# Biao Kong

List of Publications by Year
in descending order



| 98 | 6,694 | 42 | 80 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| | | 66234 | 62479 |

| 107 | 107 | 107 | 10415 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Flexible and Stretchable Energy Storage: Recent Advances and Future Perspectives. Advanced Materials, 2017, 29, 1603436. | 11.1 | 872 |
| 2 | Reduced Mesoporous Co<sub>3</sub>O<sub>4</sub> Nanowires as Efficient Water Oxidation Electrocatalysts and Supercapacitor Electrodes. Advanced Energy Materials, 2014, 4, 1400696. | 10.2 | 852 |
| 3 | Selective Electrochemical H<sub>2</sub>O<sub>2</sub> Production through Twoâ€Electron Oxygen Electrochemistry. Advanced Energy Materials, 2018, 8, 1801909. | 10.2 | 498 |
| 4 | Stitching h-BN by atomic layer deposition of LiF as a stable interface for lithium metal anode. Science Advances, 2017, 3, eaao3170. | 4.7 | 252 |
| 5 | Electrospun core-shell microfiber separator with thermal-triggered flame-retardant properties for lithium-ion batteries. Science Advances, 2017, 3, e1601978. | 4.7 | 245 |
| 6 | New faces of porous Prussian blue: interfacial assembly of integrated hetero-structures for sensing applications. Chemical Society Reviews, 2015, 44, 7997-8018. | 18.7 | 240 |
| 7 | Graphene oxide/coreâ€"shell structured metalâ€"organic framework nano-sandwiches and their derived cobalt/N-doped carbon nanosheets for oxygen reduction reactions. Journal of Materials Chemistry A, 2017, 5, 10182-10189. | 5.2 | 163 |
| 8 | Incorporation of well-dispersed sub-5-nm graphitic pencil nanodots into ordered mesoporous frameworks. Nature Chemistry, 2016, 8, 171-178. | 6.6 | 153 |
| 9 | A Micelle Fusionâ€"Aggregation Assembly Approach to Mesoporous Carbon Materials with Rich Active Sites for Ultrasensitive Ammonia Sensing. Journal of the American Chemical Society, 2016, 138, 12586-12595. | 6.6 | 152 |
| 10 | Carbon-based SERS biosensor: from substrate design to sensing and bioapplication. NPG Asia Materials, 2021, 13, . | 3.8 | 143 |
| 11 | Direct Superassemblies of Freestanding Metalâ€"Carbon Frameworks Featuring Reversible Crystalline-Phase Transformation for Electrochemical Sodium Storage. Journal of the American Chemical Society, 2016, 138, 16533-16541. | 6.6 | 120 |
| 12 | Hierarchically tetramodal-porous zeolite ZSM-5 monoliths with template-free-derived intracrystalline mesopores. Chemical Science, 2014, 5, 1565. | 3.7 | 98 |
| 13 | Nanobiohybrids: Materials approaches for bioaugmentation. Science Advances, 2020, 6, eaaz0330. | 4.7 | 93 |
| 14 | Implantable and Biodegradable Micro-Supercapacitor Based on a Superassembled Three-Dimensional Network Zn@PPy Hybrid Electrode. ACS Applied Materials & Interfaces, 2021, 13, 8285-8293. | 4.0 | 92 |
| 15 | Monodisperse core-shell structured magnetic mesoporous aluminosilicate nanospheres with large dendritic mesochannels. Nano Research, 2015, 8, 2503-2514. | 5.8 | 84 |
| 16 | Ultralight Mesoporous Magnetic Frameworks by Interfacial Assembly of Prussian Blue Nanocubes. Angewandte Chemie - International Edition, 2014, 53, 2888-2892. | 7.2 | 78 |
