Growth and Lymphatic Metastasis. Small, 2022, 18, .	5.2	14
10	Photodriven Disproportionation of Nitrogen and Its Change to Reductive Nitrogen Photofixation. Angewandte Chemie, 2021, 133, 940-949.	1.6	12
11	Photodriven Disproportionation of Nitrogen and Its Change to Reductive Nitrogen Photofixation. Angewandte Chemie - International Edition, 2021, 60, 927-936.	7.2	61
12	Nanostructures Composed of Dual Plasmonic Materials Exhibiting High Thermal Stability and SERS Enhancement. Particle and Particle Systems Characterization, 2021, 38, 2000321.	1.2	8
13	Waterâ€Induced Formation of Ni₂Pâ€Ni₁₂P₅ Interfaces with Superior Electrocatalytic Activity toward Hydrogen Evolution Reaction. Small, 2021, 17, e2006770.	5.2	83
14	A Queueâ€Ordered Layered Mnâ€Based Oxides with Al Substitution as Highâ€Rate and Highâ€Stabilized Cathode for Sodiumâ€Ion Batteries. Small, 2021, 17, e2006259.	5.2	22
15	Electromagnetic Resonanceâ€Modulated Magnetic Emission in Europiumâ€Doped Subâ€Micrometer Zirconia Spheres. Advanced Optical Materials, 2021, 9, 2002212.	3.6	11
16	Transparent, Flexible, and Stable Polyethersulfone/Copperâ€Nanowires/Polyethylene Terephthalate Sandwichâ€Structured Films for Highâ€Performance Electromagnetic Interference Shielding. Advanced Engineering Materials, 2021, 23, 2100283.	1.6	20
17	Driving Click Reactions with Plasmonic Hot Holes on (Au Core)@Cu₂O Shell Nanostructures for Regioselective Production of 1,2,3-Triazoles. ACS Applied Nano Materials, 2021, 4, 4623-4631.	2.4	12
18	Formation Mechanism of Nitrogen-Doped Titanium Monoxide Nanospheres and Their Application as Sulfur Hosts in Lithium Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 5713-5726.	2.5	11

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19	Nanoantennas Involved Optical Plasmonic Cavity for Improved Luminescence of Quantum Dots Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44760-44767.	4.0	7
20	Enhancing the photocatalytic water splitting of graphitic carbon nitride by hollow anatase titania dielectric resonators. <i>Journal of Colloid and Interface Science</i> , 2021, 598, 14-23.	5.0	9
21	Interfacial Engineering of Metal/Metal Oxide Heterojunctions toward Oxygen Reduction and Evolution Reactions. <i>ChemPlusChem</i> , 2021, 86, 1586-1601.	1.3	14
22	Anchoring Positively Charged Pd Single Atoms in Ordered Porous Ceria to Boost Catalytic Activity and Stability in Suzuki Coupling Reactions. <i>Small</i> , 2020, 16, e2001782.	5.2	51
23	Synthesis of Ti ₄ O ₇ /Ti ₃ O ₅ Dual-Phase Nanofibers with Coherent Interface for Oxygen Reduction Reaction Electrocatalysts. <i>Materials</i> , 2020, 13, 3142.	1.3	11
24	(Gold triangular nanoplate core)/(silver shell) nanostructures as highly sensitive and selective plasmonic nanoprobe for hydrogen sulfide detection. <i>Nanoscale</i> , 2020, 12, 20250-20257.	2.8	7
25	Metal carbide/Ni hybrids for high-performance electromagnetic absorption and absorption-based electromagnetic interference shielding. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4832-4844.	3.0	31
26	(Fe,N-codoped carbon nanotube)/(Fe-based nanoparticle) nanohybrid derived from Fe-doped g-C ₃ N ₄ : A superior catalyst for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 391-400.	5.0	30
27	Design and synthesis of carbon nanofibers decorated by dual-phase Ti _n O _{2n-1} nanoparticles with synergistic catalytic effect as high performance oxygen reduction reaction catalysts. <i>Electrochimica Acta</i> , 2020, 344, 136120.	2.6	9
28	Graphitic Carbon Nitride (g-C ₃ N ₄) Supported Palladium Species: An Efficient Heterogeneous Photocatalyst Surpassing Homogeneous Thermal Heating Systems for Suzuki Coupling. <i>ChemPlusChem</i> , 2019, 84, 1164-1168.	1.3	27
