

Baoyou Geng

List of Publications by Year in descending order

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100
papers

5,478
citations

76326

40
h-index

85541

71
g-index

101
all docs

101
docs citations

101
times ranked

8413
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-enzymatic electrochemical sensing of glucose. <i>Mikrochimica Acta</i> , 2013, 180, 161-186.	5.0	427
2	High supercapacitor and adsorption behaviors of flower-like MoS ₂ nanostructures. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15958-15963.	10.3	283
3	Facile Subsequently Light-Induced Route to Highly Efficient and Stable Sunlight-Driven Ag ⁺ /AgBr Plasmonic Photocatalyst. <i>Langmuir</i> , 2010, 26, 18723-18727.	3.5	257
4	A Reliable Aerosol-Spray-Assisted Approach to Produce and Optimize Amorphous Metal Oxide Catalysts for Electrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7547-7551.	13.8	234
5	Titania supported synergistic palladium single atoms and nanoparticles for room temperature ketone and aldehydes hydrogenation. <i>Nature Communications</i> , 2020, 11, 48.	12.8	223
6	Mass Production of Mesoporous MnCo ₂ O ₄ Spinel with Manganese(IV) and Cobalt(II)-Rich Surfaces for Superior Bifunctional Oxygen Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14977-14981.	13.8	184
7	Facile one-pot synthesis of novel hierarchical Bi ₂ O ₃ /Bi ₂ S ₃ nanoflower photocatalyst with intrinsic p-n junction for efficient photocatalytic removals of RhB and Cr(VI). <i>Journal of Hazardous Materials</i> , 2020, 381, 120942.	12.4	180
8	Superior performance asymmetric supercapacitors based on ZnCo ₂ O ₄ @MnO ₂ core-shell electrode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5442-5448.	10.3	158
9	A facile solution chemical route to self-assembly of CuS ball-flowers and their application as an efficient photocatalyst. <i>CrystEngComm</i> , 2010, 12, 144-149.	2.6	157
10	Scalable Dry Production Process of a Superior 3D Net-Like Carbon-Based Iron Oxide Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12649-12653.	13.8	126
11	A facile coordination compound precursor route to controlled synthesis of Co ₃ O ₄ nanostructures and their room-temperature gas sensing properties. <i>Journal of Materials Chemistry</i> , 2008, 18, 4977.	6.7	122
12	A template-free route to a Fe ₃ O ₄ @Co ₃ O ₄ yolk-shell nanostructure as a noble-metal free electrocatalyst for ORR in alkaline media. <i>Journal of Materials Chemistry</i> , 2012, 22, 19132.	6.7	116
13	Fabrication of Fe/Ni hydroxides double-shell nanotube arrays with enhanced performance for oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118193.	20.2	99
14	Facile synthesis of Fe/Ni bimetallic oxide solid-solution nanoparticles with superior electrocatalytic activity for oxygen evolution reaction. <i>Nano Research</i> , 2015, 8, 3815-3822.	10.4	94
15	Hierarchical structures composed of MnCo ₂ O ₄ @MnO ₂ core-shell nanowire arrays with enhanced supercapacitor properties. <i>Dalton Transactions</i> , 2016, 45, 572-578.	3.3	88
16	Construction of unique Co ₃ O ₄ @CoMoO ₄ core/shell nanowire arrays on Ni foam by the action exchange method for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14578-14584.	10.3	84
17	A novel gelatin-guided mesoporous bowknot-like Co ₃ O ₄ anode material for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5342-5350.	10.3	84
18	Heterostructural NiFe-LDH@Ni ₃ S ₂ nanosheet arrays as an efficient electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2019, 318, 42-50.	5.2	84

