

# Wen-Bin Gong

## List of Publications by Year in descending order

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69  
papers

3,150  
citations

186209

28  
h-index

161767

54  
g-index

73  
all docs

73  
docs citations

73  
times ranked

4082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semiconductor SERS enhancement enabled by oxygen incorporation. Nature Communications, 2017, 8, 1993.	5.8	306
2	Multifunctional Aramid Nanofiber/Carbon Nanotube Hybrid Aerogel Films. ACS Nano, 2020, 14, 688-697.	7.3	298
3	Hot-pressing induced alignment of boron nitride in polyurethane for composite films with thermal conductivity over $50 \text{ W m}^{-1} \text{ K}^{-1}$ . Composites Science and Technology, 2018, 160, 199-207.	3.8	212
4	Defect engineered bioactive transition metals dichalcogenides quantum dots. Nature Communications, 2019, 10, 41.	5.8	168
5	Electrochromic semiconductors as colorimetric SERS substrates with high reproducibility and renewability. Nature Communications, 2019, 10, 678.	5.8	131
6	Ultrathin Two-Dimensional Nanostructures: Surface Defects for Morphology-Driven Enhanced Semiconductor SERS. Angewandte Chemie - International Edition, 2021, 60, 5505-5511.	7.2	123
7	Coordination-controlled single-atom tungsten as a non-3d-metal oxygen reduction reaction electrocatalyst with ultrahigh mass activity. Nano Energy, 2019, 60, 394-403.	8.2	119
8	Eutectoid-structured WC/W <sub>2</sub> C heterostructures: A new platform for long-term alkaline hydrogen evolution reaction at low overpotentials. Nano Energy, 2020, 68, 104335.	8.2	98
9	Boron Nitride Aerogels with Super-Flexibility Ranging from Liquid Nitrogen Temperature to 1000 Å°C. Advanced Functional Materials, 2019, 29, 1900188.	7.8	97
10	“One Stone Two Birds” Design for Dual-Functional TiO <sub>2</sub> /TiN Heterostructures Enabled Dendrite-Free and Kinetics-Enhanced Lithium-Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	10.2	80
11	Synergistic Manipulation of Zn <sup>2+</sup> Ion Flux and Nucleation Induction Effect Enabled by 3D Hollow SiO <sub>2</sub> /TiO <sub>2</sub> /Carbon Fiber for Long-Lifespan and Dendrite-Free Zn-Metal Composite Anodes. Advanced Functional Materials, 2021, 31, 2106417.	7.8	74
12	Enhanced thermal conductivity of free-standing 3D hierarchical carbon nanotube-graphene hybrid paper. Composites Part A: Applied Science and Manufacturing, 2017, 102, 1-8.	3.8	70
13	Molecularly Thin Nitride Sheets Stabilized by Titanium Carbide as Efficient Bifunctional Electrocatalysts for Fiber-Shaped Rechargeable Zinc-Air Batteries. Nano Letters, 2020, 20, 2892-2898.	4.5	68
14	Kinetic Enhancement of Sulfur Cathodes by N-Doped Porous Graphitic Carbon with Bound VN Nanocrystals. Small, 2020, 16, e2004950.	5.2	64
15	Strong graphene-interlayered carbon nanotube films with high thermal conductivity. Carbon, 2017, 118, 659-665.	5.4	62
16	Remarkable Near-Infrared Electrochromism in Tungsten Oxide Driven by Interlayer Water-Induced Battery-to-Pseudocapacitor Transition. ACS Applied Materials & Interfaces, 2020, 12, 33917-33925.	4.0	61
17	Engineering MoS <sub>2</sub> Nanosheets on Spindle-Like Fe <sub>2</sub> O <sub>3</sub> as High-Performance Core-Shell Pseudocapacitive Anodes for Fiber-Shaped Aqueous Lithium-Ion Capacitors. Advanced Functional Materials, 2020, 30, 2003967.	7.8	60
18	Size-Independent Fast Ion Intercalation in Two-Dimensional Titania Nanosheets for Alkali-Metal-Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 8740-8745.	7.2	53

