

Feng Gong

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

2,463
citations

26
h-index

49
g-index

76
ext. papers

3,072
ext. citations

7.9
avg, IF

5.4
L-index

#	Paper	IF	Citations
71	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	6.7	0
70	Co-NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia.. <i>Chemical Communications</i> , 2022 ,	5.8	1
69	High-efficiency NO electroreduction to NH over honeycomb carbon nanofiber at ambient conditions.. <i>Journal of Colloid and Interface Science</i> , 2022 , 616, 261-267	9.3	2
68	Low-grade energy harvesting from dispersed exhaust steam for power generation using a soft biomimetic actuator. <i>Nano Energy</i> , 2021 , 91, 106677	17.1	1
67	A general strategy for designing metal-free catalysts for highly-efficient nitric oxide reduction to ammonia. <i>Fuel</i> , 2021 , 122442	7.1	5
66	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup (Small 46/2021). <i>Small</i> , 2021 , 17, 2170244	11	2
65	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	14.7	3
64	Hybridized cobalt/manganese vanadates as high-performance anodes in lithium ion battery. <i>Materials Letters</i> , 2021 , 283, 128782	3.3	5
63	Transition metal vanadates electrodes in lithium-ion batteries: A holistic review. <i>Energy Storage Materials</i> , 2021 , 35, 169-191	19.4	15
62	Enhanced supercapacitor performance of bimetallic metal selenides via controllable synergistic engineering of composition. <i>Electrochimica Acta</i> , 2021 , 370, 137802	6.7	7
61	Rational Synthesis of "Grape-like" Ni V O Microspheres as High-capacity Anodes for Rechargeable Lithium Batteries. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 775-782	4.5	2
60	Critical Roles of the Oxygen-Containing Functional Groups via EO-4 Lignin Linkage Hydrogenolysis over Copper Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10939-10947	8.3	4
59	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. <i>Small</i> , 2021 , 17, e2102459	11	2
58	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	7.2	5
57	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	4.1	14
56	Addressing the challenge of fabricating a high content regenerated cellulose/nanomaterial composite: the magical effect of urea. <i>Green Chemistry</i> , 2020 , 22, 4121-4127	10	4
55	Pure-phase δ -MnVO interconnected nanospheres as a high-performance lithium ion battery anode. <i>Chemical Communications</i> , 2020 , 56, 8043-8046	5.8	7

54	Direct Thermal Pyrolysis Enabling the Use of Cobalt Oxides Nanoparticles From Commercial Acetates as High-Capacity Anodes for Lithium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 13564-13571	3.9	5
53	Agricultural waste-derived moisture-absorber for all-weather atmospheric water collection and electricity generation. <i>Nano Energy</i> , 2020 , 74, 104922	17.1	30
52	Crystalline isotype heptazine-/triazine-based carbon nitride heterojunctions for an improved hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118381	21.8	66
51	Solid waste and graphite derived solar steam generator for highly-efficient and cost-effective water purification. <i>Applied Energy</i> , 2020 , 261, 114410	10.7	39
50	A flexible electrokinetic power generator derived from paper and ink for wearable electronics. <i>Applied Energy</i> , 2020 , 279, 115764	10.7	8
49	Effective medium theory for predictions of the thermal conductivity of multiphase carbon-based nanocomposites: methodologies and applications 2020 , 33-53		
48	Biomass-derived oxygen-doped hollow carbon microtubes for electrocatalytic N-to-NH fixation under ambient conditions. <i>Chemical Communications</i> , 2019 , 55, 2684-2687	5.8	39
47	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	6.7	19
46	MOF-derived manganese monoxide nanosheet-assembled microflowers for enhanced lithium-ion storage. <i>Nanoscale</i> , 2019 , 11, 10763-10773	7.7	22
45	Mn3O4 nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N2 fixation to NH3 at ambient conditions. <i>Nano Research</i> , 2019 , 12, 1093-1098	10	66
44	Efficient electrohydrogenation of N to NH by oxidized carbon nanotubes under ambient conditions. <i>Chemical Communications</i> , 2019 , 55, 4997-5000	5.8	66
43	Controllable morphologies and electrochemical performances of self-assembled nano-honeycomb WS2 anodes modified by graphene doping for lithium and sodium ion batteries. <i>Carbon</i> , 2019 , 142, 697-706	10.4	56
42	An MnO2@Ti3C2Tx MXene nanohybrid: an efficient and durable electrocatalyst toward artificial N2 fixation to NH3 under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18823-18827	13	73
41	Cellulose-Hydrogel-Derived Self-Activated Carbon/SnO2 Nanocomposites for High-Performance Lithium Storage. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5171-5182	6.1	22
40	Tribological and wear performances of graphene-oil nanofluid under industrial high-speed rotation. <i>Tribology International</i> , 2019 , 135, 112-120	4.9	19
39	Electrocatalytic Hydrogenation of N to NH by MnO: Experimental and Theoretical Investigations. <i>Advanced Science</i> , 2019 , 6, 1801182	13.6	92
38	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	17.1	172
37	Enhancing Electrocatalytic N2 Reduction to NH3 by CeO2 Nanorod with Oxygen Vacancies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2889-2893	8.3	71