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19	Well-Constructed Single-Layer Molybdenum Disulfide Nanorose Cross-Linked by Three Dimensional-Reduced Graphene Oxide Network for Superior Water Splitting and Lithium Storage Property. <i>Scientific Reports</i> , 2015, 5, 8722.	3.3	79
20	Ag@Au bimetallic nanostructures: co-reduction synthesis and their component-dependent performance for enzyme-free H ₂ O ₂ sensing. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7111.	10.3	73
21	Hierarchical NiMn ₂ O ₄ @CNT nanocomposites for high-performance asymmetric supercapacitors. <i>RSC Advances</i> , 2015, 5, 24607-24614.	3.6	73
22	Versatile Electronic and Magnetic Properties of SnSe ₂ Nanostructures Induced by the Strain. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9251-9260.	3.1	68
23	3D porous gear-like copper oxide and their high electrochemical performance as supercapacitors. <i>CrystEngComm</i> , 2013, 15, 7657.	2.6	63
24	Ultrathin porous nickel-cobalt hydroxide nanosheets for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 17007-17013.	3.6	62
25	Mass Production of Mesoporous MnCo ₂ O ₄ Spinel with Manganese(IV)- and Cobalt(II)-Rich Surfaces for Superior Bifunctional Oxygen Electrocatalysis. <i>Angewandte Chemie</i> , 2017, 129, 15173-15177.	2.0	61
26	Self-assembly fabrication of 3D porous quasi-flower-like ZnO nanostrip clusters for photodegradation of an organic dye with high performance. <i>CrystEngComm</i> , 2011, 13, 2137.	2.6	57
27	Oxygen Vacancy-Enhanced Electrocatalytic Performances of TiO ₂ Nanosheets toward N ₂ Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901034.	3.7	54
28	Three-dimensional NiCo ₂ O ₄ @NiMoO ₄ core/shell nanowires for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12069-12075.	10.3	51
29	Porous Mn ₂ O ₃ : A Low-Cost Electrocatalyst for Oxygen Reduction Reaction in Alkaline Media with Comparable Activity to Pt/C. <i>Chemistry - A European Journal</i> , 2016, 22, 9909-9913.	3.3	49
30	Fe-Ni Layered Double Hydroxide Arrays with Homogeneous Heterostructure as Efficient Electrocatalysts for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15073-15079.	6.7	49
31	Ultrastable and efficient H ₂ production via membrane-free hybrid water electrolysis over a bifunctional catalyst of hierarchical Mo-Ni alloy nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16501-16507.	10.3	49
32	A facile and efficient strategy to gram-scale preparation of composition-controllable Ni-Fe LDHs nanosheets for superior OER catalysis. <i>Electrochimica Acta</i> , 2017, 225, 303-309.	5.2	46
33	Egg albumin as a nanoreactor for growing single-crystalline Fe ₃ O ₄ nanotubes with high yields. <i>Chemical Communications</i> , 2008, , 5773.	4.1	45
34	Gas template-assisted spray pyrolysis: A facile strategy to produce porous hollow Co ₃ O ₄ with tunable porosity for high-performance lithium-ion battery anode materials. <i>Nano Research</i> , 2018, 11, 1490-1499.	10.4	45
35	Atomically Dispersed Pt/Metal Oxide Mesoporous Catalysts from Synchronous Pyrolysis-Deposition Route for Water-Gas Shift Reaction. <i>Chemistry of Materials</i> , 2018, 30, 5534-5538.	6.7	44
36	ZnO nanorods/ZnSe heteronanostructure arrays with a tunable microstructure of ZnSe shell for visible light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17502-17510.	10.3	43

