

Daqiang Gao

List of Publications by Year in descending order

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111
papers

7,685
citations

38660

50
h-index

53109

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all docs

111
docs citations

111
times ranked

10225
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of Pt@Au dendrimer-like nanoparticles supported on polydopamine-functionalized graphene and their high performance toward 4-nitrophenol reduction. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 371-378.	10.8	343
2	P Dopants Triggered New Basal Plane Active Sites and Enlarged Interlayer Spacing in MoS ₂ Nanosheets toward Electrocatalytic Hydrogen Evolution. <i>ACS Energy Letters</i> , 2017, 2, 745-752.	8.8	304
3	Dual-Functional N Dopants in Edges and Basal Plane of MoS ₂ Nanosheets Toward Efficient and Durable Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2017, 7, 1602086.	10.2	286
4	Metallic Ni ₃ N nanosheets with exposed active surface sites for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17363-17369.	5.2	233
5	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. <i>Chemical Society Reviews</i> , 2018, 47, 4332-4356.	18.7	232
6	Accelerated Hydrogen Evolution Reaction in CoS ₂ by Transition-Metal Doping. <i>ACS Energy Letters</i> , 2018, 3, 779-786.	8.8	231
7	Activating and Optimizing Activity of CoS ₂ for Hydrogen Evolution Reaction through the Synergic Effect of N Dopants and S Vacancies. <i>ACS Energy Letters</i> , 2017, 2, 1022-1028.	8.8	229
8	Engineering Lower Coordination Atoms onto NiO/Co ₃ O ₄ Heterointerfaces for Boosting Oxygen Evolution Reactions. <i>ACS Catalysis</i> , 2020, 10, 12376-12384.	5.5	223
9	Integrated Hierarchical Carbon Flake Arrays with Hollow P-doped CoSe ₂ Nanoclusters as an Advanced Bifunctional Catalyst for Zn@Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804846.	7.8	192
10	A low crystallinity oxygen-vacancy-rich Co ₃ O ₄ cathode for high-performance flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16094-16100.	5.2	182
11	Ferromagnetism in freestanding MoS ₂ nanosheets. <i>Nanoscale Research Letters</i> , 2013, 8, 129.	3.1	180
12	Bimetallic Nickel Cobalt Sulfide as Efficient Electrocatalyst for Zn@Air Battery and Water Splitting. <i>Nano-Micro Letters</i> , 2019, 11, 2.	14.4	179
13	Room temperature ferromagnetism of pure ZnO nanoparticles. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	178
14	Vacancy-Mediated Magnetism in Pure Copper Oxide Nanoparticles. <i>Nanoscale Research Letters</i> , 2010, 5, 769-772.	3.1	171
15	Defect-related ferromagnetism in ultrathin metal-free g-C ₃ N ₄ nanosheets. <i>Nanoscale</i> , 2014, 6, 2577.	2.8	167
16	Room-Temperature Ferromagnetism of Flowerlike CuO Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18347-18351.	1.5	163
17	Self-Powered Water-Splitting Devices by Core-Shell NiFe@N-Graphite-Based Zn@Air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1706928.	7.8	155
18	Ferromagnetism in ultrathin VS ₂ nanosheets. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5909.	2.7	149

