

Shanmin Gao

List of Publications by Year in descending order

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79
papers

3,234
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172443

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all docs

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docs citations

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times ranked

4048
citing authors

#	ARTICLE	IF	CITATIONS
1	In-Situ-Reduced Synthesis of Ti^{3+} Self-Doped $\text{TiO}_2/\text{g-C}_3\text{N}_4$ Heterojunctions with High Photocatalytic Performance under LED Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9023-9030.	8.0	489
2	Synergetic Effect of Ti^{3+} and Oxygen Doping on Enhancing Photoelectrochemical and Photocatalytic Properties of $\text{TiO}_2/\text{g-C}_3\text{N}_4$ Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11577-11586.	8.0	253
3	Morphology regulated Bi_2WO_6 nanoparticles on TiO_2 nanotubes by solvothermal Sb^{3+} doping as effective photocatalysts for wastewater treatment. <i>Electrochimica Acta</i> , 2020, 330, 135167.	5.2	167
4	Solvothermal fabrication and construction of highly photoelectrocatalytic TiO_2 NTs/ Bi_2MoO_6 heterojunction based on titanium mesh. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 92-101.	9.4	146
5	Carbon materials from melamine sponges for supercapacitors and lithium battery electrode materials: A review. , 2019, 1, 253-275.		135
6	Z-Scheme $\text{NiTiO}_3/\text{g-C}_3\text{N}_4$ Heterojunctions with Enhanced Photoelectrochemical and Photocatalytic Performances under Visible LED Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41120-41125.	8.0	130
7	Visible-light-driven photocatalytic S- and C- codoped meso/nanoporous TiO_2 . <i>Energy and Environmental Science</i> , 2010, 3, 1128.	30.8	126
8	Ti^{3+} self-doped $\text{TiO}_2 \cdot x\text{H}_2\text{O}$ anatase nanoparticles via oxidation of TiH_2 in H_2O_2 . <i>Catalysis Today</i> , 2014, 225, 80-89.	4.4	107
9	Sacrificial template synthesis of hollow $\text{C}@\text{MoS}_2@\text{PPy}$ nanocomposites as anodes for enhanced sodium storage performance. <i>Nano Energy</i> , 2019, 60, 362-370.	16.0	104
10	Ultrasonic-assisted pyrolyzation fabrication of reduced $\text{SnO}_2/\text{g-C}_3\text{N}_4$ heterojunctions: Enhance photoelectrochemical and photocatalytic activity under visible LED light irradiation. <i>Nano Research</i> , 2016, 9, 1969-1982.	10.4	67
11	Enhanced photocatalytic performance of TiO_2 NTs decorated with chrysanthemum-like BiOI nanoflowers. <i>Separation and Purification Technology</i> , 2019, 215, 565-572.	7.9	67
12	CTAB-assisted solvothermal construction of hierarchical $\text{Bi}_2\text{MoO}_6/\text{Bi}_5\text{O}_7\text{Br}$ with improved photocatalytic performances. <i>Separation and Purification Technology</i> , 2020, 242, 116775.	7.9	57
13	TiO_2 -Hydrocol-Seed-Growth of $\text{TiO}_2/\text{g-C}_3\text{N}_4$ for Visible Light-Driven Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9510-9517.	3.1	55
14	Plasmonic silver nanoparticles embedded in flexible three-dimensional carbonized melamine foam with enhanced solar-driven water evaporation. <i>Desalination</i> , 2021, 507, 115038.	8.2	55
15	Hydrothermal construction of flower-like MoS_2 on TiO_2 NTs for highly efficient environmental remediation and photocatalytic hydrogen evolution. <i>Separation and Purification Technology</i> , 2021, 265, 118463.	7.9	54
16	Nitrogen-Doped Carbon Quantum Dots from Poly(ethyleneimine) for Optical Dual-Mode Determination of Cu^{2+} and L-Cysteine and Their Logic Gate Operation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47245-47255.	8.0	52
17	Electrochemical Chiral Recognition of Tryptophan Isomers Based on Nonionic Surfactant-Assisted Molecular Imprinting Sol-Gel Silica. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2840-2848.	8.0	46
18	Fabrication of Ti^{3+} self-doped TiO_2 (A) nanoparticle/ TiO_2 (R) nanorod heterojunctions with enhanced visible-light-driven photocatalytic properties. <i>RSC Advances</i> , 2014, 4, 37061-37069.	3.6	45