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37	Magnetic Nanotubes: Synthesis, Properties, and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012, 37, 75-93.	12.3	42
38	Aerosol-spray diverse mesoporous metal oxides from metal nitrates. <i>Scientific Reports</i> , 2015, 5, 9923.	3.3	42
39	Colloidal Synthesis of Mo@Ni Alloy Nanoparticles as Bifunctional Electrocatalysts for Efficient Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800359.	3.7	42
40	Dual-Mode Long-Lived Luminescence of Mn ²⁺ -Doped Nanoparticles for Multilevel Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30146-30153.	8.0	42
41	Simultaneous tunable structure and composition of PtAg alloyed nanocrystals as superior catalysts. <i>Nanoscale</i> , 2016, 8, 14971-14978.	5.6	40
42	Modified Kirkendall effect for fabrication of magnetic nanotubes. <i>Chemical Communications</i> , 2010, 46, 1899-1901.	4.1	38
43	Facile Growth of High-Yield Gold Nanobipyramids Induced by Chloroplatinic Acid for High Refractive Index Sensing Properties. <i>Scientific Reports</i> , 2016, 6, 36706.	3.3	38
44	Excellent lithium ion storage property of porous MnCo ₂ O ₄ nanorods. <i>RSC Advances</i> , 2016, 6, 23074-23084.	3.6	38
45	A multi-interfacial FeOOH@NiCo ₂ O ₄ heterojunction as a highly efficient bifunctional electrocatalyst for overall water splitting. <i>Nanoscale</i> , 2020, 12, 19404-19412.	5.6	38
46	Low-cost and highly efficient composite visible light-driven Ag@AgBr/Al ₂ O ₃ plasmonic photocatalyst for degrading organic pollutants. <i>Catalysis Science and Technology</i> , 2012, 2, 1269.	4.1	36
47	Mesoporous spherical Li ₄ Ti ₅ O ₁₂ /TiO ₂ composites as an excellent anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 212, 41-46.	5.2	36
48	Hollow porous carbon spheres doped with a low content of Co ₃ O ₄ as anode materials for high performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 317, 562-569.	5.2	35
49	Open N-doped carbon coated porous molybdenum phosphide nanorods for synergistic catalytic hydrogen evolution reaction. <i>Nano Research</i> , 2022, 15, 1824-1830.	10.4	35
50	Controllable synthesis of silver nanodendrites on copper rod and its application to hydrogen peroxide and glucose detection. <i>CrystEngComm</i> , 2013, 15, 1173-1178.	2.6	34
51	Engineering of Hollow PdPt Nanocrystals via Reduction Kinetic Control for Their Superior Electrocatalytic Performances. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29543-29551.	8.0	31
52	Hydrothermal Synthesis of a rGO Nanosheet Enwrapped NiFe Nanoalloy for Superior Electrocatalytic Oxygen Evolution Reactions. <i>Chemistry - A European Journal</i> , 2016, 22, 14480-14483.	3.3	29
53	Synchronous constructing ion channels and confined space of Co ₃ O ₄ anode for high-performance lithium-ion batteries. <i>Nano Research</i> , 2022, 15, 6192-6199.	10.4	29
54	Defect-Driven Enhancement of Electrochemical Oxygen Evolution on Fe-Co-Al Ternary Hydroxides. <i>ChemSusChem</i> , 2019, 12, 2564-2569.	6.8	28