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19	N-doped WS ₂ nanosheets: a high-performance electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11234-11238.	5.2	147
20	Dual Native Vacancy Activated Basal Plane and Conductivity of MoSe ₂ with High Efficiency Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, e1704150.	5.2	114
21	Ferromagnetism in ZnO Nanoparticles Induced by Doping of a Nonmagnetic Element: Al. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13477-13481.	1.5	111
22	Activation of the MoSe ₂ basal plane and Se-edge by B doping for enhanced hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 510-515.	5.2	110
23	Bifunctional Oxygen Electrocatalyst of Mesoporous Ni/NiO Nanosheets for Flexible Rechargeable Zn-Air Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 68.	14.4	103
24	Engineered spin state in Ce doped LaCoO ₃ with enhanced electrocatalytic activity for rechargeable Zn-Air batteries. <i>Nano Energy</i> , 2020, 74, 104948.	8.2	99
25	Bifunctional porous Co-doped NiO nanoflowers electrocatalysts for rechargeable zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 71-77.	10.8	98
26	Ferromagnetism in exfoliated tungsten disulfide nanosheets. <i>Nanoscale Research Letters</i> , 2013, 8, 430.	3.1	97
27	Realization of high Curie temperature ferromagnetism in atomically thin MoS ₂ and WS ₂ nanosheets with uniform and flower-like morphology. <i>Nanoscale</i> , 2015, 7, 650-658.	2.8	94
28	Modulation of Electronics of Oxide Perovskites by Sulfur Doping for Electrocatalysis in Rechargeable Zn-Air Batteries. <i>Chemistry of Materials</i> , 2020, 32, 3439-3446.	3.2	94
29	Electronic structure modulation of NiS ₂ by transition metal doping for accelerating the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4971-4976.	5.2	93
30	Facile one-step synthesis of phosphorus-doped CoS ₂ as efficient electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 259, 955-961.	2.6	92
31	Enhanced hydrogen evolution catalysis in MoS ₂ nanosheets by incorporation of a metal phase. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24414-24421.	5.2	88
32	Synthesis, Magnetic Anisotropy and Optical Properties of Preferred Oriented Zinc Ferrite Nanowire Arrays. <i>Nanoscale Research Letters</i> , 2010, 5, 1289-1294.	3.1	87
33	Enhanced Catalytic Activities of Metal-Phase-Assisted 1T@2H-MoSe ₂ Nanosheets for Hydrogen Evolution. <i>Electrochimica Acta</i> , 2016, 217, 181-186.	2.6	83
34	Phosphorus dual-site driven CoS ₂ @S, N co-doped porous carbon nanosheets for flexible quasi-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26618-26630.	5.2	82
35	Interfacial Engineering of NiO/NiCo ₂ O ₄ Porous Nanofibers as Efficient Bifunctional Catalysts for Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21661-21669.	4.0	80
36	Atomically Thin B doped g-C ₃ N ₄ Nanosheets: High-Temperature Ferromagnetism and calculated Half-Metallicity. <i>Scientific Reports</i> , 2016, 6, 35768.	1.6	74

