Jing Tang

List of Publications by Year
in descending order

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111 papers	14,664 citations	19657 61 h-index	18647 119 g-index
130 all docs	130 docs citations	130 times ranked	19552 citing authors

#	Article	IF	Citations
1	Thermal Conversion of Coreâ€“Shell Metalâ€“Organic Frameworks: A New Method for Selectively Functionalized Nanoporous Hybrid Carbon. Journal of the American Chemical Society, 2015, 137, 1572-1580.	13.7	1,307
2	Nanoarchitectonics for Transitionâ€Metalâ€Sulfideâ€Based Electrocatalysts for Water Splitting. Advanced Materials, 2019, 31, e1807134.	21.0	998
3	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metalâ€“Organic Framework. ACS Nano, 2015, 9, 6288-6296.	14.6	890
4	Reduced Mesoporous Co₃O₄ Nanowires as Efficient Water Oxidation Electrocatalysts and Supercapacitor Electrodes. Advanced Energy Materials, 2014, 4, 1400696.	19.5	852
5	Composite mesostructures by nano-confinement. Nature Materials, 2004, 3, 816-822.	27.5	626
6	Carbon Nanodots Featuring Efficient FRET for Realâ€Time Monitoring of Drug Delivery and Twoâ€Photon Imaging. Advanced Materials, 2013, 25, 6569-6574.	21.0	494
7	MOF morphologies in control. Nature Chemistry, 2016, 8, 638-639.	13.6	426
8	Elaborately assembled core-shell structured metal sulfides as a bifunctional catalyst for highly efficient electrochemical overall water splitting. Nano Energy, 2018, 47, 494-502.	16.0	383
9	Synthesis of Nitrogenâ€Doped Mesoporous Carbon Spheres with Extraâ€Large Pores through Assembly of Diblock Copolymer Micelles. Angewandte Chemie - International Edition, 2015, 54, 588-593.	13.8	380
10	Nanoparticle Superlattices as Efficient Bifunctional Electrocatalysts for Water Splitting. Journal of the American Chemical Society, 2015, 137, 14305-14312.	13.7	377
11	Magnetite Fe3O4Nanocrystals:Â Spectroscopic Observation of Aqueous Oxidation Kineticsâ€. Journal of Physical Chemistry B, 2003, 107, 7501-7506.	2.6	344
12	Tailored design of functional nanoporous carbon materials toward fuel cell applications. Nano Today, 2014, 9, 305-323.	11.9	254
13	Interlaced NiS₂â€“MoS₂ nanoflake-nanowires as efficient hydrogen evolution electrocatalysts in basic solutions. Journal of Materials Chemistry A, 2016, 4, 13439-13443.	10.3	241
14	Ultrahigh performance supercapacitors utilizing coreâ€“shell nanoarchitectures from a metalâ€“organic framework-derived nanoporous carbon and a conducting polymer. Chemical Science, 2016, 7, 5704-5713.	7.4	236
15	Photoelectrochemical Detection of Glutathione by IrO₂â€“Heminâ€“TiO₂ Nanowire Arrays. Nano Letters, 2013, 13, 5350-5354.	9.1	214
16	Zeolitic imidazolate framework (ZIF-8) derived nanoporous carbon: the effect of carbonization temperature on the supercapacitor performance in an aqueous electrolyte. Physical Chemistry Chemical Physics, 2016, 18, 29308-29315.	2.8	213
17	Templated Synthesis of Highly Ordered Mesostructured Nanowires and Nanowire Arrays. Nano Letters, 2004, 4, 2337-2342.	9.1	205
18	Direct/Alternating Current Electrochemical Method for Removing and Recovering Heavy Metal from Water Using Graphene Oxide Electrode. ACS Nano, 2019, 13, 6431-6437.	14.6	181

