

Wen-Bin Gong

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

3,150
citations

186265

28
h-index

161849

54
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73
all docs

73
docs citations

73
times ranked

4082
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Purity Monochiral Carbon Nanotubes with a 1.2Ånm Diameter for High-Performance Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2022, 32, 2107119.	14.9	16
2	“One Stone Two Birds” Design for Dual-Functional TiO ₂ /TiN Heterostructures Enabled Dendrite-Free and Kinetics-Enhanced Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	80
3	Balancing the film strain of organic semiconductors for ultrastable organic transistors with a five-year lifetime. <i>Nature Communications</i> , 2022, 13, 1480.	12.8	26
4	Stabilizing photo-induced vacancy defects in MOF matrix for high-performance SERS detection. <i>Nano Research</i> , 2022, 15, 5347-5354.	10.4	21
5	CoNiO ₂ /Co ₄ N Heterostructure Nanowires Assisted Polysulfide Reaction Kinetics for Improved Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2022, 9, e2104375.	11.2	42
6	Calcium-Doped Boron Nitride Aerogel Enables Infrared Stealth at High Temperature Up to 1300Å°C. <i>Nano-Micro Letters</i> , 2022, 14, 18.	27.0	21
7	Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets with Activated Ligand-Cluster Units for Enhanced SERS. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2326-2334.	8.0	14
8	Coaxially grafting conjugated microporous polymers containing single-atom cobalt catalysts to carbon nanotubes enhances sulfur cathode reaction kinetics. <i>Chemical Engineering Journal</i> , 2022, 444, 136546.	12.7	24
9	Symmetry-breaking triggered by atomic tungsten for largely enhanced piezoelectric response in hexagonal boron nitride. <i>Nano Energy</i> , 2022, 99, 107375.	16.0	6
10	Janus Electrolyte with Modified Li ⁺ Solvation for High-Performance Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	30
11	Ultrathin Two-Dimensional Nanostructures: Surface Defects for Morphology-Driven Enhanced Semiconductor SERS. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5505-5511.	13.8	123
12	High-Capacity Iron-Based Anodes for Aqueous Secondary Nickel-Iron Batteries: Recent Progress and Prospects. <i>ChemElectroChem</i> , 2021, 8, 274-290.	3.4	23
13	Ultrathin Two-Dimensional Nanostructures: Surface Defects for Morphology-Driven Enhanced Semiconductor SERS. <i>Angewandte Chemie</i> , 2021, 133, 5565-5571.	2.0	11
14	Boosting Zn-ion storage capability of self-standing Zn-doped Co ₃ O ₄ nanowire array as advanced cathodes for high-performance wearable aqueous rechargeable Co//Zn batteries. <i>Nano Research</i> , 2021, 14, 91-99.	10.4	50
15	Structure-induced partial phase transformation endows hollow TiO ₂ /TiN heterostructure fibers stacked with nanosheet arrays with extraordinary sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12109-12118.	10.3	16
16	Interconnected surface-vacancy-rich PtFe nanowires for efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12845-12852.	10.3	18
17	NaTi ₂ (PO ₄) ₃ hollow nanoparticles encapsulated in carbon nanofibers as novel anodes for flexible aqueous rechargeable sodium-ion batteries. <i>Nano Energy</i> , 2021, 82, 105764.	16.0	43
18	Revealing molecular conformation-induced stress at embedded interfaces of organic optoelectronic devices by sum frequency generation spectroscopy. <i>Science Advances</i> , 2021, 7, .	10.3	29