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37	Ar ²⁺ Beam Irradiation-Induced Multivacancies in MoSe ₂ Nanosheet for Enhanced Electrochemical Hydrogen Evolution. ACS Energy Letters, 2018, 3, 2167-2172.	8.8	73
38	Transition-metal-doped NiSe ₂ nanosheets towards efficient hydrogen evolution reactions. Nano Research, 2018, 11, 6051-6061.	5.8	72
39	d ferromagnetism in undoped sphalerite ZnS nanoparticles. Applied Physics Letters, 2011, 99, .	1.5	71
40	Enhancing the catalytic activity of flowerlike Pt nanocrystals using polydopamine functionalized graphene supports for methanol electrooxidation. Electrochimica Acta, 2014, 142, 18-24.	2.6	70
41	Zn-doped MoSe ₂ nanosheets as high-performance electrocatalysts for hydrogen evolution reaction in acid media. Electrochimica Acta, 2019, 296, 701-708.	2.6	70
42	Room Temperature Ferromagnetism in Vacuum-Annealed CoO Nanospheres. Journal of Physical Chemistry C, 2010, 114, 21989-21993.	1.5	66
43	Tunable ferromagnetic ordering in MoS ₂ nanosheets with fluorine adsorption. Nanoscale, 2015, 7, 4211-4216.	2.8	65
44	High temperature ferromagnetism in Cu-doped MoS ₂ nanosheets. Journal Physics D: Applied Physics, 2016, 49, 165003.	1.3	65
45	Ferromagnetism in ultrathin MoS ₂ nanosheets: from amorphous to crystalline. Nanoscale Research Letters, 2014, 9, 586.	3.1	63
46	Energy-level engineered hollow N-doped NiS _{1.03} for Zn ²⁺ /air batteries. Energy Storage Materials, 2020, 25, 202-209.	9.5	62
47	Copper dopants improved the hydrogen evolution activity of earth-abundant cobalt pyrite catalysts by activating the electrocatalytically inert sulfur sites. Journal of Materials Chemistry A, 2017, 5, 17601-17608.	5.2	61
48	Room-temperature ferromagnetism in Er-doped ZnO thin films. Scripta Materialia, 2009, 60, 289-292.	2.6	58
49	Synthesis and magnetic properties of Zr doped ZnO Nanoparticles. Nanoscale Research Letters, 2011, 6, 587.	3.1	57
50	Durable oxygen evolution reaction of one dimensional spinel CoFe ₂ O ₄ nanofibers fabricated by electrospinning. RSC Advances, 2018, 8, 5338-5343.	1.7	54
51	Cu and Co nanoparticle-Co-decorated N-doped graphene nanosheets: a high efficiency bifunctional electrocatalyst for rechargeable Zn ²⁺ /air batteries. Journal of Materials Chemistry A, 2019, 7, 12851-12858.	5.2	50
52	N ⁺ ion irradiation engineering towards the efficient oxygen evolution reaction on NiO nanosheet arrays. Journal of Materials Chemistry A, 2019, 7, 4729-4733.	5.2	48
53	Defect-Mediated Magnetism in Pure CaO Nanopowders. Journal of Physical Chemistry C, 2010, 114, 11703-11707.	1.5	45
54	Re doping induced 2H-1T phase transformation and ferromagnetism in MoS ₂ nanosheets. Applied Physics Letters, 2018, 113, .	1.5	45

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55	Bifunctional Electrocatalytic Activity of Nitrogen-Doped NiO Nanosheets for Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30865-30871.	4.0	41
56	S-doped CoMn ₂ O ₄ with more high valence metallic cations and oxygen defects for zinc-air batteries. <i>Journal of Power Sources</i> , 2021, 491, 229584.	4.0	40
57	Magnetic properties of Er-doped ZnO films prepared by reactive magnetron sputtering. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 79-82.	1.1	37
58	Co and CeO ₂ co-decorated N-doping carbon nanofibers for rechargeable Zn-air batteries. <i>Nanotechnology</i> , 2019, 30, 395401.	1.3	37
59	Ferromagnetism Induced by Oxygen Vacancies in Zinc Peroxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16405-16410.	1.5	35
60	Room temperature ferromagnetism of Cu doped ZnO nanowire arrays. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	34
61	A series of unexpected ferromagnetic behaviors based on the surface-vacancy state: an insight into NiO nanoparticles with a core-shell structure. <i>RSC Advances</i> , 2014, 4, 46133-46140.	1.7	34
62	Optimized Conductivity and Spin States in N-Doped LaCoO ₃ for Oxygen Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2447-2454.	4.0	34
63	Ferromagnetism in sphalerite and wurtzite CdS nanostructures. <i>Nanoscale Research Letters</i> , 2013, 8, 17.	3.1	33
64	Aliovalent fluorine doping and anodization-induced amorphization enable bifunctional catalysts for efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10831-10838.	5.2	31
65	Activation of defective nickel molybdate nanowires for enhanced alkaline electrochemical hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 16539-16546.	2.8	29
66	Surface-Electronic-Structure Reconstruction of Perovskite via Double-Cation Gradient Etching for Superior Water Oxidation. <i>Nano Letters</i> , 2021, 21, 8166-8174.	4.5	29
67	Atomic-level coupled spinel@perovskite dual-phase oxides toward enhanced performance in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1506-1513.	5.2	28
68	Magnetic resonance of the NiFe ₂ O ₄ nanoparticles in the gigahertz range. <i>Nanoscale Research Letters</i> , 2013, 8, 404.	3.1	27
69	Zigzag-edge related ferromagnetism in MoSe ₂ nanoflakes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32505-32510.	1.3	26
70	High-valent Zirconium-doping modified Co ₃ O ₄ weave-like nanoarray boosts oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161172.	2.8	26
71	P dopants induced ferromagnetism in g-C ₃ N ₄ nanosheets: Experiments and calculations. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	25
72	Cation substitution of B-site in LaCoO ₃ for bifunctional oxygen electrocatalytic activities. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160433.	2.8	25