36	Uniform Co ₃ V ₂ O ₈ microspheres via controllable assembly for high-performance lithium-ion battery anodes. <i>New Journal of Chemistry</i> , 2018 , 42, 4881-4886	3.6	7
35	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	6.7	39
34	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	8.6	105
33	Enhanced Electrochemical and Thermal Transport Properties of Graphene/MoS Heterostructures for Energy Storage: Insights from Multiscale Modeling. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14614-14621	9.5	43
32	Molybdenum and tungsten disulfides-based nanocomposite films for energy storage and conversion: A review. <i>Chemical Engineering Journal</i> , 2018 , 348, 908-928	14.7	79
31	Recent Advances in Graphene-Based Free-Standing Films for Thermal Management: Synthesis, Properties, and Applications. <i>Coatings</i> , 2018 , 8, 63	2.9	31
30	Growth behavior and dielectric properties of K/Mg alternately doped BST films. <i>Integrated Ferroelectrics</i> , 2018 , 191, 8-19	0.8	1
29	Ultralow dielectric loss of Y and Mn alternately doped nonstoichiometric BST films. <i>Integrated Ferroelectrics</i> , 2018 , 191, 158-168	0.8	
28	Effect of potassium and magnesium codoping on the dielectric properties of BST powders. <i>Integrated Ferroelectrics</i> , 2018 , 191, 60-71	0.8	1
27	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	16.4	288
26	Predictions of the thermal conductivity of multiphase nanocomposites with complex structures. <i>Journal of Materials Science</i> , 2018 , 53, 12157-12166	4.3	10
25	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	15.6	94
24	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	5.7	29
23	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	5.6	35
22	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	3.9	47
21	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	4.4	26
20	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	3.6	16
19	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	3.1	32

18	Effective thermal transport properties in multiphase biological systems containing carbon nanomaterials. <i>RSC Advances</i> , 2017 , 7, 13615-13622	3.7	15
17	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	3.7	9
16	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	3.7	16
15	A Facile Approach to Tune the Electrical and Thermal Properties of Graphene Aerogels by Including Bulk MoS ₂ <i>Nanomaterials</i> , 2017 , 7,	5.4	21
14	Mesoscopic modeling of heat transfer in carbon nanotube multiphase polymer composites 2016 ,		2
13	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,	5.4	10
12	Advanced Fabrication and Properties of Aligned Carbon Nanotube Composites: Experiments and Modeling 2016 ,		9
11	Synthesis of 2D-Mesoporous-Carbon/MoS Heterostructures with Well-Defined Interfaces for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 9385-9390	24	218
10	Prediction of thermal resistances and heat conduction of carbon nanotube aerogels in various permeated gases. <i>Chemical Physics Letters</i> , 2015 , 627, 116-120	2.5	10
9	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	3.8	20
8	Advanced multifunctional graphene aerogel/Poly (methyl methacrylate) composites: Experiments and modeling. <i>Carbon</i> , 2015 , 81, 396-404	10.4	106
7	Interface tension-induced synthesis of monodispersed mesoporous carbon hemispheres. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2808-11	16.4	98
6	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	2.3	17
5	Thermal transport phenomena and limitations in heterogeneous polymer composites containing carbon nanotubes and inorganic nanoparticles. <i>Carbon</i> , 2014 , 78, 305-316	10.4	48
4	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	4.1	2
3	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	3.4	21
2	Anisotropic heat transfer prediction of multiscale wires using pulse laser thermal relaxation technique. <i>Chemical Physics Letters</i> , 2013 , 555, 239-246	2.5	2
1	FeP nanorod array: A high-efficiency catalyst for electroreduction of NO to NH ₃ under ambient conditions. <i>Nano Research</i> , 1	10	4