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19	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. Matter, 2020, 3, 2124-2137.	10.0	177
20	A tissue-like neurotransmitter sensor for the brain and gut. Nature, 2022, 606, 94-101.	27.8	162
21	Polymeric Micelle Assembly for the Smart Synthesis of Mesoporous Platinum Nanospheres with Tunable Pore Sizes. Angewandte Chemie - International Edition, 2015, 54, 11073-11077.	13.8	160
22	Remediation of heavy metal contaminated soil by asymmetrical alternating current electrochemistry. Nature Communications, 2019, 10, 2440.	12.8	156
23	Incorporation of well-dispersed sub-5-nm graphitic pencil nanodots into ordered mesoporous frameworks. Nature Chemistry, 2016, 8, 171-178.	13.6	153
24	Simultaneous Etching and Doping of TiO₂ Nanowire Arrays for Enhanced Photoelectrochemical Performance. ACS Nano, 2013, 7, 9375-9383.	14.6	152
25	An Organometallic Synthesis of TiO2Nanoparticles. Nano Letters, 2005, 5, 543-548.	9.1	140
26	Solid-Solution Nanoparticles:Â Use of a Nonhydrolytic Solâ^'Gel Synthesis To Prepare HfO2and HfxZr1-xO2Nanocrystals. Chemistry of Materials, 2004, 16, 1336-1342.	6.7	139
27	Sensitive enzymatic glucose detection by TiO₂nanowire photoelectrochemical biosensors. Journal of Materials Chemistry A, 2014, 2, 6153-6157.	10.3	139
28	Surface-engineered mesoporous silicon microparticles as high-Coulombic-efficiency anodes for lithium-ion batteries. Nano Energy, 2019, 61, 404-410.	16.0	134
29	Solar-Driven Photoelectrochemical Probing of Nanodot/Nanowire/Cell Interface. Nano Letters, 2014, 14, 2702-2708.	9.1	132
30	Highly fluorescent copper nanoclusters for sensing and bioimaging. Biosensors and Bioelectronics, 2020, 154, 112078.	10.1	130
31	MOF nanoleaves as new sacrificial templates for the fabrication of nanoporous Coâ€“N_x/C electrocatalysts for oxygen reduction. Nanoscale Horizons, 2019, 4, 1006-1013.	8.0	124
32	Tunableâ€Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. Angewandte Chemie - International Edition, 2016, 55, 10037-10041.	13.8	122
33	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.	13.7	120
34	MnO Nanoparticle@Mesoporous Carbon Composites Grown on Conducting Substrates Featuring High-performance Lithium-ion Battery, Supercapacitor and Sensor. Scientific Reports, 2013, 3, 2693.	3.3	117
35	Highâ€Loading Nanoâ€SnO₂ Encapsulated in situ in Threeâ€Dimensional Rigid Porous Carbon for Superior Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2016, 22, 4915-4923.	3.3	109
36	Photoelectrochemical Conversion from Graphitic C₃N₄ Quantum Dot Decorated Semiconductor Nanowires. ACS Applied Materials & Interfaces, 2016, 8, 12772-12779.	8.0	103