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73	Special atmosphere annealed Co ₃ O ₄ porous nanoclusters with oxygen defects and high proportion of Co ²⁺ for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2019, 806, 163-169.	2.8	24
74	Interface mediated ferromagnetism in bulk CuO/Cu ₂ O composites. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	23
75	Porous tin disulfide nanosheets with room temperature ferromagnetic nature. <i>CrystEngComm</i> , 2014, 16, 7876.	1.3	23
76	Phase-transfer induced room temperature ferromagnetic behavior in 1T@2H-MoSe ₂ nanosheets. <i>Scientific Reports</i> , 2017, 7, 45307.	1.6	23
77	Multi-stability modulating of alkaline-earth metal doped LaCoO ₃ for rechargeable Zn-air batteries. <i>Energy Storage Materials</i> , 2021, 42, 470-476.	9.5	22
78	Manifestation of high-temperature ferromagnetism in fluorinated graphitic carbon nitride nanosheets. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12230-12235.	2.7	21
79	Adjustable ferromagnetic behavior in iron-doped two-dimensional MoS ₂ multilayer nanosheets. <i>Applied Physics Express</i> , 2017, 10, 093002.	1.1	21
80	Fluorination activates the basal plane HER activity of ReS ₂ : a combined experimental and theoretical study. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14451-14458.	5.2	21
81	Significant Change of Metal Cations in Geometric Sites by Magnetic Field Annealing FeCo ₂ O ₄ for Enhanced Oxygen Catalytic Activity. <i>Small</i> , 2022, 18, e2104248.	5.2	21
82	Preparation and magnetic properties of Nd ₅ Fe _{95-x} B _x nanowire arrays. <i>Materials Letters</i> , 2008, 62, 3070-3072.	1.3	20
83	Bifunctional catalysts of CoNi nanoparticle-embedded nitrogen-doped carbon nanotubes for rechargeable Zn-air batteries. <i>Nanotechnology</i> , 2019, 30, 435701.	1.3	20
84	Transforming from paramagnetism to room temperature ferromagnetism in CuO by ball milling. <i>AIP Advances</i> , 2011, 1, .	0.6	19
85	High efficiency electrocatalyst of LaCr _{0.5} Fe _{0.5} O ₃ nanoparticles on oxygen-evolution reaction. <i>Scientific Reports</i> , 2020, 10, 13395.	1.6	17
86	Abnormal room temperature ferromagnetism in CuO-ZnO heterostructures: interface related or not?. <i>Chemical Communications</i> , 2015, 51, 1151-1153.	2.2	16
87	Electrode-controlled confinement of conductive filaments in a nanocolumn embedded symmetric-asymmetric RRAM structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1577-1582.	2.7	16
88	Observation of room temperature ferromagnetism in pure La ₂ O ₃ nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1293-1298.	1.1	15
89	Ferromagnetism of two-dimensional transition metal chalcogenides: both theoretical and experimental investigations. <i>Nanoscale</i> , 2021, 13, 12772-12787.	2.8	12
90	Hydrogen-etched CoS ₂ to produce a Co ₉ S ₈ @Co ₂ heterostructure electrocatalyst for highly efficient oxygen evolution reaction. <i>RSC Advances</i> , 2021, 11, 30448-30454.	1.7	12

