

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	1+1>2: Learning from the interfacial modulation on single-atom electrocatalysts to design dual-atom electrocatalysts for dinitrogen reduction. <i>Green Energy and Environment</i> , 2023, 8, 1753-1763.	4.7	6
2	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
3	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
4	Enhanced thermal transport and corrosion resistance by coating vertically-aligned graphene on zirconium alloy for nuclear reactor applications. <i>Applied Surface Science</i> , 2022, 582, 152484.	3.1	8
5	Hydroxyâ€Groupâ€Functionalized Single Crystal of Copper(II)â€Porphyrin Complex for Electroreduction CO ₂ to CH ₄ . <i>ChemSusChem</i> , 2022, , .	3.6	3
6	Coâ€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
7	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
8	Enhanced Thermal Transport Properties of Graphene/SiC Heterostructures on Nuclear Reactor Cladding Material: A Molecular Dynamics Insight. <i>Nanomaterials</i> , 2022, 12, 894.	1.9	7
9	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
10	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
11	Tailoring Coordination Microenvironment of Cu(I) in Metalâ€Organic Frameworks for Enhancing Electroreduction of CO ₂ to CH ₄ . <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	42
12	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
13	Hybridized cobalt/manganese vanadates as high-performance anodes in lithium ion battery. <i>Materials Letters</i> , 2021, 283, 128782.	1.3	8
14	Transition metal vanadates electrodes in lithium-ion batteries: A holistic review. <i>Energy Storage Materials</i> , 2021, 35, 169-191.	9.5	56
15	Enhanced supercapacitor performance of bimetallic metal selenides via controllable synergistic engineering of composition. <i>Electrochimica Acta</i> , 2021, 370, 137802.	2.6	22
16	Rational Synthesis of â€Grapeâ€Likeâ€Ni ₂ V ₂ O ₇ Microspheres as Highâ€capacity Anodes for Rechargeable Lithium Batteries. <i>Chemistry - an Asian Journal</i> , 2021, 16, 775-782.	1.7	7
17	Critical Roles of the Oxygen-Containing Functional Groups via Î²-O-4 Lignin Linkage Hydrogenolysis over Copper Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10939-10947.	3.2	22
18	Recycling Polymeric Solid Wastes for Energyâ€Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. <i>Small</i> , 2021, 17, e2102459.	5.2	11

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19	Enhanced NH ₃ decomposition for H ₂ production over bimetallic M(M=Co, Fe, Cu)Ni/Al ₂ O ₃ . Fuel Processing Technology, 2021, 221, 106945.	3.7	33
20	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
21	Crystalline isotype heptazine/triazine-based carbon nitride heterojunctions for an improved hydrogen evolution. Applied Catalysis B: Environmental, 2020, 268, 118381.	10.8	130
22	Solid waste and graphite derived solar steam generator for highly-efficient and cost-effective water purification. Applied Energy, 2020, 261, 114410.	5.1	70
23	A flexible electrokinetic power generator derived from paper and ink for wearable electronics. Applied Energy, 2020, 279, 115764.	5.1	23
24	Effective medium theory for predictions of the thermal conductivity of multiphase carbon-based nanocomposites: methodologies and applications. , 2020, , 33-53.		1
25	Facile and Controllable Synthesis of Co ₂ V ₂ O ₇ Microplatelets Anchored on Graphene Layers toward Superior Li-Ion Battery Anodes. Energy & Fuels, 2020, 34, 7616-7621.	2.5	22
26	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
27	Pure-phase β -Mn ₂ V ₂ O ₇ interconnected nanospheres as a high-performance lithium ion battery anode. Chemical Communications, 2020, 56, 8043-8046.	2.2	10
28	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
29	Agricultural waste-derived moisture-absorber for all-weather atmospheric water collection and electricity generation. Nano Energy, 2020, 74, 104922.	8.2	91
30	Controllable morphologies and electrochemical performances of self-assembled nano-honeycomb WS ₂ anodes modified by graphene doping for lithium and sodium ion batteries. Carbon, 2019, 142, 697-706.	5.4	76
31	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. Journal of Materials Chemistry A, 2019, 7, 18823-18827.	5.2	107
32	Cellulose-Hydrogel-Derived Self-Activated Carbon/SnO ₂ Nanocomposites for High-Performance Lithium Storage. ACS Applied Energy Materials, 2019, 2, 5171-5182.	2.5	29
33	Biomass-derived oxygen-doped hollow carbon microtubes for electrocatalytic N ₂ -to-NH ₃ fixation under ambient conditions. Chemical Communications, 2019, 55, 2684-2687.	2.2	54
34	Optimized sulfur-loading in nitrogen-doped porous carbon for high-capacity cathode of lithium-sulfur batteries. Applied Surface Science, 2019, 487, 784-792.	3.1	29
35	MOF-derived manganese monoxide nanosheet-assembled microflowers for enhanced lithium-ion storage. Nanoscale, 2019, 11, 10763-10773.	2.8	29
36	Mn ₃ O ₄ nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N ₂ fixation to NH ₃ at ambient conditions. Nano Research, 2019, 12, 1093-1098.	5.8	93

