

Feng Gong

List of Publications by Year in descending order

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76
papers

3,709
citations

147566

31
h-index

128067

60
g-index

76
all docs

76
docs citations

76
times ranked

4876
citing authors

#	ARTICLE	IF	CITATIONS
1	Necklace-like Multishelled Hollow Spinel Oxides with Oxygen Vacancies for Efficient Water Electrolysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13644-13653.	6.6	430
2	Synthesis of 2D Mesoporous Carbon/MoS ₂ Heterostructures with Well-Defined Interfaces for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 9385-9390.	11.1	253
3	Scalable, eco-friendly and ultrafast solar steam generators based on one-step melamine-derived carbon sponges toward water purification. <i>Nano Energy</i> , 2019, 58, 322-330.	8.2	246
4	Synergetic enhancement of thermal conductivity by constructing hybrid conductive network in the segregated polymer composites. <i>Composites Science and Technology</i> , 2018, 162, 7-13.	3.8	141
5	Crystalline isotype heptazine/triazine-based carbon nitride heterojunctions for an improved hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118381.	10.8	130
6	Advanced multifunctional graphene aerogel " Poly (methyl methacrylate) composites: Experiments and modeling. <i>Carbon</i> , 2015, 81, 396-404.	5.4	127
7	Graphene Oxide-Template Controlled Cuboid-Shaped High-Capacity VS ₄ Nanoparticles as Anode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801806.	7.8	125
8	Enhancing Electrocatalytic N ₂ Reduction to NH ₃ by CeO ₂ Nanorod with Oxygen Vacancies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2889-2893.	3.2	121
9	Electrocatalytic Hydrogenation of N ₂ to NH ₃ by MnO: Experimental and Theoretical Investigations. <i>Advanced Science</i> , 2019, 6, 1801182.	5.6	117
10	Interface Tension-Induced Synthesis of Monodispersed Mesoporous Carbon Hemispheres. <i>Journal of the American Chemical Society</i> , 2015, 137, 2808-2811.	6.6	113
11	An MnO ₂ -Ti ₃ C ₂ T _x MXene nanohybrid: an efficient and durable electrocatalyst toward artificial N ₂ fixation to NH ₃ under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18823-18827.	5.2	107
12	Molybdenum and tungsten disulfides-based nanocomposite films for energy storage and conversion: A review. <i>Chemical Engineering Journal</i> , 2018, 348, 908-928.	6.6	98
13	Mn ₃ O ₄ nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N ₂ fixation to NH ₃ at ambient conditions. <i>Nano Research</i> , 2019, 12, 1093-1098.	5.8	93
14	Agricultural waste-derived moisture-absorber for all-weather atmospheric water collection and electricity generation. <i>Nano Energy</i> , 2020, 74, 104922.	8.2	91
15	Efficient electrohydrogenation of N ₂ to NH ₃ by oxidized carbon nanotubes under ambient conditions. <i>Chemical Communications</i> , 2019, 55, 4997-5000.	2.2	79
16	Controllable morphologies and electrochemical performances of self-assembled nano-honeycomb WS ₂ anodes modified by graphene doping for lithium and sodium ion batteries. <i>Carbon</i> , 2019, 142, 697-706.	5.4	76
17	Solid waste and graphite derived solar steam generator for highly-efficient and cost-effective water purification. <i>Applied Energy</i> , 2020, 261, 114410.	5.1	70
18	FeP nanorod array: A high-efficiency catalyst for electroreduction of NO to NH ₃ under ambient conditions. <i>Nano Research</i> , 2022, 15, 4008-4013.	5.8	61

