

# Biao Kong

## List of Publications by Year in Descending Order

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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.

94  
papers

4,419  
citations

34  
h-index

65  
g-index

107  
ext. papers

5,429  
ext. citations

11.6  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
94	Kinetics-Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	4
93	Super-assembly of freestanding graphene oxide-aramid fiber membrane with T-mode subnanochannels for sensitive ion transport.. <i>Analyst, The</i> , <b>2022</b> ,	5	2
92	Kinetics-Controlled Super-Assembly of Asymmetric Porous and Hollow Carbon Nanoparticles as Light-Sensitive Smart Nanovehicles.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	15
91	Interfacial assembly of functional mesoporous nanomatrices for laser desorption/ionization mass spectrometry. <i>Nano Today</i> , <b>2022</b> , 42, 101365	17.9	1
90	Interfacial Superassembly of Mesoporous Titania Nanopillar-Arrays/Alumina Oxide Heterochannels for Light- and pH-Responsive Smart Ion Transport.. <i>ACS Central Science</i> , <b>2022</b> , 8, 361-369	16.8	2
89	Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation.. <i>Chemistry - A European Journal</i> , <b>2022</b> , e202200307	4.8	0
88	Superassembly of Surface-Enriched Ru Nanoclusters from Trapping-Bonding Strategy for Efficient Hydrogen Evolution.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	4
87	Super-Assembled Hierarchical and Stable N-Doped Carbon Nanotube Nanoarrays for Dendrite-Free Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 815-824	6.1	3
86	Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation.. <i>Chemistry - A European Journal</i> , <b>2022</b> , 28, e202201278	4.8	
85	Interfacial Assembly of Nanowire Arrays toward Carbonaceous Mesoporous Nanorods and Superstructures. <i>Small</i> , <b>2021</b> , 18, e2104477	11	1
84	Super-assembled silica nanoprobcs for intracellular Zn(II) sensing and reperfusion injury treatment through MOF crystallization. <i>Analyst, The</i> , <b>2021</b> , 146, 6788-6797	5	0
83	Core-Shell Structured Micro-Nanomotors: Construction, Shell Functionalization, Applications, and Perspectives. <i>Small</i> , <b>2021</b> , e2102887	11	7
82	Interfacial Super-Assembly of Ordered Mesoporous Carbon-Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperature- and pH-Sensitive Smart Ion Transport. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26167-26176	16.4	15
81	Super-Assembled Periodic Mesoporous Organosilica Frameworks for Real-Time Hypoxia-Triggered Drug Release and Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50246-50257	9.5	0
80	Laser Cladding Induced Spherical Graphitic Phases by Super-Assembly of Graphene-Like Microstructures and the Antifriction Behavior. <i>ACS Central Science</i> , <b>2021</b> , 7, 318-326	16.8	1
79	Interfacially Super-Assembled Asymmetric and H2O2 Sensitive Multilayer-Sandwich Magnetic Mesoporous Silica Nanomotors for Detecting and Removing Heavy Metal Ions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010694	15.6	18
78	Interfacial Super-Assembly of T-Mode Janus Porous Heterochannels from Layered Graphene and Aluminum Oxide Array for Smart Oriented Ion Transportation. <i>Small</i> , <b>2021</b> , 17, e2100141	11	8