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55	Highly dispersed Cu atoms in MOF-derived N-doped porous carbon inducing Pt loads for superior oxygen reduction and hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 426, 130749.	12.7	28
56	Selective Reductionâ€“Oxidation Strategy to the Conductivity-Enhancing Ag-Decorated Co-Based 2D Hydroxides as Efficient Electrocatalyst in Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13420-13426.	6.7	27
57	Pt Nanoparticles Supported on N-Doped Porous Carbon Derived from Metalâ€“Organic Frameworks for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020, 3, 5698-5705.	5.0	27
58	Sandwich shelled TiO ₂ @Co ₃ O ₄ @Co ₃ O ₄ /C hollow spheres as anode materials for lithium ion batteries. <i>Chemical Communications</i> , 2021, 57, 1786-1789.	4.1	27
59	Self-Supported CoFe-P Nanosheets as a Bifunctional Catalyst for Overall Water Splitting. <i>ACS Applied Nano Materials</i> , 2021, 4, 12083-12090.	5.0	27
60	Vesicular Li ₃ V ₂ (PO ₄) ₃ /C hollow mesoporous microspheres as an efficient cathode material for lithium-ion batteries. <i>Nano Research</i> , 2019, 12, 1937-1942.	10.4	26
61	High-Density Pd Nanorod Arrays on Au Nanocrystals for High-Performance Ethanol Electrooxidation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20117-20124.	8.0	26
62	Dispersion and support dictated properties and activities of Pt/metal oxide catalysts in heterogeneous CO oxidation. <i>Nano Research</i> , 2021, 14, 4841-4847.	10.4	26
63	Ni ²⁺ /surfactant-assisted route to porous Î±-Fe ₂ O ₃ nanoarchitectures. <i>Nanoscale</i> , 2012, 4, 1671.	5.6	25
64	Hydrothermal route to twinned-hemisphere-like CuO architectures with selective adsorption performance. <i>CrystEngComm</i> , 2012, 14, 3677.	2.6	24
65	Mesocrystal precursor transformation strategy for synthesizing ordered hierarchical hollow TiO ₂ nanobricks with enhanced photocatalytic property. <i>CrystEngComm</i> , 2014, 16, 2061.	2.6	24
66	Coralloid SnO ₂ with hierarchical structure and their application as recoverable gas sensors for the detection of benzaldehyde/acetone. <i>Materials Chemistry and Physics</i> , 2010, 122, 30-34.	4.0	23
67	Ge@C coreâ€“shell nanostructures for improved anode rate performance in lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 17070-17075.	3.6	23
68	Stick-like titania precursor route to MTiO ₃ (M = Sr, Ba, and Ca) polyhedra. <i>CrystEngComm</i> , 2012, 14, 2959.	2.6	22
69	Scalable Dry Production Process of a Superior 3D Netâ€“Like Carbonâ€“Based Iron Oxide Anode Material for Lithiumâ€“ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 12823-12827.	2.0	21
70	One-step synthesis and morphology evolution of luminescent Eu ²⁺ doped strontium aluminate nanostructures. <i>CrystEngComm</i> , 2010, 12, 2722.	2.6	20
71	A room-temperature chemical route to homogeneous coreâ€“shell Cu ₂ O structures and their application in biosensors. <i>CrystEngComm</i> , 2011, 13, 697-701.	2.6	20
72	CdS urchin-like microspheres/Î±-Fe ₂ O ₃ and CdS/Fe ₃ O ₄ nanoparticles heterostructures with improved photocatalytic recycled activities. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 83-89.	9.4	20

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73	Constructing an interspace in MnO@NC microspheres for superior lithium ion battery anodes. <i>Chemical Communications</i> , 2021, 57, 10951-10954.	4.1	20
74	Re-growth Etching to Large-sized Porous Gold Nanostructures. <i>Scientific Reports</i> , 2013, 3, 2377.	3.3	19
75	Freeze-drying assisted biotemplated route to 3D mesoporous Na ₃ V ₂ (PO ₄) ₃ @NC composites as cathodes with high performance for sodium-ion batteries. <i>Chemical Communications</i> , 2020, 56, 11961-11964.	4.1	19
76	Shell structure-enhanced electrocatalytic performance of Au-Pt core-shell catalyst. <i>CrystEngComm</i> , 2013, 15, 2133.	2.6	17
77	Size-controllable synthesis of amorphous GeO _x hollow spheres and their lithium-storage electrochemical properties. <i>RSC Advances</i> , 2016, 6, 15952-15959.	3.6	17
78	A general gelatin-assisted strategy to hierarchical porous transition metal oxides with excellent lithium-ion storage. <i>Electrochimica Acta</i> , 2018, 279, 66-73.	5.2	17
79	Metal-Organic Framework-Derived Biln Bimetallic Oxide Nanoparticles Embedded in Carbon Networks for Efficient Electrochemical Reduction of CO ₂ to Formate. <i>Inorganic Chemistry</i> , 2022, 61, 12003-12011.	4.0	17
80	Delivery of Highly Active Noble-Metal Nanoparticles into Microspherical Supports by an Aerosol Spray Method. <i>Chemistry - A European Journal</i> , 2015, 21, 13291-13296.	3.3	15
81	Au/Pt co-loaded ultrathin TiO ₂ nanosheets for photocatalyzed H ₂ evolution by the synergistic effect of plasmonic enhancement and co-catalysis. <i>RSC Advances</i> , 2015, 5, 98254-98259.	3.6	15
82	Hierarchical ZnO@MnO ₂ @PPy ternary core-shell nanorod arrays: an efficient integration of active materials for energy storage. <i>RSC Advances</i> , 2015, 5, 39864-39869.	3.6	15
83	Low cost visible light driven plasmonic Ag-AgBr/BiVO ₄ system: fabrication and application as an efficient photocatalyst. <i>RSC Advances</i> , 2015, 5, 39651-39656.	3.6	15
84	Morphology-controllable synthesis of 3D firecracker-like ZnO nanoarchitectures for high catalytic performance. <i>CrystEngComm</i> , 2015, 17, 1121-1128.	2.6	13
85	Morphology Engineering of Au/(PdAg alloy) Nanostructures for Enhanced Electrocatalytic Ethanol Oxidation. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800258.	2.3	13
86	Solubility-dependent gelatination toward N-doped SnO _x /C deriving from commercial SnO ₂ for the ultrastable lithium storage. <i>Journal of Power Sources</i> , 2019, 441, 227172.	7.8	13
87	Hexamethylenetetramine induced multidimensional defects in Co ₂ P nanosheets for efficient alkaline hydrogen evolution. <i>Chemical Communications</i> , 2022, 58, 6352-6355.	4.1	13
88	Kinetic manipulation of the morphology evolution of FePO ₄ microcrystals: from rugbys to porous microspheres. <i>CrystEngComm</i> , 2009, 11, 2510.	2.6	12
89	A facile sonochemical route to morphology controlled nickel complex mesostructures. <i>CrystEngComm</i> , 2009, 11, 1317.	2.6	10
90	Synthesis of Ag/Ag ₂ CO ₃ heterostructures with high length-diameter ratios for excellent photoactivity and anti-photocorrosion. <i>RSC Advances</i> , 2016, 6, 103938-103943.	3.6	9