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91	The influences of electrodeposited temperature on the morphology and magnetic properties of Fe/Fe ²⁺ dimethylsulfoxide nanocables. <i>Electrochimica Acta</i> , 2008, 53, 5464-5468.	2.6	11
92	Room temperature ferromagnetism in pure Y ₂ O ₃ nanoparticles. <i>Europhysics Letters</i> , 2012, 97, 17005.	0.7	11
93	Anion vacancy-mediated ferromagnetism in atomic-thick Ni ₃ N nanosheets. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	11
94	Defect-related high temperature ferromagnetism in mechanically milled hexagonal boron nitride nanoplates. <i>Applied Surface Science</i> , 2019, 487, 825-832.	3.1	10
95	Giant magnetoelectric coupling observed at high frequency in NiFe ₂ O ₄ /BaTiO ₃ particulate composite. <i>RSC Advances</i> , 2020, 10, 27242-27248.	1.7	10
96	Cu vacancies modulated the room temperature ferromagnetism in Cu ₂ O/Cu nanoparticle composites. <i>CrystEngComm</i> , 2015, 17, 2118-2122.	1.3	9
97	Structural distortion induced ferromagnetism in two-dimensional metal-free graphitic-C ₃ N ₄ nanosheets. <i>RSC Advances</i> , 2019, 9, 21391-21395.	1.7	9
98	Realization of single-atom ferromagnetism in graphene by Cu ⁺ N ₄ moieties anchoring. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	9
99	Room temperature ferromagnetism in Zn _{0.99} La _{0.01} O and pure ZnO nanoparticles. <i>Materials Chemistry and Physics</i> , 2014, 145, 510-514.	2.0	7
100	Argon ion irradiation induced phase transition and room temperature ferromagnetism in the CuO thin film. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 055003.	1.3	7
101	Robust ferromagnetism in Cr-doped ReS ₂ nanosheets demonstrated by experiments and density functional theory calculations. <i>Nanotechnology</i> , 2020, 31, 175702.	1.3	7
102	A Co ₃ O ₄ /MnCO ₃ heterojunction on three-dimensional nickel foam for an enhanced oxygen evolution reaction. <i>CrystEngComm</i> , 2020, 22, 3984-3990.	1.3	7
103	Enhanced thermal stability of lead-free (1-x)Ba(Zr _{0.2} Ti _{0.8})O _{3-x} (Ba _{0.7} Ca _{0.3})TiO ₃ ferroelectric ceramics. <i>Journal of Materials Science</i> , 2020, 55, 16890-16899.	1.7	6
104	Fe-based species anchored on N-doped carbon nanotubes as a bifunctional electrocatalyst for acidic/neutral/alkaline Zn-air batteries. <i>Nanotechnology</i> , 2020, 31, 265402.	1.3	4
105	Fe ³⁺ -ion irradiated WS ₂ with multi-vacancies and Fe dopants for hydrogen evolution reaction. <i>FlatChem</i> , 2021, 27, 100247.	2.8	3
106	Effect of annealing temperature on the magnetic properties of Zn _{0.97} Al _{0.03} O nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2454-2459.	0.8	2
107	Cr cation-anchored carbon nanosheets: synthesis, paramagnetism and ferromagnetism. <i>Nanotechnology</i> , 2021, 32, 335706.	1.3	2
108	Adjusting the electronic structure of WS ₂ nanosheets by iron doping to promote hydrogen evolution reaction. <i>FlatChem</i> , 2021, 29, 100278.	2.8	2

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109	Tunable ferromagnetic ordering in phosphorus adsorbed ReS ₂ nanosheets. <i>Nanotechnology</i> , 2021, 32, 075701.	1.3	2
110	Coexistence of ferromagnetism and spin glass behavior in antiferromagnetic Y ₂ BaCuO ₅ . <i>Physica C: Superconductivity and Its Applications</i> , 2013, 490, 32-36.	0.6	1
111	High efficiency electrocatalyst of LaNiO ₃ @LaCoO ₃ nanoparticles on oxygen-evolution reaction. <i>FlatChem</i> , 2022, , 100371.	2.8	0