77	Superassembled Red Phosphorus Nanorod-Reduced Graphene Oxide Microflowers as High-Performance Lithium-Ion Battery Anodes. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2001507	3.5	3
76	Recent Advances in Heterosilica-Based Micro/Nanomotors: Designs, Biomedical Applications, and Future Perspectives. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3022-3046	9.6	12
75	Ligand-Mediated Spatially Controllable Superassembly of Asymmetric Hollow Nanotadpoles with Fine-Tunable Cavity as Smart HO-Sensitive Nanoswimmers. <i>ACS Nano</i> , <b>2021</b> ,	16.7	13
74	Sequential Superassembly of Nanofiber Arrays to Carbonaceous Ordered Mesoporous Nanowires and Their Heterostructure Membranes for Osmotic Energy Conversion. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 6922-6932	16.4	15
73	Super-Assembled Hierarchical CoO Nanosheets-Cu Foam Composites as Multi-Level Hosts for High-Performance Lithium Metal Anodes. <i>Small</i> , <b>2021</b> , 17, e2101301	11	15
72	pH-Gated Activation of Gene Transcription and Translation in Biocatalytic Metal-Organic Framework Artificial Cells. <i>Advanced NanoBiomed Research</i> , <b>2021</b> , 1, 2000034	0	5
71	Toxicity of different zinc oxide nanomaterials and dose-dependent onset and development of Parkinson's disease-like symptoms induced by zinc oxide nanorods. <i>Environment International</i> , <b>2021</b> , 146, 106179	12.9	27
70	Electrospinning Superassembled Mesoporous AlEgen-Organosilica Frameworks Featuring Diversified Forms and Superstability for Wearable and Washable Solid-State Fluorescence Smart Sensors. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2367-2376	7.8	9
69	Carbon-based SERS biosensor: from substrate design to sensing and bioapplication. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	44
68	Implantable and Biodegradable Micro-Supercapacitor Based on a Superassembled Three-Dimensional Network Zn@PPy Hybrid Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 8285-8293	9.5	36
67	Interfacial Super-Assembly of Ordered Mesoporous Silica-Alumina Heterostructure Membranes with pH-Sensitive Properties for Osmotic Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 8782-8793	9.5	16
66	Wood-Derived Bimetallic and Heteroatomic Hierarchically Porous Carbon Aerogel for Rechargeable Flow Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 39458-39469	9.5	1
65	Interfacial Super-Assembly of Nanofluidic Heterochannels from Layered Graphene and Alumina Oxide Arrays for Label-Free Histamine-Specific Detection. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2982-2987	7.8	8
64	Interfacially Super-Assembled Benzimidazole Derivative-Based Mesoporous Silica Nanoprobe for Sensitive Copper (II) Detection and Biosensing in Living Cells. <i>Chemistry - A European Journal</i> , <b>2021</b> ,	4.8	2
63	Super-assembled core/shell fibrous frameworks with dual growth factors for in situ cementum-ligament-bone complex regeneration. <i>Biomaterials Science</i> , <b>2020</b> , 8, 2459-2471	7.4	6
62	Interfacial Superassembly of Grape-Like MnO-Ni@C Frameworks for Superior Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13770-13780	9.5	36
61	Mesoporous Silica Materials: Interfacial Assembly of Mesoporous Silica-Based Optical Heterostructures for Sensing Applications (Adv. Funct. Mater. 9/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070057	15.6	5
60	Superassembly of Porous Fetet(NiFe)octO Frameworks with Stable Octahedron and Multistage Structure for Superior Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904262	21.8	34

59	Super-assembled core-shell mesoporous silica-metal-phenolic network nanoparticles for combinatorial photothermal therapy and chemotherapy. <i>Nano Research</i> , <b>2020</b> , 13, 1013-1019	10	35
58	Nanobiohybrids: Materials approaches for bioaugmentation. <i>Science Advances</i> , <b>2020</b> , 6, eaaz0330	14.3	55
57	Interfacial Assembly of Mesoporous Silica-Based Optical Heterostructures for Sensing Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906950	15.6	33
56	Förster resonance energy transfer (FRET) paired carbon dot-based complex nanoprobe: versatile platforms for sensing and imaging applications. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 128-139	7.8	31
55	Biocatalytic metal-organic framework nanomotors for active water decontamination. <i>Chemical Communications</i> , <b>2020</b> , 56, 14837-14840	5.8	13
54	Metal-Organic Framework-Plant Nanobiohybrids as Living Sensors for On-Site Environmental Pollutant Detection. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 11356-11364	10.3	24
53	Artificial Blood Vessel Frameworks from 3D Printing-Based Super-Assembly as In Vitro Models for Early Diagnosis of Intracranial Aneurysms. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3188-3198	9.6	5
52	One-dimensional CoS-MoS nano-flakes decorated MoO sub-micro-wires for synergistically enhanced hydrogen evolution. <i>Nanoscale</i> , <b>2019</b> , 11, 3500-3505	7.7	23
51	Liquid-Solid Interfacial Assemblies of Soft Materials for Functional Freestanding Layered Membrane-Based Devices toward Electrochemical Energy Systems. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1804005	21.8	12
50	Amidoxime-Functionalized Macroporous Carbon Self-Refreshed Electrode Materials for Rapid and High-Capacity Removal of Heavy Metal from Water. <i>ACS Central Science</i> , <b>2019</b> , 5, 719-726	16.8	47
49	Superassembled Biocatalytic Porous Framework Micromotors with Reversible and Sensitive pH-Speed Regulation at Ultralow Physiological H <sub>2</sub> O <sub>2</sub> Concentration. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808900	15.6	48
48	A Tough Metal-Coordinated Elastomer: A Fatigue-Resistant, Notch-Insensitive Material with an Excellent Self-Healing Capacity. <i>ChemPlusChem</i> , <b>2019</b> , 84, 432-440	2.8	11
47	Zn-O Dual-Spin Surface State Formation by Modification of ZnO Nanoparticles with Diboron Compounds. <i>Langmuir</i> , <b>2019</b> , 35, 14173-14179	4	5
46	Interfacial Super-Assembled Porous CeO <sub>2</sub> /C Frameworks Featuring Efficient and Sensitive Decomposing Li <sub>2</sub> O <sub>2</sub> for Smart Li <sub>2</sub> O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901751	21.8	53
45	Li <sub>2</sub> O <sub>2</sub> Batteries: Interfacial Super-Assembled Porous CeO <sub>2</sub> /C Frameworks Featuring Efficient and Sensitive Decomposing Li <sub>2</sub> O <sub>2</sub> for Smart Li <sub>2</sub> O <sub>2</sub> Batteries (Adv. Energy Mater. 40/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970157	21.8	2
44	Mesoporous TiO/TiC@C Composite Membranes with Stable TiO-C Interface for Robust Lithium Storage. <i>IScience</i> , <b>2018</b> , 3, 149-160	6.1	36
43	CoFe <sub>2</sub> O <sub>4</sub> Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSM-5 Catalysts. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802088	15.6	10
42	A vesicle-aggregation-assembly approach to highly ordered mesoporous alumina microspheres with shifted double-diamond networks. <i>Chemical Science</i> , <b>2018</b> , 9, 7705-7714	9.4	14