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19	Enhanced Thermal Conductivity of Segregated Poly(vinylidene fluoride) Composites via Forming Hybrid Conductive Network of Boron Nitride and Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 10391-10397.	1.8	58
20	Enhanced Electrochemical and Thermal Transport Properties of Graphene/MoS ₂ Heterostructures for Energy Storage: Insights from Multiscale Modeling. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14614-14621.	4.0	56
21	Transition metal vanadates electrodes in lithium-ion batteries: A holistic review. <i>Energy Storage Materials</i> , 2021, 35, 169-191.	9.5	56
22	Biomass-derived oxygen-doped hollow carbon microtubes for electrocatalytic N ₂ -to-NH ₃ fixation under ambient conditions. <i>Chemical Communications</i> , 2019, 55, 2684-2687.	2.2	54
23	Thermal transport phenomena and limitations in heterogeneous polymer composites containing carbon nanotubes and inorganic nanoparticles. <i>Carbon</i> , 2014, 78, 305-316.	5.4	50
24	Systematic comparison of hollow and solid Co ₃ V ₂ O ₈ micro-pencils as advanced anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 264, 358-366.	2.6	49
25	Highly Anisotropic, Thermally Conductive, and Mechanically Strong Polymer Composites with Nacre-like Structure for Thermal Management Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 3312-3320.	2.4	48
26	Recent Advances in Graphene-Based Free-Standing Films for Thermal Management: Synthesis, Properties, and Applications. <i>Coatings</i> , 2018, 8, 63.	1.2	43
27	Tailoring Coordination Microenvironment of Cu(I) in Metal-Organic Frameworks for Enhancing Electroreduction of CO ₂ to CH ₄ . <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	42
28	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700141.	1.2	38
29	A general strategy for designing metal-free catalysts for highly-efficient nitric oxide reduction to ammonia. <i>Fuel</i> , 2022, 310, 122442.	3.4	38
30	Novel spherical cobalt/nickel mixed-vanadates as high-capacity anodes in lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 766, 442-449.	2.8	33
31	Enhanced NH ₃ decomposition for H ₂ production over bimetallic M(M=Co, Fe, Cu)Ni/Al ₂ O ₃ . <i>Fuel Processing Technology</i> , 2021, 221, 106945.	3.7	33
32	Tribological and wear performances of graphene-oil nanofluid under industrial high-speed rotation. <i>Tribology International</i> , 2019, 135, 112-120.	3.0	31
33	Cellulose-Hydrogel-Derived Self-Activated Carbon/SnO ₂ Nanocomposites for High-Performance Lithium Storage. <i>ACS Applied Energy Materials</i> , 2019, 2, 5171-5182.	2.5	29
34	Optimized sulfur-loading in nitrogen-doped porous carbon for high-capacity cathode of lithium-sulfur batteries. <i>Applied Surface Science</i> , 2019, 487, 784-792.	3.1	29
35	MOF-derived manganese monoxide nanosheet-assembled microflowers for enhanced lithium-ion storage. <i>Nanoscale</i> , 2019, 11, 10763-10773.	2.8	29
36	Structures and dielectric performances of Mn/Y alternately doped BST films prepared by a novel preheating process. <i>Materials Chemistry and Physics</i> , 2017, 193, 50-56.	2.0	28

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37	A Facile Approach to Tune the Electrical and Thermal Properties of Graphene Aerogels by Including Bulk MoS ₂ . <i>Nanomaterials</i> , 2017, 7, 420.	1.9	28
38	High-efficiency NO electroreduction to NH ₃ over honeycomb carbon nanofiber at ambient conditions. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 261-267.	5.0	26
39	Enhancing Electrocatalytic NO Reduction to NH ₃ by the CoS Nanosheet with Sulfur Vacancies. <i>Inorganic Chemistry</i> , 2022, 61, 8096-8102.	1.9	26
40	Mesoscopic modeling of cancer photothermal therapy using single-walled carbon nanotubes and near infrared radiation: insights through an off-lattice Monte Carlo approach. <i>Nanotechnology</i> , 2014, 25, 205101.	1.3	24
41	A flexible electrokinetic power generator derived from paper and ink for wearable electronics. <i>Applied Energy</i> , 2020, 279, 115764.	5.1	23
42	Facile and Controllable Synthesis of Co ₂ V ₂ O ₇ Microplatelets Anchored on Graphene Layers toward Superior Li-Ion Battery Anodes. <i>Energy & Fuels</i> , 2020, 34, 7616-7621.	2.5	22
43	Enhanced supercapacitor performance of bimetallic metal selenides via controllable synergistic engineering of composition. <i>Electrochimica Acta</i> , 2021, 370, 137802.	2.6	22
44	Critical Roles of the Oxygen-Containing Functional Groups via β -O-4 Lignin Linkage Hydrogenolysis over Copper Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10939-10947.	3.2	22
45	Inter-Carbon Nanotube Contact and Thermal Resistances in Heat Transport of Three-Phase Composites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7614-7620.	1.5	21
46	Off-Lattice Monte Carlo Simulation of Heat Transfer through Carbon Nanotube Multiphase Systems Taking into Account Thermal Boundary Resistances. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 1023-1043.	1.2	18
47	Graphene coated Co ₃ V ₂ O ₈ micro-pencils for enhanced-performance in lithium ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 10634-10639.	1.4	18
48	Effective thermal transport properties in multiphase biological systems containing carbon nanomaterials. <i>RSC Advances</i> , 2017, 7, 13615-13622.	1.7	18
49	Review of Recent Developments on Using an Off-Lattice Monte Carlo Approach to Predict the Effective Thermal Conductivity of Composite Systems with Complex Structures. <i>Nanomaterials</i> , 2016, 6, 142.	1.9	17
50	Facile and controllable synthesis of solid Co ₃ V ₂ O ₈ micro-pencils as a highly efficient anode for Li-ion batteries. <i>RSC Advances</i> , 2017, 7, 24418-24424.	1.7	16
51	Co@NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia. <i>Chemical Communications</i> , 2022, 58, 3787-3790.	2.2	15
52	Highly thermo-conductive but electrically insulating filament via a volume-confinement self-assembled strategy for thermoelectric wearables. <i>Chemical Engineering Journal</i> , 2021, 421, 127764.	6.6	14
53	Predictions of the thermal conductivity of multiphase nanocomposites with complex structures. <i>Journal of Materials Science</i> , 2018, 53, 12157-12166.	1.7	13
54	Low-grade energy harvesting from dispersed exhaust steam for power generation using a soft biomimetic actuator. <i>Nano Energy</i> , 2022, 91, 106677.	8.2	13