29	(TiO ₂ (B) Nanosheet)/(Metallic Phase MoS ₂) Hybrid Nanostructures: An Efficient Catalyst for Photocatalytic Hydrogen Evolution. <i>Solar Rrl</i> , 2019, 3, 1900323.	3.1	18
30	Oxygen Vacancy-Enhanced Electrocatalytic Performances of TiO ₂ Nanosheets toward N ₂ Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901034.	1.9	54
31	Formation mechanisms of interfaces between different Ti _n O _{2n-1} phases prepared by carbothermal reduction reaction. <i>CrystEngComm</i> , 2019, 21, 524-534.	1.3	28
32	Chemical Vapor Deposition Growth of High Crystallinity Sb ₂ Se ₃ Nanowire with Strong Anisotropy for Near-Infrared Photodetectors. <i>Small</i> , 2019, 15, e1805307.	5.2	93
33	Au Nanobottles with Synthetically Tunable Overall and Opening Sizes for Chemo-Photothermal Combined Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5353-5363.	4.0	19
34	Control of the emission from electric and magnetic dipoles by gold nanocup antennas. <i>Optics Express</i> , 2019, 27, 14221.	1.7	12
35	Site-Selective Growth of Crystalline Ceria with Oxygen Vacancies on Gold Nanocrystals for Near-Infrared Nitrogen Photofixation. <i>Journal of the American Chemical Society</i> , 2019, 141, 5083-5086.	6.6	222
36	Facile synthesis of Ti ₄ O ₇ on hollow carbon spheres with enhanced polysulfide binding for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10494-10504.	5.2	43

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37	Intercalation and delamination behavior of $\text{Ti}_3\text{C}_2\text{Tx}$ and $\text{MnO}_2/\text{Ti}_3\text{C}_2\text{Tx}/\text{RGO}$ flexible fibers with high volumetric capacitance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12582-12592.	5.2	48
38	A Low-Cost and Facile Method for the Preparation of Fe/C-Based Hybrids with Superior Catalytic Performance toward Oxygen Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900273.	1.9	25
39	Aerosol-spray metal phosphide microspheres with bifunctional electrocatalytic properties for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4783-4792.	5.2	53
40	Highly Compressible Carbon Sponge Supercapacitor Electrode with Enhanced Performance by Growing Nickel-Cobalt Sulfide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10087-10095.	4.0	111
41	Tuning the catalytic activity of colloidal noble metal nanocrystals by using differently charged surfactants. <i>Nanoscale</i> , 2018, 10, 5607-5616.	2.8	14
42	Aluminum nanostructures with strong visible-range SERS activity for versatile micropatterning of molecular security labels. <i>Nanoscale</i> , 2018, 10, 575-581.	2.8	47
43	Simultaneous enhancement of red upconversion luminescence and CT contrast of $\text{NaGdF}_4:\text{Yb,Er}$ nanoparticles via Lu^{3+} doping. <i>Nanoscale</i> , 2018, 10, 20279-20288.	2.8	32
44	Metallic-Phase MoS_2 Nanopetals with Enhanced Electrocatalytic Activity for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13435-13442.	3.2	48
45	Colloidal porous gold nanoparticles. <i>Nanoscale</i> , 2018, 10, 18473-18481.	2.8	31
46	Design of Palladium-Doped $\text{g-C}_3\text{N}_4$ for Enhanced Photocatalytic Activity toward Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 2866-2873.	2.5	76
47	Emerging Applications of Plasmons in Driving CO_2 Reduction and N_2 Fixation. <i>Advanced Materials</i> , 2018, 30, e1802227.	11.1	155
48	Engineering of Hollow PdPt Nanocrystals via Reduction Kinetic Control for Their Superior Electrocatalytic Performances. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29543-29551.	4.0	31