| 17 | Constructing Three-Dimensional Mesoporous Bouquet-Posy-like TiO<sub>2</sub> Superstructures with Radially Oriented Mesochannels and Single-Crystal Walls. Journal of the American Chemical Society, 2017, 139, 517-526. | 6.6 | 76 |
| 18 | Amidoxime-Functionalized Macroporous Carbon Self-Refreshed Electrode Materials for Rapid and High-Capacity Removal of Heavy Metal from Water. ACS Central Science, 2019, 5, 719-726. | 5.3 | 76 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Coreâ€“Shell Nanofibrous Materials with High Particulate Matter Removal Efficiencies and Thermally Triggered Flame Retardant Properties. ACS Central Science, 2018, 4, 894-898. | 5.3 | 73 |
| 20 | Interfacial Superâ€Assembled Porous CeO<sub>2</sub>/C Frameworks Featuring Efficient and Sensitive Decomposing Li<sub>2</sub>O<sub>2</sub> for Smart Liâ€“O<sub>2</sub> Batteries. Advanced Energy Materials, 2019, 9, 1901751. | 10.2 | 71 |
| 21 | Super-assembled core-shell mesoporous silica-metal-phenolic network nanoparticles for combinatorial photothermal therapy and chemotherapy. Nano Research, 2020, 13, 1013-1019. | 5.8 | 69 |
| 22 | Toxicity of different zinc oxide nanomaterials and dose-dependent onset and development of Parkinsonâ€™s disease-like symptoms induced by zinc oxide nanorods. Environment International, 2021, 146, 106179. | 4.8 | 67 |
| 23 | Superassembled Biocatalytic Porous Framework Micromotors with Reversible and Sensitive pHâ€Speed Regulation at Ultralow Physiological H<sub>2</sub>O<sub>2</sub> Concentration. Advanced Functional Materials, 2019, 29, 1808900. | 7.8 | 66 |
| 24 | Kinetics-Controlled Super-Assembly of Asymmetric Porous and Hollow Carbon Nanoparticles as Light-Sensitive Smart Nanovehicles. Journal of the American Chemical Society, 2022, 144, 1634-1646. | 6.6 | 64 |
| 25 | Oriented Mesoporous Nanopyramids as Versatile Plasmon-Enhanced Interfaces. Journal of the American Chemical Society, 2014, 136, 6822-6825. | 6.6 | 62 |
| 26 | Nanoscale zero-valent iron in mesoporous carbon (nZVI@C): stable nanoparticles for metal extraction and catalysis. Journal of Materials Chemistry A, 2017, 5, 4478-4485. | 5.2 | 62 |
| 27 | Interfacial Assembly of Mesoporous Silicaâ€Based Optical Heterostructures for Sensing Applications. Advanced Functional Materials, 2020, 30, 1906950. | 7.8 | 62 |
| 28 | Mesoporous Fe<sub>2</sub>O<sub>3</sub>â€“CdS Heterostructures for Real-Time Photoelectrochemical Dynamic Probing of Cu<sup>2+</sup>. Analytical Chemistry, 2015, 87, 6703-6708. | 3.2 | 61 |
| 29 | Discovery of intrinsic quantum anomalous Hall effect in organic Mn-DCA lattice. Applied Physics Letters, 2017, 110, . | 1.5 | 61 |
| 30 | FÃ¶rster resonance energy transfer (FRET) paired carbon dot-based complex nanoprobes: versatile platforms for sensing and imaging applications. Materials Chemistry Frontiers, 2020, 4, 128-139. | 3.2 | 61 |
| 31 | Sequential Superassembly of Nanofiber Arrays to Carbonaceous Ordered Mesoporous Nanowires and Their Heterostructure Membranes for Osmotic Energy Conversion. Journal of the American Chemical Society, 2021, 143, 6922-6932. | 6.6 | 61 |