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19	Horizontally aligned surface segments enhancing the adhesion of carbon nanotube forests. Carbon, 2021, 176, 540-547.	10.3	6
20	Silica Aerogels with Self-Reinforced Microstructure for Bioinspired Hydrogels. Langmuir, 2021, 37, 5923-5931.	3.5	10
21	Wood-Inspired Binder Enabled Vertical 3D Printing of $\text{g-C}_3\text{N}_4/\text{CNT}$ Arrays for Highly Efficient Photoelectrochemical Hydrogen Evolution. Advanced Functional Materials, 2021, 31, 2105045.	14.9	34
22	Genuine divalent magnesium-ion storage and fast diffusion kinetics in metal oxides at room temperature. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
23	Synergistic Manipulation of Zn^{2+} Ion Flux and Nucleation Induction Effect Enabled by 3D Hollow $\text{SiO}_2/\text{TiO}_2/\text{Carbon}$ Fiber for Long-Life Span and Dendrite-Free Zn Metal Composite Anodes. Advanced Functional Materials, 2021, 31, 2106417.	14.9	74
24	Effect of dispersion time on the microstructural and mechanical properties of carbon nanotube solutions and their spun fibers. Composites Communications, 2021, 27, 100872.	6.3	7
25	A Conjugated Porous Polymer Complexed with a Single-Atom Cobalt Catalyst as An Electrocatalytic Sulfur Host for Enhancing Cathode Reaction Kinetics. Energy Storage Materials, 2021, 41, 14-23.	18.0	51
26	Towards ultrahigh-energy-density flexible aqueous rechargeable Ni//Bi batteries: Free-standing hierarchical nanowire arrays core-shell heterostructures system. Energy Storage Materials, 2021, 42, 815-825.	18.0	31
27	PtNiFe nanoalloys with co-existence of energy-optimized active surfaces for synergistic catalysis of oxygen reduction and evolution. Journal of Materials Chemistry A, 2021, 9, 16187-16195.	10.3	9
28	Electrokinetic effect and H_2O_2 boosting in synthetic graphene/ FeOOH aerogel films for the generation of electricity. Journal of Materials Chemistry A, 2021, 9, 5588-5596.	10.3	9
29	High-Capacity Iron-Based Anodes for Aqueous Secondary Nickel-Iron Batteries: Recent Progress and Prospects. ChemElectroChem, 2021, 8, 273-273.	3.4	2
30	Eutectoid-structured WC/W ₂ C heterostructures: A new platform for long-term alkaline hydrogen evolution reaction at low overpotentials. Nano Energy, 2020, 68, 104335.	16.0	98
31	All Two-Dimensional Pseudocapacitive Sheet Materials for Flexible Asymmetric Solid-State Planar Microsupercapacitors with High Energy Density. ACS Nano, 2020, 14, 603-610.	14.6	53
32	Multifunctional Aramid Nanofiber/Carbon Nanotube Hybrid Aerogel Films. ACS Nano, 2020, 14, 688-697.	14.6	298
33	Understanding the influence of single-walled carbon nanotube dispersion states on the microstructure and mechanical properties of wet-spun fibers. Carbon, 2020, 169, 17-24.	10.3	22
34	MOF-derived vertically stacked Mn_2O_3 @C flakes for fiber-shaped zinc-ion batteries. Journal of Materials Chemistry A, 2020, 8, 24031-24039.	10.3	48
35	Electrocatalysis: Kinetic Enhancement of Sulfur Cathodes by N-Doped Porous Graphitic Carbon with Bound VN Nanocrystals (Small 48/2020). Small, 2020, 16, 2070261.	10.0	2
36	Kinetic Enhancement of Sulfur Cathodes by N-Doped Porous Graphitic Carbon with Bound VN Nanocrystals. Small, 2020, 16, e2004950.	10.0	64