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19	All Two-Dimensional Pseudocapacitive Sheet Materials for Flexible Asymmetric Solid-State Planar Microsupercapacitors with High Energy Density. <i>ACS Nano</i> , 2020, 14, 603-610.	7.3	53
20	A Conjugated Porous Polymer Complexed with a Single-Atom Cobalt Catalyst as An Electrocatalytic Sulfur Host for Enhancing Cathode Reaction Kinetics. <i>Energy Storage Materials</i> , 2021, 41, 14-23.	9.5	51
21	Boosting Zn-ion storage capability of self-standing Zn-doped Co <sub>3</sub> O <sub>4</sub> nanowire array as advanced cathodes for high-performance wearable aqueous rechargeable Co//Zn batteries. <i>Nano Research</i> , 2021, 14, 91-99.	5.8	50
22	MOF-derived vertically stacked Mn <sub>2</sub> O <sub>3</sub> @C flakes for fiber-shaped zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24031-24039.	5.2	48
23	NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> hollow nanoparticles encapsulated in carbon nanofibers as novel anodes for flexible aqueous rechargeable sodium-ion batteries. <i>Nano Energy</i> , 2021, 82, 105764.	8.2	43
24	CoNiO <sub>2</sub> /Co <sub>4</sub> N Heterostructure Nanowires Assisted Polysulfide Reaction Kinetics for Improved Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2022, 9, e2104375.	5.6	42
25	Morphology-Controlled Synthesis of Hybrid Nanocrystals <i>via</i> a Selenium-Mediated Strategy with Ligand Shielding Effect: The Case of Dual Plasmonic Au@Cu <sub>2</sub> Se. <i>ACS Nano</i> , 2017, 11, 3776-3785.	7.3	40
26	Interface engineered and surface modulated electrode materials for ultrahigh-energy-density wearable NiCo//Fe batteries. <i>Energy Storage Materials</i> , 2020, 27, 316-326.	9.5	40
27	Rational Construction of Self-Standing Sulfur-Doped Fe <sub>2</sub> O <sub>3</sub> Anodes with Promoted Energy Storage Capability for Wearable Aqueous Rechargeable NiCo@Fe Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001064.	10.2	39
28	Wood-Inspired Binder Enabled Vertical 3D Printing of g-C <sub>3</sub> N <sub>4</sub> /CNT Arrays for Highly Efficient Photoelectrochemical Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2105045.	7.8	34
29	Towards ultrahigh-energy-density flexible aqueous rechargeable Ni//Bi batteries: Free-standing hierarchical nanowire arrays core-shell heterostructures system. <i>Energy Storage Materials</i> , 2021, 42, 815-825.	9.5	31
30	Janus Electrolyte with Modified Li <sup>+</sup> Solvation for High-Performance Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	30
31	Active Manipulation of NIR Plasmonics: the Case of Cu <sub>2</sub> Se through Electrochemistry. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 274-280.	2.1	29
32	Revealing molecular conformation-induced stress at embedded interfaces of organic optoelectronic devices by sum frequency generation spectroscopy. <i>Science Advances</i> , 2021, 7, .	4.7	29
33	Strengthening carbon nanotube fibers with semi-crystallized polyvinyl alcohol and hot-stretching. <i>Composites Science and Technology</i> , 2018, 164, 290-295.	3.8	28
34	Balancing the film strain of organic semiconductors for ultrastable organic transistors with a five-year lifetime. <i>Nature Communications</i> , 2022, 13, 1480.	5.8	26
35	Surface-Modified Two-Dimensional Titanium Carbide Sheets for Intrinsic Vibrational Signal-Retained Surface-Enhanced Raman Scattering with Ultrahigh Uniformity. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23523-23531.	4.0	25
36	Hot pressing-induced alignment of hexagonal boron nitride in SEBS elastomer for superior thermally conductive composites. <i>RSC Advances</i> , 2018, 8, 25835-25845.	1.7	24