| 32 | Interfacial Superâ€Assembly of Ordered Mesoporous Carbonâ€Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperatureâ€•and pHâ€Sensitive Smart Ion Transport. Angewandte Chemie - International Edition, 2021, 60, 26167-26176. | 7.2 | 58 |
| 33 | Low-crystalline mesoporous CoFe<sub>2</sub>O<sub>4</sub>/C composite with oxygen vacancies for high energy density asymmetric supercapacitors. RSC Advances, 2017, 7, 55513-55522. | 1.7 | 55 |
| 34 | Superassembly of Porous Fe<sub>tet</sub>(NiFe)<sub>oct</sub>O Frameworks with Stable Octahedron and Multistage Structure for Superior Lithiumâ€“Oxygen Batteries. Advanced Energy Materials, 2020, 10, 1904262. | 10.2 | 55 |
| 35 | Superassembly of Surface-Enriched Ru Nanoclusters from Trappingâ€“Bonding Strategy for Efficient Hydrogen Evolution. ACS Nano, 2022, 16, 7993-8004. | 7.3 | 54 |
| 36 | Interfacially Superâ€Assembled Asymmetric and H<sub>2</sub>O<sub>2</sub> Sensitive Multilayerâ€Sandwich Magnetic Mesoporous Silica Nanomotors for Detecting and Removing Heavy Metal Ions. Advanced Functional Materials, 2021, 31, 2010694. | 7.8 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Superâ€Assembled Hierarchical Cellulose Aerogelâ€Gelatin Solid Electrolyte for Implantable and Biodegradable Zinc Ion Battery. Advanced Functional Materials, 2022, 32, . | 7.8 | 48 |
| 38 | Freestanding 3D graphene/cobalt sulfide composites for supercapacitors and hydrogen evolution reaction. RSC Advances, 2015, 5, 6886-6891. | 1.7 | 47 |
| 39 | Growth of Singleâ€Layered Twoâ€Dimensional Mesoporous Polymer/Carbon Films by Selfâ€Assembly of Monomicelles at the Interfaces of Various Substrates. Angewandte Chemie - International Edition, 2015, 54, 8425-8429. | 7.2 | 45 |
| 40 | Mesoporous TiO2/TiC@C Composite Membranes with Stable TiO2-C Interface for Robust Lithium Storage. IScience, 2018, 3, 149-160. | 1.9 | 45 |
| 41 | Interfacial Superassembly of Grape-Like MnOâ€“Ni@C Frameworks for Superior Lithium Storage. ACS Applied Materials & Interfaces, 2020, 12, 13770-13780. | 4.0 | 45 |
| 42 | Interfacial Super-Assembly of Ordered Mesoporous Silicaâ€“Alumina Heterostructure Membranes with pH-Sensitive Properties for Osmotic Energy Harvesting. ACS Applied Materials & Interfaces, 2021, 13, 8782-8793. | 4.0 | 44 |
| 43 | Metalâ€“Organic Frameworkâ€“Plant Nanobiohybrids as Living Sensors for On-Site Environmental Pollutant Detection. Environmental Science & Technology, 2020, 54, 11356-11364. | 4.6 | 42 |
| 44 | Wood-Derived Bimetallic and Heteroatomic Hierarchically Porous Carbon Aerogel for Rechargeable Flow Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 39458-39469. | 4.0 | 38 |
| 45 | Biocatalytic metalâ€“organic framework nanomotors for active water decontamination. Chemical Communications, 2020, 56, 14837-14840. | 2.2 | 34 |
| 46 | Bio-inspired porous antenna-like nanocube/nanowire heterostructure as ultra-sensitive cellular interfaces. NPG Asia Materials, 2014, 6, e117-e117. | 3.8 | 33 |
| 47 | Superâ€Assembled Hierarchical CoO Nanosheetsâ€Cu Foam Composites as Multiâ€Level Hosts for Highâ€Performance Lithium Metal Anodes. Small, 2021, 17, e2101301. | 5.2 | 33 |