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37	A Dopant Replacement-Driven Molten Salt Method toward the Synthesis of Sub-5-nm-Sized Ultrathin Nanowires. <i>Small</i> , 2020, 16, 2001098.	10.0	8
38	Remarkable Near-Infrared Electrochromism in Tungsten Oxide Driven by Interlayer Water-Induced Battery-to-Pseudocapacitor Transition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33917-33925.	8.0	61
39	Molecularly Thin Nitride Sheets Stabilized by Titanium Carbide as Efficient Bifunctional Electrocatalysts for Fiber-Shaped Rechargeable Zinc-Air Batteries. <i>Nano Letters</i> , 2020, 20, 2892-2898.	9.1	68
40	Rational Construction of Self-Standing Sulfur-Doped Fe ₂ O ₃ Anodes with Promoted Energy Storage Capability for Wearable Aqueous Rechargeable NiCo-Fe Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001064.	19.5	39
41	Engineering MoS ₂ Nanosheets on Spindle-Like Fe ₂ O ₃ as High-Performance Core-Shell Pseudocapacitive Anodes for Fiber-Shaped Aqueous Lithium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020, 30, 2003967.	14.9	60
42	Interface engineered and surface modulated electrode materials for ultrahigh-energy-density wearable NiCo//Fe batteries. <i>Energy Storage Materials</i> , 2020, 27, 316-326.	18.0	40
43	Surface-Modified Two-Dimensional Titanium Carbide Sheets for Intrinsic Vibrational Signal-Retained Surface-Enhanced Raman Scattering with Ultrahigh Uniformity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23523-23531.	8.0	25
44	Size-Independent Fast Ion Intercalation in Two-Dimensional Titania Nanosheets for Alkali-Metal-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 8832-8837.	2.0	13
45	Size-Independent Fast Ion Intercalation in Two-Dimensional Titania Nanosheets for Alkali-Metal-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8740-8745.	13.8	53
46	On-Demand Preparation of Phase-Dominated Tungsten Films for Highly Qualified Thermal Reflectors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900031.	3.7	6
47	Boron Nitride Aerogels with Super-Flexibility Ranging from Liquid Nitrogen Temperature to 1000 Å°C. <i>Advanced Functional Materials</i> , 2019, 29, 1900188.	14.9	97
48	Coordination-controlled single-atom tungsten as a non-3d-metal oxygen reduction reaction electrocatalyst with ultrahigh mass activity. <i>Nano Energy</i> , 2019, 60, 394-403.	16.0	119
49	Developing strong and tough carbon nanotube films by a proper dispersing strategy and enhanced interfacial interactions. <i>Carbon</i> , 2019, 149, 117-124.	10.3	13
50	Electrochromic semiconductors as colorimetric SERS substrates with high reproducibility and renewability. <i>Nature Communications</i> , 2019, 10, 678.	12.8	131
51	Defect engineered bioactive transition metals dichalcogenides quantum dots. <i>Nature Communications</i> , 2019, 10, 41.	12.8	168
52	Active Manipulation of NIR Plasmonics: the Case of Cu ₂ Se through Electrochemistry. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 274-280.	4.6	29
53	Bio-inspired synthesis of highly crystallized hexagonal boron nitride nanosheets. <i>Ceramics International</i> , 2018, 44, 14228-14235.	4.8	8
54	Hot-pressing induced alignment of boron nitride in polyurethane for composite films with thermal conductivity over 50 Wm ⁻¹ K ⁻¹ . <i>Composites Science and Technology</i> , 2018, 160, 199-207.	7.8	212

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55	Hot pressing-induced alignment of hexagonal boron nitride in SEBS elastomer for superior thermally conductive composites. RSC Advances, 2018, 8, 25835-25845.	3.6	24
56	Strengthening carbon nanotube fibers with semi-crystallized polyvinyl alcohol and hot-stretching. Composites Science and Technology, 2018, 164, 290-295.	7.8	28
57	Strong graphene-interlayered carbon nanotube films with high thermal conductivity. Carbon, 2017, 118, 659-665.	10.3	62
58	Morphology-Controlled Synthesis of Hybrid Nanocrystals via a Selenium-Mediated Strategy with Ligand Shielding Effect: The Case of Dual Plasmonic Au@Cu ₂ Se. ACS Nano, 2017, 11, 3776-3785.	14.6	40
59	Joining cross-stacked carbon nanotube architecture with covalent bonding. Applied Physics Letters, 2017, 110, 183101.	3.3	4
60	Influence of self-consistent screening and polarizability contractions on interlayer sliding behavior of hexagonal boron nitride. Physical Review B, 2017, 96, .	3.2	1
61	Enhanced thermal conductivity of free-standing 3D hierarchical carbon nanotube-graphene hybrid paper. Composites Part A: Applied Science and Manufacturing, 2017, 102, 1-8.	7.6	70
62	Semiconductor SERS enhancement enabled by oxygen incorporation. Nature Communications, 2017, 8, 1993.	12.8	306
63	Molecular dynamics study on radial deformation of armchair single-walled boron nitride nanotubes. Applied Physics Express, 2017, 10, 105001.	2.4	5
64	Adsorption and diffusion of fluorine on Cr-doped Ni(111) surface: Fluorine-induced initial corrosion of non-passivated Ni-based alloy. Journal of Nuclear Materials, 2016, 478, 295-302.	2.7	14
65	Fluorine interaction with defects on graphite surface by a first-principles study. Applied Surface Science, 2014, 292, 488-493.	6.1	8
66	Strain-controlled interface engineering of binding and charge doping at metal-graphene contacts. Applied Physics Letters, 2013, 103, 143107.	3.3	4
67	Molecular dynamics study on the generation and propagation of heat signals in single-wall carbon nanotubes. RSC Advances, 2013, 3, 12855.	3.6	2
68	Theoretical study on the interaction between graphene divacancies and C ₂ H ₂ . Chemical Physics Letters, 2013, 567, 43-47.	2.6	3
69	Molecular Dynamics Simulation of Damage to Coiled Carbon Nanotubes under C Ion Irradiation. Chinese Physics Letters, 2013, 30, 113402.	3.3	0