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37	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.	6.6	24
38	High-Capacity Iron-Based Anodes for Aqueous Secondary Nickel-Iron Batteries: Recent Progress and Prospects. <i>ChemElectroChem</i> , 2021, 8, 274-290.	1.7	23
39	Understanding the influence of single-walled carbon nanotube dispersion states on the microstructure and mechanical properties of wet-spun fibers. <i>Carbon</i> , 2020, 169, 17-24.	5.4	22
40	Stabilizing photo-induced vacancy defects in MOF matrix for high-performance SERS detection. <i>Nano Research</i> , 2022, 15, 5347-5354.	5.8	21
41	Calcium-Doped Boron Nitride Aerogel Enables Infrared Stealth at High Temperature Up to 1300°C. <i>Nano-Micro Letters</i> , 2022, 14, 18.	14.4	21
42	Interconnected surface-vacancy-rich PtFe nanowires for efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12845-12852.	5.2	18
43	Structure-induced partial phase transformation endows hollow TiO <sub>2</sub> /TiN heterostructure fibers stacked with nanosheet arrays with extraordinary sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12109-12118.	5.2	16
44	High-Purity Monochiral Carbon Nanotubes with a 1.2-nm Diameter for High-Performance Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2022, 32, 2107119.	7.8	16
45	Adsorption and diffusion of fluorine on Cr-doped Ni(111) surface: Fluorine-induced initial corrosion of non-passivated Ni-based alloy. <i>Journal of Nuclear Materials</i> , 2016, 478, 295-302.	1.3	14
46	Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets with Activated Ligand-Cluster Units for Enhanced SERS. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2326-2334.	4.0	14
47	Size-Independent Fast Ion Intercalation in Two-Dimensional Titania Nanosheets for Alkali-Metal-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 8832-8837.	1.6	13
48	Developing strong and tough carbon nanotube films by a proper dispersing strategy and enhanced interfacial interactions. <i>Carbon</i> , 2019, 149, 117-124.	5.4	13
49	Genuine divalent magnesium-ion storage and fast diffusion kinetics in metal oxides at room temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
50	Ultrathin Two-Dimensional Nanostructures: Surface Defects for Morphology-Driven Enhanced Semiconductor SERS. <i>Angewandte Chemie</i> , 2021, 133, 5565-5571.	1.6	11
51	Silica Aerogels with Self-Reinforced Microstructure for Bioinspired Hydrogels. <i>Langmuir</i> , 2021, 37, 5923-5931.	1.6	10
52	PtNiFe nanoalloys with co-existence of energy-optimized active surfaces for synergistic catalysis of oxygen reduction and evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16187-16195.	5.2	9
53	Electrokinetic effect and H <sub>2</sub> O <sub>2</sub> boosting in synthetic graphene/±-FeOOH aerogel films for the generation of electricity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5588-5596.	5.2	9
54	Fluorine interaction with defects on graphite surface by a first-principles study. <i>Applied Surface Science</i> , 2014, 292, 488-493.	3.1	8

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55	Bio-inspired synthesis of highly crystallized hexagonal boron nitride nanosheets. <i>Ceramics International</i> , 2018, 44, 14228-14235.	2.3	8
56	A Dopant Replacement-Driven Molten Salt Method toward the Synthesis of Sub-5-nm-Sized Ultrathin Nanowires. <i>Small</i> , 2020, 16, 2001098.	5.2	8
57	Effect of dispersion time on the microstructural and mechanical properties of carbon nanotube solutions and their spun fibers. <i>Composites Communications</i> , 2021, 27, 100872.	3.3	7
58	On-Demand Preparation of $\lambda$ -Phase-Dominated Tungsten Films for Highly Qualified Thermal Reflectors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900031.	1.9	6
59	Horizontally aligned surface segments enhancing the adhesion of carbon nanotube forests. <i>Carbon</i> , 2021, 176, 540-547.	5.4	6
60	Symmetry-breaking triggered by atomic tungsten for largely enhanced piezoelectric response in hexagonal boron nitride. <i>Nano Energy</i> , 2022, 99, 107375.	8.2	6
61	Molecular dynamics study on radial deformation of armchair single-walled boron nitride nanotubes. <i>Applied Physics Express</i> , 2017, 10, 105001.	1.1	5
62	Strain-controlled interface engineering of binding and charge doping at metal-graphene contacts. <i>Applied Physics Letters</i> , 2013, 103, 143107.	1.5	4
63	Joining cross-stacked carbon nanotube architecture with covalent bonding. <i>Applied Physics Letters</i> , 2017, 110, 183101.	1.5	4
64	Theoretical study on the interaction between graphene divacancies and C <sub>2</sub> H <sub>2</sub> . <i>Chemical Physics Letters</i> , 2013, 567, 43-47.	1.2	3
65	Molecular dynamics study on the generation and propagation of heat signals in single-wall carbon nanotubes. <i>RSC Advances</i> , 2013, 3, 12855.	1.7	2
66	Electrocatalysis: Kinetic Enhancement of Sulfur Cathodes by N-Doped Porous Graphitic Carbon with Bound VN Nanocrystals ( <i>Small</i> 48/2020). <i>Small</i> , 2020, 16, 2070261.	5.2	2
67	High-Capacity Iron-Based Anodes for Aqueous Secondary Nickel-Iron Batteries: Recent Progress and Prospects. <i>ChemElectroChem</i> , 2021, 8, 273-273.	1.7	2
68	Influence of self-consistent screening and polarizability contractions on interlayer sliding behavior of hexagonal boron nitride. <i>Physical Review B</i> , 2017, 96, .	1.1	1
69	Molecular Dynamics Simulation of Damage to Coiled Carbon Nanotubes under C Ion Irradiation. <i>Chinese Physics Letters</i> , 2013, 30, 113402.	1.3	0