49	High-Efficiency Working-in-Tandem Nitrogen Photofixation Achieved by Assembling Plasmonic Gold Nanocrystals on Ultrathin Titania Nanosheets. <i>Journal of the American Chemical Society</i> , 2018, 140, 8497-8508.	6.6	382
50	Aerosol-Sprayed Gold/Ceria Photocatalyst with Superior Plasmonic Hot Electron-Enabled Visible-Light Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2560-2571.	4.0	65
51	Enhanced high-order ultraviolet upconversion luminescence in sub-20 nm $\text{NaYbF}_4:0.5\% \text{Tm}$ nanoparticles via Fe^{3+} doping. <i>CrystEngComm</i> , 2017, 19, 1304-1310.	1.3	43
52	Fe-doped NiS_2 nanosheet: a highly efficient and low-cost hydrogen evolution catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10173-10181.	5.2	137
53	Sub-10 nm Water-Dispersible $\text{NaGdF}_4:\text{X}\% \text{Eu}^{3+}$ Nanoparticles with Enhanced Biocompatibility for in Vivo X-ray Luminescence Computed Tomography. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39985-39993.	4.0	38
54	All solid-state V_2O_5 -based flexible hybrid fiber supercapacitors. <i>Journal of Power Sources</i> , 2017, 371, 18-25.	4.0	36

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55	Gold Nanobipyramid-Enhanced Hydrogen Sensing with Plasmon Red Shifts Reaching $\lambda^{\sim}140$ nm at 2 vol% Hydrogen Concentration. <i>Advanced Optical Materials</i> , 2017, 5, 1700740.	3.6	34
56	Realization of Red Plasmon Shifts up to $\lambda^{\sim}4900$ nm by AgPd-Tipping Elongated Au Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 13837-13846.	6.6	96
57	Dielectric nanoresonators for light manipulation. <i>Physics Reports</i> , 2017, 701, 1-50.	10.3	145
58	Toroidal dipole-induced absorption and scattering dip in (dielectric core)@(plasmonic shell) nanostructures. <i>Optics Express</i> , 2017, 25, 28935.	1.7	15
59	Localized and Continuous Tuning of Monolayer MoS ₂ Photoluminescence Using a Single Shape-Controlled Ag Nanoantenna. <i>Advanced Materials</i> , 2016, 28, 701-706.	11.1	73
60	Colloidal Gold Nanocups with Orientation-Dependent Plasmonic Properties. <i>Advanced Materials</i> , 2016, 28, 6322-6331.	11.1	74
61	A Chemical Approach To Break the Planar Configuration of Ag Nanocubes into Tunable Two-Dimensional Metasurfaces. <i>Nano Letters</i> , 2016, 16, 3872-3878.	4.5	61
62	One-pot hydrothermal fabrication of layered γ -Ni(OH) ₂ /g-C ₃ N ₄ nanohybrids for enhanced photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 74-83.	10.8	102
63	Plasmon-assisted Chemical Reactions. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2016, , 155-193.	0.1	1
64	Gold Nanocups: Colloidal Gold Nanocups with Orientation-Dependent Plasmonic Properties (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	11.1	4
65	Thickness Control Produces Gold Nanoplates with Their Plasmon in the Visible and Near-Infrared Regions. <i>Advanced Optical Materials</i> , 2016, 4, 76-85.	3.6	91
66	Unraveling the Mechanism of the Zn-Improved Catalytic Activity of Pd-Based Catalysts for Water-Gas Shift Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20181-20191.	1.5	9
67	Plasmon Modes Induced by Anisotropic Gap Opening in Au@Cu ₂ O Nanorods. <i>Small</i> , 2016, 12, 4264-4276.	5.2	28
68	Au/Ag core-shell nanocuboids for high-efficiency organic solar cells with broadband plasmonic enhancement. <i>Energy and Environmental Science</i> , 2016, 9, 898-905.	15.6	127
69	Highly enhanced transverse plasmon resonance and tunable double Fano resonances in gold@titania nanorods. <i>Nanoscale</i> , 2016, 8, 6514-6526.	2.8	25
70	Colloidal Moderate-Refractive-Index Cu ₂ O Nanospheres as Visible-Region Nanoantennas with Electromagnetic Resonance and Directional Light-Scattering Properties. <i>Advanced Materials</i> , 2015, 27, 7432-7439.	11.1	102