41	Selective Electrochemical H <sub>2</sub> O <sub>2</sub> Production through Two-Electron Oxygen Electrochemistry. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801909	21.8	263
40	Interfacial tissue engineering of heart regenerative medicine based on soft cell-porous scaffolds. <i>Journal of Thoracic Disease</i> , <b>2018</b> , 10, S2333-S2345	2.6	13
39	Core-Shell Nanofibrous Materials with High Particulate Matter Removal Efficiencies and Thermally Triggered Flame Retardant Properties. <i>ACS Central Science</i> , <b>2018</b> , 4, 894-898	16.8	44
38	Nanoscale zero-valent iron in mesoporous carbon (nZVI@C): stable nanoparticles for metal extraction and catalysis. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4478-4485	13	46
37	Electrospun core-shell microfiber separator with thermal-triggered flame-retardant properties for lithium-ion batteries. <i>Science Advances</i> , <b>2017</b> , 3, e1601978	14.3	164
36	Discovery of intrinsic quantum anomalous Hall effect in organic Mn-DCA lattice. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 233107	3.4	52
35	Graphene oxide/core-shell structured metal-organic framework nano-sandwiches and their derived cobalt/N-doped carbon nanosheets for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10182-10189	13	128
34	Constructing Three-Dimensional Mesoporous Bouquet-Posey-like TiO <sub>2</sub> Superstructures with Radially Oriented Mesochannels and Single-Crystal Walls. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 517-526	16.4	53
33	Implantable and Biodegradable Macroporous Iron Oxide Frameworks for Efficient Regeneration and Repair of Infarcted Heart. <i>Theranostics</i> , <b>2017</b> , 7, 1966-1975	12.1	15
32	Low-crystalline mesoporous CoFe <sub>2</sub> O <sub>4</sub> /C composite with oxygen vacancies for high energy density asymmetric supercapacitors. <i>RSC Advances</i> , <b>2017</b> , 7, 55513-55522	3.7	41
31	Stitching h-BN by atomic layer deposition of LiF as a stable interface for lithium metal anode. <i>Science Advances</i> , <b>2017</b> , 3, eaao3170	14.3	191
30	Flexible and Stretchable Energy Storage: Recent Advances and Future Perspectives. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603436	24	725
29	A Micelle Fusion-Aggregation Assembly Approach to Mesoporous Carbon Materials with Rich Active Sites for Ultrasensitive Ammonia Sensing. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12586-95	16.4	116
28	Analysis of Serum Metabolites to Diagnose Bicuspid Aortic Valve. <i>Scientific Reports</i> , <b>2016</b> , 6, 37023	4.9	3
27	Three-dimensional WS <sub>2</sub> nanosheet networks for H <sub>2</sub> O <sub>2</sub> produced for cell signaling. <i>Nanoscale</i> , <b>2016</b> , 8, 5786-92	7.7	18
26	Incorporation of well-dispersed sub-5-nm graphitic pencil nanodots into ordered mesoporous frameworks. <i>Nature Chemistry</i> , <b>2016</b> , 8, 171-8	17.6	128
25	Direct Superassemblies of Freestanding Metal-Carbon Frameworks Featuring Reversible Crystalline-Phase Transformation for Electrochemical Sodium Storage. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16533-16541	16.4	97
24	Branched artificial nanofinger arrays by mesoporous interfacial atomic rearrangement. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4260-6	16.4	29