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19	Vertical grown BiOI nanosheets on TiO ₂ NTs/Ti meshes toward enhanced photocatalytic performances. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153109.	5.5	44
20	Influence of Ag@Au microstructure on the photoelectrocatalytic performance of TiO ₂ nanotube array photocatalysts. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 308-316.	9.4	43
21	Recent progress in all-solid-state quantum dot-sensitized TiO ₂ nanotube array solar cells. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	42
22	Reduced graphene oxide/polypyrrole composite: an advanced electrode for high-performance symmetric/asymmetric supercapacitor. <i>Carbon Letters</i> , 2020, 30, 389-397.	5.9	40
23	SILAR preparation of Bi ₂ S ₃ nanoparticles sensitized TiO ₂ nanotube arrays for efficient solar cells and photocatalysts. <i>Separation and Purification Technology</i> , 2019, 210, 798-803.	7.9	39
24	Rooting MnO ₂ into protonated g-C ₃ N ₄ by intermolecular hydrogen bonding for enduring supercapacitance. <i>Nano Energy</i> , 2020, 77, 105153.	16.0	39
25	Solvothermal preparation of Bi/Bi ₂ O ₃ nanoparticles on TiO ₂ NTs for the enhanced photoelectrocatalytic degradation of pollutants. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152478.	5.5	37
26	Fabrication and photoelectrochemical performance of Ag/AgBr sensitized TiO ₂ nanotube arrays for environmental and energy applications. <i>Separation and Purification Technology</i> , 2019, 209, 782-788.	7.9	35
27	Sb Nanoparticles Anchored on Nitrogen-Doped Amorphous Carbon-Coated Ultrathin CoS Nanosheets for Excellent Performance in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44494-44502.	8.0	34
28	Engineering Bi ₂ S ₃ /BiOI p-n heterojunction to sensitize TiO ₂ nanotube arrays photoelectrodes for highly efficient solar cells and photocatalysts. <i>Ceramics International</i> , 2019, 45, 3995-4002.	4.8	34
29	Ultrasound-assisted synthesis and solar-light-driven photoelectrocatalytic activity of CdS sensitized TiO ₂ nanotube array photocatalysts. <i>Separation and Purification Technology</i> , 2018, 194, 216-221.	7.9	32
30	Sulfur-doped amorphous NiMoO ₄ on crystalline Fe ₂ O ₃ nanorods for enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23819-23827.	10.3	31
31	Sustainable supercapacitors of nitrogen-doping porous carbon based on cellulose nanocrystals and urea. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4095-4103.	7.5	31
32	Electrochemical chiral sensor based on cellulose nanocrystals and multiwall carbon nanotubes for discrimination of tryptophan enantiomers. <i>Cellulose</i> , 2018, 25, 3861-3871.	4.9	27
33	Gold nanorods decorated with graphene oxide and multi-walled carbon nanotubes for trace level voltammetric determination of ascorbic acid. <i>Mikrochimica Acta</i> , 2019, 186, 17.	5.0	27
34	Hydrothermal deposition of Cu ₂ O-Ag nanoparticles co-sensitized TiO ₂ nanotube arrays and their enhanced photoelectrochemical performance. <i>Separation and Purification Technology</i> , 2019, 211, 866-872.	7.9	27
35	NiMoS ₄ nanocrystals anchored on N-doped carbon nanosheets as anode for high performance lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 854-860.	9.4	26
36	Cage-structured CoFe ₂ O ₄ @CNTs from Fe@Co-MOF confined growth in CNTs for high electromagnetic wave absorption performances. <i>Composites Communications</i> , 2021, 27, 100910.	6.3	24