| 48 | One-dimensional CoS<sub>2</sub>â€“MoS<sub>2</sub> nano-flakes decorated MoO<sub>2</sub> sub-micro-wires for synergistically enhanced hydrogen evolution. Nanoscale, 2019, 11, 3500-3505. | 2.8 | 31 |
| 49 | Branched Artificial Nanofinger Arrays by Mesoporous Interfacial Atomic Rearrangement. Journal of the American Chemical Society, 2015, 137, 4260-4266. | 6.6 | 30 |
| 50 | Interfacial Superâ€Assembly of Tâ€Mode Janus Porous Heterochannels from Layered Graphene and Aluminum Oxide Array for Smart Oriented Ion Transportation. Small, 2021, 17, e2100141. | 5.2 | 30 |
| 51 | Recent Advances in Heterosilica-Based Micro/Nanomotors: Designs, Biomedical Applications, and Future Perspectives. Chemistry of Materials, 2021, 33, 3022-3046. | 3.2 | 30 |
| 52 | General Synergistic Capture-Bonding Superassembly of Atomically Dispersed Catalysts on Micropore-Vacancy Frameworks. Nano Letters, 2022, 22, 2889-2897. | 4.5 | 27 |
| 53 | Frontier luminous strategy of functional silica nanohybrids in sensing and bioimaging: From ACQ to AIE. Aggregate, 2022, 3, e121. | 5.2 | 26 |
| 54 | Soft Patch Interface-Oriented Superassembly of Complex Hollow Nanoarchitectures for Smart Dual-Responsive Nanospacecrafts. Journal of the American Chemical Society, 2022, 144, 7778-7789. | 6.6 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Ligand-Mediated Spatially Controllable Superassembly of Asymmetric Hollow Nanotadpoles with Fine-Tunable Cavity as Smart H<sub>2</sub>O<sub>2</sub>-Sensitive Nanoswimmers. ACS Nano, 2021, 15, 11451-11460. | 7.3 | 24 |
| 56 | Three-dimensional WS<sub>2</sub>nanosheet networks for H<sub>2</sub>O<sub>2</sub>produced for cell signaling. Nanoscale, 2016, 8, 5786-5792. | 2.8 | 23 |
| 57 | Electrospinning Superassembled Mesoporous AIEgenâ€“Organosilica Frameworks Featuring Diversified Forms and Superstability for Wearable and Washable Solid-State Fluorescence Smart Sensors. Analytical Chemistry, 2021, 93, 2367-2376. | 3.2 | 23 |
| 58 | Super-Assembled Chiral Mesostructured Heteromembranes for Smart and Sensitive Couple-Accelerated Enantioseparation. Journal of the American Chemical Society, 2022, 144, 13794-13805. | 6.6 | 22 |
| 59 | Super-assembled core/shell fibrous frameworks with dual growth factors for <i>in situ</i> cementumâ€“ligamentâ€“bone complex regeneration. Biomaterials Science, 2020, 8, 2459-2471. | 2.6 | 21 |
| 60 | A vesicle-aggregation-assembly approach to highly ordered mesoporous Î³-alumina microspheres with shifted double-diamond networks. Chemical Science, 2018, 9, 7705-7714. | 3.7 | 20 |
| 61 | Interfacial Super-Assembly of Nanofluidic Heterochannels from Layered Graphene and Alumina Oxide Arrays for Label-Free Histamine-Specific Detection. Analytical Chemistry, 2021, 93, 2982-2987. | 3.2 | 20 |
| 62 | Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 20 |
| 63 | Sub-5 nm porous nanocrystals: interfacial site-directed growth on graphene for efficient biocatalysis. Chemical Science, 2015, 6, 4029-4034. | 3.7 | 18 |
| 64 | Interfacial tissue engineering of heart regenerative medicine based on soft cell-porous scaffolds. Journal of Thoracic Disease, 2018, 10, S2333-S2345. | 0.6 | 18 |