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91	Branched twinned Au nanostructures: facile hydrothermal reduction fabrication, growth mechanism and electrochemical properties. CrystEngComm, 2012, 14, 6581.	2.6	8
92	Simultaneous and Reversible Triggering of the Phase Transfer and Luminescence Change of Amidine-Modified Carbon Dots by CO ₂ . ACS Applied Materials & Interfaces, 2019, 11, 22851-22857.	8.0	7
93	Self-assembled porous ceria nanostructures with excellent water solubility and antioxidant properties. RSC Advances, 2016, 6, 45957-45962.	3.6	5
94	Plasmonic Band Tunable (Au Nanocrystal)/SnO ₂ Core/Shell Hybrids for Photothermal Therapy. Particle and Particle Systems Characterization, 2018, 35, 1800238.	2.3	5
95	Perovskite phase formation, microstructure and improvement of dielectric properties in iron-containing ferroelectrics. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2538-2545.	1.8	4
96	Water Splitting Catalysts: Colloidal Synthesis of Mo-Ni Alloy Nanoparticles as Bifunctional Electrocatalysts for Efficient Overall Water Splitting (Adv. Mater. Interfaces 13/2018). Advanced Materials Interfaces, 2018, 5, 1870063.	3.7	4
97	In Situ Electrochemical Route to Bromide Anion-Adsorbed Coral-like Porous Silver Microspheres Achieving Highly Selective Electroreduction of CO ₂ to CO over a Wide Potential Range. ACS Sustainable Chemistry and Engineering, 2021, 9, 6756-6763.	6.7	4
98	Synergistic melamine intercalation and Zn(NO ₃) ₂ activation of N-doped porous carbon supported Fe/Fe ₃ O ₄ for efficient electrocatalytic oxygen reduction. RSC Advances, 2022, 12, 15705-15712.	3.6	4
99	Fabrication of ZnSe hexagonal prism with pyramid end through the chemical vapour deposition route. CrystEngComm, 2011, 13, 668-673.	2.6	3
100	Ultrathin Branched Pt Grown on Quasi-Sphere Pd with Enhanced Electrocatalytic Performances. ChemistrySelect, 2018, 3, 1531-1536.	1.5	0