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37	Constructing AgBr/BiOBr microspheres assembled by nanosheets on TiO ₂ nanotube arrays for the enhanced photoelectrochemical performance. Separation and Purification Technology, 2019, 209, 343-350.	7.9	23
38	2D/1D protonated g-C ₃ N ₄ /±-MnO ₂ Z-scheme heterojunction with enhanced visible-light photocatalytic efficiency. Ceramics International, 2020, 46, 25905-25914.	4.8	23
39	Ultrasound-assisted successive ionic layer adsorption and reaction synthesis of Cu ₂ O cubes sensitized TiO ₂ nanotube arrays for the enhanced photoelectrochemical performance. Materials Research Bulletin, 2019, 111, 277-283.	5.2	22
40	Enhanced the photoelectrocatalytic performance of TiO ₂ nanotube arrays by the synergistic sensitization of Ag±-AgBr nanospheres. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117674.	3.9	21
41	Diethylenetriamine directed the assembly of Co _{0.85} Se nanosheets layer by layer on N-doped carbon nanosheets for high performance lithium ion batteries. Journal of Colloid and Interface Science, 2020, 570, 332-339.	9.4	21
42	Amorphous TiO ₂ granular nanodisks on porous Ti foam for highly effective solar cells and photocatalysts. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 85-91.	5.3	20
43	Oxygen-deficient NiMoO _{4-x} S _x nanosheets perpendicularly grown on N-doped carbon nanosheets for high performance lithium-ion batteries. Journal of Power Sources, 2020, 455, 227947.	7.8	20
44	Celastrol-modified TiO ₂ nanoparticles: effects of celastrol on the particle size and visible-light photocatalytic activity. RSC Advances, 2014, 4, 12098-12104.	3.6	19
45	Visible-light photocatalytic SiO ₂ /TiO ₂ ±x C _x /C nanoporous composites using TiCl ₄ as the precursor for TiO ₂ and polyhydroxyl tannin as the carbon source. Catalysis Science and Technology, 2012, 2, 390-399.	4.1	16
46	A facile strategy for the core-shell FeSiAl composites with high-efficiency electromagnetic wave absorption. Journal of Alloys and Compounds, 2020, 818, 152861.	5.5	16
47	±-MnO ₂ /CNTs with cross-linked reticular structure: Towards ultralong life zinc-ion batteries. Diamond and Related Materials, 2022, 125, 109024.	3.9	14
48	Synthesis and Characterization of Fe ¹⁰ BO ₃ /Fe ₃ O ₄ /SiO ₂ and GdFeO ₃ /Fe ₃ O ₄ /SiO ₂ : Nanocomposites of Biofunctional Materials. ChemistryOpen, 2013, 2, 88-92.	1.9	13
49	Mercury detection based on label-free and isothermal enzyme-free amplified fluorescence platform. Talanta, 2017, 162, 368-373.	5.5	13
50	Co ₃ S ₄ ultrathin nanosheets entangled on N-doped amorphous carbon coated carbon nanotubes with C S bonding for high performance Li-ion batteries. Journal of Electroanalytical Chemistry, 2020, 858, 113794.	3.8	13
51	Ni _{1.03} @NiMoS ₄ nanocrystals encapsulated into the mesoporous carbon microspheres for high performance lithium ion batteries. Journal of Electroanalytical Chemistry, 2021, 895, 115502.	3.8	13
52	Microstructural and compositional evolution of core-shell FeSiAl composites during high-temperature annealing. Ceramics International, 2019, 45, 21804-21809.	4.8	12
53	Separated Tellurium Nanoparticles Confined in Hollow Polypyrrole for High Performance Li±Te Cathode. ChemistrySelect, 2019, 4, 9737-9742.	1.5	11
54	One-pot preparation of AgBr/AgIO ₃ photocatalysts: Effects of CTAB amount on the morphology and photocatalytic performance. Materials Science in Semiconductor Processing, 2020, 120, 105310.	4.0	11