71	Nanoscale surface chemistry directs the tunable assembly of silver octahedra into three two-dimensional plasmonic superlattices. <i>Nature Communications</i> , 2015, 6, 6990.	5.8	137
72	Unusual and Tunable One-Photon Nonlinearity in Gold-Dye Plexcitonic Fano Systems. <i>Nano Letters</i> , 2015, 15, 2705-2710.	4.5	59

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73	Insight into factors affecting the presence, degree, and temporal stability of fluorescence intensification on ZnO nanorod ends. <i>Nanoscale</i> , 2015, 7, 1424-1436.	2.8	22
74	Ultrasensitive Plasmonic Response of Bimetallic Au/Pd Nanostructures to Hydrogen. <i>Advanced Functional Materials</i> , 2014, 24, 7328-7337.	7.8	61
75	Metal/Semiconductor Hybrid Nanostructures for Plasmon-Enhanced Applications. <i>Advanced Materials</i> , 2014, 26, 5274-5309.	11.1	926
76	Macroscale Colloidal Noble Metal Nanocrystal Arrays and Their Refractive Index-Based Sensing Characteristics. <i>Small</i> , 2014, 10, 802-811.	5.2	59
77	Bifunctional Au@Pt core-shell nanostructures for in situ monitoring of catalytic reactions by surface-enhanced Raman scattering spectroscopy. <i>Nanoscale</i> , 2014, 6, 9063-9070.	2.8	81
78	Plasmonic gold mushroom arrays with refractive index sensing figures of merit approaching the theoretical limit. <i>Nature Communications</i> , 2013, 4, 2381.	5.8	612
79	Correlating the Plasmonic and Structural Evolutions during the Sulfidation of Silver Nanocubes. <i>ACS Nano</i> , 2013, 7, 9354-9365.	7.3	57
80	Plasmonic Harvesting of Light Energy for Suzuki Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 5588-5601.	6.6	597
81	Plasmon-enhanced chemical reactions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5790.	5.2	257
82	Time-Temperature Indicator for Perishable Products Based on Kinetically Programmable Ag Overgrowth on Au Nanorods. <i>ACS Nano</i> , 2013, 7, 4561-4568.	7.3	173
83	Mass-Based Photothermal Comparison Among Gold Nanocrystals, PbS Nanocrystals, Organic Dyes, and Carbon Black. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8909-8915.	1.5	97
84	Crystalline structure-dependent growth of bimetallic nanostructures. <i>Nanoscale</i> , 2012, 4, 7070.	2.8	56
85	Plasmon-Controlled Fluorescence: Beyond the Intensity Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 191-202.	2.1	388
86	Unraveling the Evolution and Nature of the Plasmons in (Au Core)-(Ag Shell) Nanorods. <i>Advanced Materials</i> , 2012, 24, OP200-7.	11.1	225
87	Methanol dehydrogenation on Rh(111): A density functional and microkinetic modeling study. <i>Journal of Molecular Catalysis A</i> , 2011, 344, 99-110.	4.8	41
88	Mechanism of the Ethylene Conversion to Ethylidyne on Rh(111): A Density Functional Investigation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8440-8448.	1.5	31
89	Decomposition of Methanethiol on Pt(111): A Density Functional Investigation. <i>Langmuir</i> , 2010, 26, 12017-12025.	1.6	20
90	Decomposition of Ethanol on Pd(111): A Density Functional Theory Study. <i>Langmuir</i> , 2010, 26, 1879-1888.	1.6	103

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91	Dehydrogenation of methanol on Pd(100): comparison with the results of Pd(111). Physical Chemistry Chemical Physics, 2010, 12, 7794.	1.3	30
92	Density Functional Study of Ethanol Decomposition on Rh(111). Journal of Physical Chemistry C, 2010, 114, 21493-21503.	1.5	66
93	Density Functional Study of the Reaction of SO ₂ on Ir(111). Journal of Physical Chemistry C, 2009, 113, 18223-18232.	1.5	20
94	Density Functional Investigation of Methanol Dehydrogenation on Pd(111). Journal of Physical Chemistry C, 2009, 113, 4188-4197.	1.5	91