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55	An in situ iodine-doped graphene/silicon composite paper as a highly conductive and self-supporting electrode for lithium-ion batteries. RSC Advances, 2017, 7, 38639-38646.	1.7	12
56	Prediction of thermal resistances and heat conduction of carbon nanotube aerogels in various permeated gases. Chemical Physics Letters, 2015, 627, 116-120.	1.2	11
57	Recycling Polymeric Solid Wastes for Energy-efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. Small, 2021, 17, e2102459.	5.2	11
58	Advanced Fabrication and Properties of Aligned Carbon Nanotube Composites: Experiments and Modeling. , 0, , .		10
59	Pure-phase Mn_2VO_7 interconnected nanospheres as a high-performance lithium ion battery anode. Chemical Communications, 2020, 56, 8043-8046.	2.2	10
60	Uniform Co_3VO_8 microspheres <i>via</i> controllable assembly for high-performance lithium-ion battery anodes. New Journal of Chemistry, 2018, 42, 4881-4886.	1.4	9
61	Hybridized cobalt/manganese vanadates as high-performance anodes in lithium ion battery. Materials Letters, 2021, 283, 128782.	1.3	8
62	Enhanced thermal transport and corrosion resistance by coating vertically-aligned graphene on zirconium alloy for nuclear reactor applications. Applied Surface Science, 2022, 582, 152484.	3.1	8
63	Addressing the challenge of fabricating a high content regenerated cellulose/nanomaterial composite: the magical effect of urea. Green Chemistry, 2020, 22, 4121-4127.	4.6	7
64	Direct Thermal Pyrolysis Enabling the Use of Cobalt Oxides Nanoparticles from Commercial Acetates as High-Capacity Anodes for Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 13564-13571.	1.8	7
65	Rational Synthesis of "Grape-like" Ni_2VO_7 Microspheres as High-capacity Anodes for Rechargeable Lithium Batteries. Chemistry - an Asian Journal, 2021, 16, 775-782.	1.7	7
66	Enhanced Thermal Transport Properties of Graphene/SiC Heterostructures on Nuclear Reactor Cladding Material: A Molecular Dynamics Insight. Nanomaterials, 2022, 12, 894.	1.9	7
67	1+1>2: Learning from the interfacial modulation on single-atom electrocatalysts to design dual-atom electrocatalysts for dinitrogen reduction. Green Energy and Environment, 2023, 8, 1753-1763.	4.7	6
68	Mesoscopic modeling of heat transfer in carbon nanotube multiphase polymer composites. AIP Conference Proceedings, 2016, , .	0.3	4
69	Computational study on anisotropic thermal characterization of multi-scale wires using transient electrothermal technique. International Journal of Thermal Sciences, 2014, 77, 165-171.	2.6	3
70	Hydroxy-Group-Functionalized Single Crystal of Copper(II)-Porphyrin Complex for Electroreduction CO_2 to CH_4 . ChemSusChem, 2022, , .	3.6	3
71	Anisotropic heat transfer prediction of multiscale wires using pulse laser thermal relaxation technique. Chemical Physics Letters, 2013, 555, 239-246.	1.2	2
72	Growth behavior and dielectric properties of K/Mg alternately doped BST films. Integrated Ferroelectrics, 2018, 191, 8-19.	0.3	2

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73	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup (Small 46/2021). Small, 2021, 17, 2170244.	5.2	2
74	Effect of potassium and magnesium codoping on the dielectric properties of BST powders. Integrated Ferroelectrics, 2018, 191, 60-71.	0.3	1
75	Effective medium theory for predictions of the thermal conductivity of multiphase carbon-based nanocomposites: methodologies and applications. , 2020, , 33-53.		1
76	Ultralow dielectric loss of Y and Mn alternately doped nonstoichiometric BST films. Integrated Ferroelectrics, 2018, 191, 158-168.	0.3	0