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55	Stacked Cu ²⁺ /xSe nanoplates with 2D nanochannels as high performance anode for lithium batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 219-225.	9.4	11
56	A core/shell structured polypyrrole@manganese dioxide composite as high energy density electrode for asymmetric supercapacitor. <i>Materials Letters</i> , 2021, 295, 129829.	2.6	10
57	A yellow-emitting carbon quantum dot-based fluorescent logic gate for the continuous detection of Au ³⁺ and biothiols. <i>Chemical Communications</i> , 2021, 57, 11549-11552.	4.1	10
58	Hydrogen-Bonding Reinforced Flexible Composite Electrodes for Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2022, 32, 2108003.	14.9	10
59	Transformation from Ag@Ag ₃ PO ₄ to Ag@Ag ₂ SO ₄ hybrid at room temperature: preparation and its visible light photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	9
60	Metal vacancies abundant Co _{0.6} Fe _{0.4} S ₂ on N-doped porous carbon nanosheets as anode for high performance lithium batteries. <i>Electrochimica Acta</i> , 2020, 330, 135353.	5.2	9
61	Construction of TiO ₂ nanotube arrays co-sensitized by Sb ₂ S ₃ -Bi ₂ S ₃ microspheres by UV-assisted photodeposition for the enhanced photoelectrochemical performance. <i>Ceramics International</i> , 2018, 44, 12825-12830.	4.8	8
62	Enhanced electrochemical enantio-recognition of tryptophan enantiomers based on synergistic effect of porous β -CD-containing polymers and multiwalled carbon nanotubes. <i>Microchemical Journal</i> , 2020, 155, 104688.	4.5	8
63	A cross-linked sheet structured poly(3,4-ethylenedioxythiophene) grown on Ni foam: Morphology control and application for long-life cyclic asymmetric supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6120-6127.	7.1	8
64	Continuous response fluorescence sensor for three small molecules based on nitrogen-doped carbon quantum dots from prunus lannesiana and their logic gate operation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 257, 119774.	3.9	8
65	Enhancement of photocatalytic dye degradation and photoconversion capacity of graphene oxide/SnO ₂ nanocomposites. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162796.	5.5	8
66	Bio-mediated synthesis and antibacterial activity against aquatic pathogens of silver nanoparticles decorated titania nanosheets in dark and under solar-light irradiation. <i>Materials Technology</i> , 2018, 33, 532-542.	3.0	7
67	Preparation of fusiform Ti ³⁺ self-doped TiO ₂ nanoparticles by mixed solvothermal method and its photoelectrochemical properties. <i>Materials Letters</i> , 2019, 252, 134-137.	2.6	7
68	Nitrogen-doped hierarchical porous carbon nanomaterial from cellulose nanocrystals for voltammetric determination of ascorbic acid. <i>Microchemical Journal</i> , 2021, 168, 106494.	4.5	7
69	Construction of Sb ₂ Se ₃ nanocrystals on Cu ²⁺ /xSe@C nanosheets for high performance lithium storage. <i>New Journal of Chemistry</i> , 2019, 43, 14066-14073.	2.8	6
70	Improved chiral electrochemical recognition of tryptophan enantiomers based on three-dimensional molecularly imprinted overoxidized polypyrrole/MnO ₂ /carbon felt composites. <i>Chirality</i> , 2019, 31, 917-922.	2.6	6
71	2-Aminopurine modified DNA probe for rapid and sensitive detection of l-cysteine. <i>Talanta</i> , 2019, 202, 520-525.	5.5	6
72	Label-free DNA Y junction for detection of Hg ²⁺ using exonuclease III or graphene oxide-assisted background reduction. <i>Microchemical Journal</i> , 2019, 145, 1086-1093.	4.5	6

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73	In Situ Synthesis of Ti ³⁺ Self-Doped TiO ₂ /N-Doped Carbon Nanocomposites and its Visible Light Photocatalytic Performance. Nano, 2016, 11, 1650088.	1.0	4
74	Effect of different reductants on the composition and photocatalytic performances of Ag/AgIO ₃ hybrids prepared by in-situ reduction method. Inorganic Chemistry Communication, 2020, 115, 107876.	3.9	4
75	Effect of blending manner on composition and photocatalytic performance of Ag/Ag ₃ PO ₄ /Ag ₄ P ₂ O ₇ composites via an in-situ reduction-precipitation route. Inorganic Chemistry Communication, 2021, 130, 108675.	3.9	4
76	Controllable preparation and photocatalytic activity of ZnO microstructures with different morphology. Micro and Nano Letters, 2018, 13, 565-567.	1.3	3
77	Direct growth of carbon microfibres on SiO ₂ particles by chemical vapour deposition from ethanol. Micro and Nano Letters, 2018, 13, 1453-1456.	1.3	1
78	Preparation and Characterization of Nanoporous TiO ₂ International Journal of Photoenergy, 2012, 2012, 1-8.	2.5	0
79	Conclusions and Future Perspectives. , 2016, , 379-385.		0