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37	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
38	Tribological and wear performances of graphene-oil nanofluid under industrial high-speed rotation. <i>Tribology International</i> , 2019, 135, 112-120.	3.0	31
39	Electrocatalytic Hydrogenation of N ₂ to NH ₃ by MnO: Experimental and Theoretical Investigations. <i>Advanced Science</i> , 2019, 6, 1801182.	5.6	117
40	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
41	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
42	Uniform Co ₃ V ₂ O ₈ microspheres <i>via</i> controllable assembly for high-performance lithium-ion battery anodes. <i>New Journal of Chemistry</i> , 2018, 42, 4881-4886.	1.4	9
43	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
44	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
45	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
46	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
47	Growth behavior and dielectric properties of K/Mg alternately doped BST films. <i>Integrated Ferroelectrics</i> , 2018, 191, 8-19.	0.3	2
48	Ultralow dielectric loss of Y and Mn alternately doped nonstoichiometric BST films. <i>Integrated Ferroelectrics</i> , 2018, 191, 158-168.	0.3	0
49	Effect of potassium and magnesium codoping on the dielectric properties of BST powders. <i>Integrated Ferroelectrics</i> , 2018, 191, 60-71.	0.3	1
50	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
51	Predictions of the thermal conductivity of multiphase nanocomposites with complex structures. <i>Journal of Materials Science</i> , 2018, 53, 12157-12166.	1.7	13
52	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
53	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
54	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

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55	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
56	Recent Advances in Graphene-Based Free-Standing Films for Thermal Management: Synthesis, Properties, and Applications. <i>Coatings</i> , 2018, 8, 63.	1.2	43
57	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
58	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
59	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
60	Effective thermal transport properties in multiphase biological systems containing carbon nanomaterials. <i>RSC Advances</i> , 2017, 7, 13615-13622.	1.7	18
61	An in situ iodine-doped graphene/silicon composite paper as a highly conductive and self-supporting electrode for lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 38639-38646.	1.7	12
62	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
63	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
64	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
65	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
66	Mesoscopic modeling of heat transfer in carbon nanotube multiphase polymer composites. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
67	Interface Tension-Induced Synthesis of Monodispersed Mesoporous Carbon Hemispheres. <i>Journal of the American Chemical Society</i> , 2015, 137, 2808-2811.	6.6	113
68	Prediction of thermal resistances and heat conduction of carbon nanotube aerogels in various permeated gases. <i>Chemical Physics Letters</i> , 2015, 627, 116-120.	1.2	11
69	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
70	Advanced multifunctional graphene aerogel " Poly (methyl methacrylate) composites: Experiments and modeling. <i>Carbon</i> , 2015, 81, 396-404.	5.4	127
71	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
72	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

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73	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
74	Computational study on anisotropic thermal characterization of multi-scale wires using transient electrothermal technique. <i>International Journal of Thermal Sciences</i> , 2014, 77, 165-171.	2.6	3
75	Anisotropic heat transfer prediction of multiscale wires using pulse laser thermal relaxation technique. <i>Chemical Physics Letters</i> , 2013, 555, 239-246.	1.2	2
76	Advanced Fabrication and Properties of Aligned Carbon Nanotube Composites: Experiments and Modeling. , 0, , .		10