23	New faces of porous Prussian blue: interfacial assembly of integrated hetero-structures for sensing applications. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 7997-8018	58.5	183
22	Mesoporous Fe <sub>2</sub> O <sub>3</sub> -CdS Heterostructures for Real-Time Photoelectrochemical Dynamic Probing of Cu(2+). <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6703-8	7.8	54
21	Sub-5 nm porous nanocrystals: interfacial site-directed growth on graphene for efficient biocatalysis. <i>Chemical Science</i> , <b>2015</b> , 6, 4029-4034	9.4	18
20	Interfacial assembly of mesoporous nanopyramids as ultrasensitive cellular interfaces featuring efficient direct electrochemistry. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e204-e204	10.3	12
19	Freestanding 3D graphene/cobalt sulfide composites for supercapacitors and hydrogen evolution reaction. <i>RSC Advances</i> , <b>2015</b> , 5, 6886-6891	3.7	43
18	Growth of Single-Layered Two-Dimensional Mesoporous Polymer/Carbon Films by Self-Assembly of Monomicelles at the Interfaces of Various Substrates. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8545-8549	3.6	14
17	Growth of Single-Layered Two-Dimensional Mesoporous Polymer/Carbon Films by Self-Assembly of Monomicelles at the Interfaces of Various Substrates. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8425-9	16.4	37
16	Monodisperse core-shell structured magnetic mesoporous aluminosilicate nanospheres with large dendritic mesochannels. <i>Nano Research</i> , <b>2015</b> , 8, 2503-2514	10	70
15	R&Ktitelbild: Growth of Single-Layered Two-Dimensional Mesoporous Polymer/Carbon Films by Self-Assembly of Monomicelles at the Interfaces of Various Substrates (Angew. Chem. 29/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8686-8686	3.6	
14	Ultralight mesoporous magnetic frameworks by interfacial assembly of Prussian blue nanocubes. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2888-92	16.4	73
13	Artificial metabolism-inspired photoelectrochemical probing of biomolecules and cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15752-15757	13	9
12	Reduced Mesoporous Co <sub>3</sub> O <sub>4</sub> Nanowires as Efficient Water Oxidation Electrocatalysts and Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400696	21.8	650
11	Hierarchically tetramodal-porous zeolite ZSM-5 monoliths with template-free-derived intracrystalline mesopores. <i>Chemical Science</i> , <b>2014</b> , 5, 1565	9.4	83
10	Oriented mesoporous nanopyramids as versatile plasmon-enhanced interfaces. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6822-5	16.4	58
9	Ultralight Mesoporous Magnetic Frameworks by Interfacial Assembly of Prussian Blue Nanocubes. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2932-2936	3.6	1
8	Bio-inspired porous antenna-like nanocube/nanowire heterostructure as ultra-sensitive cellular interfaces. <i>NPG Asia Materials</i> , <b>2014</b> , 6, e117-e117	10.3	30
7	Dual-Pore Mesoporous Carbon@Silica Composite Core-Shell Nanospheres for Multidrug Delivery. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5470-5474	3.6	44
6	Simple and Green Synthesis of Nitrogen-Doped Photoluminescent Carbonaceous Nanospheres for Bioimaging. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8309-8313	3.6	41

5	Interfacial Assembly of Functional Mesoporous Carbon-Based Materials into Films for Batteries and Electrocatalysis. <i>Advanced Materials Interfaces</i> ,2101998	4.6	4
4	Interfacial Super-Assembly of Ordered Mesoporous Carbon-Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperature- and pH-Regulated Smart Ion Transport. <i>Angewandte Chemie</i> ,	3.6	4
3	Super-assembled sandwich-like Au@MSN@Ag nanomatrices for high-throughput and efficient detection of small biomolecules. <i>Nano Research</i> ,1	10	3
2	Frontier luminous strategy of functional silica nanohybrids in sensing and bioimaging: From ACQ to AIE. <i>Aggregate</i> ,e121	22.9	1
1	Super-Assembled Hierarchical Cellulose Aerogel-Gelatin Solid Electrolyte for Implantable and Biodegradable Zinc Ion Battery. <i>Advanced Functional Materials</i> ,2111406	15.6	6