| 65 | Liquidâ€“Solid Interfacial Assemblies of Soft Materials for Functional Freestanding Layered Membraneâ€“Based Devices toward Electrochemical Energy Systems. Advanced Energy Materials, 2019, 9, 1804005. | 10.2 | 18 |
| 66 | A Tough Metalâ€Coordinated Elastomer: A Fatigueâ€Resistant, Notchâ€Insensitive Material with an Excellent Selfâ€Healing Capacity. ChemPlusChem, 2019, 84, 432-440. | 1.3 | 18 |
| 67 | Implantable and Biodegradable Macroporous Iron Oxide Frameworks for Efficient Regeneration and Repair of Infracted Heart. Theranostics, 2017, 7, 1966-1975. | 4.6 | 17 |
| 68 | Coreâ€Shell Structured Microâ€Nanomotors: Construction, Shell Functionalization, Applications, and Perspectives. Small, 2022, 18, e2102887. | 5.2 | 16 |
| 69 | CoFe<sub>2</sub>O<sub>4</sub> Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSMâ€5 Catalysts. Advanced Functional Materials, 2018, 28, 1802088. | 7.8 | 15 |
| 70 | Interfacial assembly of mesoporous nanopyramids as ultrasensitive cellular interfaces featuring efficient direct electrochemistry. NPG Asia Materials, 2015, 7, e204-e204. | 3.8 | 14 |
| 71 | Super-assembled sandwich-like Au@MSN@Ag nanomatrices for high-throughput and efficient detection of small biomolecules. Nano Research, 2022, 15, 2722-2733. | 5.8 | 14 |
| 72 | Interfacial Superassembly of Mesoporous Titania Nanopillar-Arrays/Alumina Oxide Heterochannels for Light- and pH-Responsive Smart Ion Transport. ACS Central Science, 2022, 8, 361-369. | 5.3 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Interfacial Superassembly of Light-Responsive Mechanism-Switchable Nanomotors with Tunable Mobility and Directionality. ACS Applied Materials & Interfaces, 2022, 14, 15517-15528. | 4.0 | 14 |
| 74 | Interfacial Assembly of Functional Mesoporous Carbonâ€Based Materials into Films for Batteries and Electrocatalysis. Advanced Materials Interfaces, 2022, 9, . | 1.9 | 13 |
| 75 | Interfacial Superâ€Assembly of Ordered Mesoporous Carbonâ€Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperatureâ€•and pHâ€Sensitive Smart Ion Transport. Angewandte Chemie, 2021, 133, 26371-26380. | 1.6 | 12 |
| 76 | Artificial metabolism-inspired photoelectrochemical probing of biomolecules and cells. Journal of Materials Chemistry A, 2014, 2, 15752-15757. | 5.2 | 11 |
| 77 | pHâ€Gated Activation of Gene Transcription and Translation in Biocatalytic Metalâ€"Organic Framework Artificial Cells. Advanced NanoBiomed Research, 2021, 1, 2000034. | 1.7 | 11 |
| 78 | Super-Assembled Periodic Mesoporous Organosilica Frameworks for Real-Time Hypoxia-Triggered Drug Release and Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 50246-50257. | 4.0 | 11 |
| 79 | Super-Assembled Hierarchical and Stable N-Doped Carbon Nanotube Nanoarrays for Dendrite-Free Lithium Metal Batteries. ACS Applied Energy Materials, 2022, 5, 815-824. | 2.5 | 11 |
| 80 | Mesoporous Silica Materials: Interfacial Assembly of Mesoporous Silicaâ€Based Optical Heterostructures for Sensing Applications (Adv. Funct. Mater. 9/2020). Advanced Functional Materials, 2020, 30, 2070057. | 7.8 | 10 |
| 81 | Superassembled Red Phosphorus Nanorodâ€"Reduced Graphene Oxide Microflowers as Highâ€Performance Lithiumâ€Ion Battery Anodes. Advanced Engineering Materials, 2021, 23, 2001507. | 1.6 | 10 |
| 82 | Interfacially Super-Assembled Tyramine-Modified Mesoporous Silica-Alumina Oxide Heterochannels for Label-Free Tyrosinase Detection. Analytical Chemistry, 2022, 94, 2589-2596. | 3.2 | 10 |
| 83 | Artificial Blood Vessel Frameworks from 3D Printing-Based Super-Assembly as <i>In Vitro</i> Models for Early Diagnosis of Intracranial Aneurysms. Chemistry of Materials, 2020, 32, 3188-3198. | 3.2 | 8 |
| 84 | Laser Cladding Induced Spherical Graphitic Phases by Super-Assembly of Graphene-Like Microstructures and the Antifriction Behavior. ACS Central Science, 2021, 7, 318-326. | 5.3 | 8 |
| 85 | Interfacial assembly of functional mesoporous nanomatrices for laser desorption/ionization mass spectrometry. Nano Today, 2022, 42, 101365. | 6.2 | 8 |
| 86 | Super-assembly of freestanding graphene oxide-aramid fiber membrane with T-mode subnanochannels for sensitive ion transport. Analyst, The, 2022, 147, 652-660. | 1.7 | 8 |
| 87 | Interfacial Assembly of Nanowire Arrays toward Carbonaceous Mesoporous Nanorods and Superstructures. Small, 2022, 18, e2104477. | 5.2 | 7 |
| 88 | Analysis of Serum Metabolites to Diagnose Bicuspid Aortic Valve. Scientific Reports, 2016, 6, 37023. | 1.6 | 6 |
| 89 | Zn<sup>+</sup>â€"O<sup>â€"</sup> Dual-Spin Surface State Formation by Modification of ZnO Nanoparticles with Diboron Compounds. Langmuir, 2019, 35, 14173-14179. | 1.6 | 5 |
| 90 | Super-assembled silica nanoprobes for intracellular Zn(<scp>ii</scp>) sensing and reperfusion injury treatment through <i>in situ</i> MOF crystallization. Analyst, The, 2021, 146, 6788-6797. | 1.7 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Interfacially Superâ€Assembled Benzimidazole Derivativeâ€Based Mesoporous Silica Nanoprobe for Sensitive Copper (II) Detection and Biosensing in Living Cells. Chemistry - A European Journal, 2022, 28, . | 1.7 | 5 |
| 92 | Patient-Derived Organoid Model in the Prediction of Chemotherapeutic Drug Response in Colorectal Cancer. ACS Biomaterials Science and Engineering, 2022, 8, 3515-3525. | 2.6 | 3 |
| 93 | Liâ€"O<sub>2</sub> Batteries: Interfacial Superâ€Assembled Porous CeO<sub>2</sub>/C Frameworks Featuring Efficient and Sensitive Decomposing Li<sub>2</sub>O<sub>2</sub> for Smart Liâ€"O<sub>2</sub> Batteries (Adv. Energy Mater. 40/2019). Advanced Energy Materials, 2019, 9, 1970157. | 10.2 | 2 |
| 94 | Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation. Chemistry - A European Journal, 2022, 28, e202200307. | 1.7 | 2 |
| 95 | Superassembled Hierarchical Asymmetric Magnetic Mesoporous Nanorobots Driven by Smart Confined Catalytic Degradation. Chemistry - A European Journal, 2022, 28, e202201278. | 1.7 | 2 |
| 96 | RÃ¼cktitelbild: 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). Angewandte Chemie, 2015, 127, 8686-8686. | 1.6 | 0 |
| 97 | Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures. Angewandte Chemie, 0, , . | 1.6 | 0 |
| 98 | InnenrÃ¼cktitelbild: Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures (Angew. Chem. 12/2022). Angewandte Chemie, 2022, 134, . | 1.6 | 0 |