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37	Nuclearâ€Targeted Multifunctional Magnetic Nanoparticles for Photothermal Therapy. Advanced Healthcare Materials, 2017, 6, 1601289.	7.6	103
38	A flexible ligand-based wavy layered metalâ€“organic framework for lithium-ion storage. Journal of Colloid and Interface Science, 2015, 445, 320-325.	9.4	102
39	Cage-Type Highly Graphitic Porous Carbonâ€“Co₃O₄ Polyhedron as the Cathode of Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2796-2804.	8.0	102
40	Highly active nonprecious metal hydrogen evolution electrocatalyst: ultrafine molybdenum carbide nanoparticles embedded into a 3D nitrogen-implanted carbon matrix. NPG Asia Materials, 2016, 8, e293-e293.	7.9	100
41	Surface Plasmon Resonance Enhanced Real-Time Photoelectrochemical Protein Sensing by Gold Nanoparticle-Decorated TiO₂ Nanowires. Analytical Chemistry, 2014, 86, 6633-6639.	6.5	92
42	Nanowire arrays restore vision in blind mice. Nature Communications, 2018, 9, 786.	12.8	89
43	Nitrogen-doped hollow carbon spheres with large mesoporous shells engineered from diblock copolymer micelles. Chemical Communications, 2016, 52, 505-508.	4.1	87
44	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. Nature Communications, 2021, 12, 6122.	12.8	86
45	Gasâ^'Liquidâ^'Solid Phase Transition Model for Two-Dimensional Nanocrystal Self-Assembly on Graphite. Journal of Physical Chemistry B, 2002, 106, 5653-5658.	2.6	85
46	Simvastatin induced ferroptosis for triple-negative breast cancer therapy. Journal of Nanobiotechnology, 2021, 19, 311.	9.1	80
47	Coloured low-emissivity films for building envelopes for year-round energy savings. Nature Sustainability, 2022, 5, 339-347.	23.7	80
48	Ultralight Mesoporous Magnetic Frameworks by Interfacial Assembly of Prussian Blue Nanocubes. Angewandte Chemie - International Edition, 2014, 53, 2888-2892.	13.8	78
49	Hierarchical Porous Nickel Cobaltate Nanoneedle Arrays as Flexible Carbon-Protected Cathodes for High-Performance Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2016, 8, 8427-8435.	8.0	77
50	A Synergistic System for Lithiumâ€“Oxygen Batteries in Humid Atmosphere Integrating a Composite Cathode and a Hydrophobic Ionic Liquidâ€Based Electrolyte. Advanced Functional Materials, 2016, 26, 3291-3298.	14.9	76
51	A nickel cobaltate nanoparticle-decorated hierarchical porous N-doped carbon nanofiber film as a binder-free self-supported cathode for nonaqueous Liâ€“O₂batteries. Journal of Materials Chemistry A, 2016, 4, 9106-9112.	10.3	72
52	Origin of enhanced water oxidation activity in an iridium single atom anchored on NiFe oxyhydroxide catalyst. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	71
53	Two novel metalâ€“organic frameworks based on pyridyl-imidazole-carboxyl multifunctional ligand: selective CO₂ capture and multiresponsive luminescence sensor. Dalton Transactions, 2019, 48, 10892-10900.	3.3	70
54	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. Nano Energy, 2016, 28, 232-240.	16.0	67

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55	Magnetic drug carrier with a smart pH-responsive polymer network shell for controlled delivery of doxorubicin. Journal of Materials Chemistry, 2012, 22, 15206.	6.7	65
56	Doxorubicinâ€Conjugated Mesoporous Magnetic Colloidal Nanocrystal Clusters Stabilized by Polysaccharide as a Smart Anticancer Drug Vehicle. Small, 2012, 8, 2690-2697.	10.0	64
57	Fully Solar-Powered Photoelectrochemical Conversion for Simultaneous Energy Storage and Chemical Sensing. Nano Letters, 2014, 14, 3668-3673.	9.1	64
58	Threeâ€Dimensional Nitrogenâ€Doped Hierarchical Porous Carbon as an Electrode for Highâ€Performance Supercapacitors. Chemistry - A European Journal, 2015, 21, 17293-17298.	3.3	63
59	Oriented Mesoporous Nanopyramids as Versatile Plasmon-Enhanced Interfaces. Journal of the American Chemical Society, 2014, 136, 6822-6825.	13.7	62
60	Mesoporous Fe₂O₃â€“CdS Heterostructures for Real-Time Photoelectrochemical Dynamic Probing of Cu²⁺. Analytical Chemistry, 2015, 87, 6703-6708.	6.5	61
61	A Highly Energetic Nâ€Rich Metalâ€“Organic Framework as a New Highâ€Energyâ€Density Material. Chemistry - A European Journal, 2016, 22, 1141-1145.	3.3	58
62	Enhanced Mesostructural Order and Changes to Optical and Electrochemical Properties Induced by the Addition of Cerium(III) to Mesoporous Titania Thin Films. Chemistry of Materials, 2004, 16, 3524-3532.	6.7	52
63	Single-atom catalysts boost nitrogen electroreduction reaction. Materials Today, 2020, 38, 99-113.	14.2	52
64	Recent advances in metalâ€“organic frameworks for pesticide detection and adsorption. Dalton Transactions, 2020, 49, 14361-14372.	3.3	52
65	Improving hindlimb locomotor function by Non-invasive AAV-mediated manipulations of propriospinal neurons in mice with complete spinal cord injury. Nature Communications, 2021, 12, 781.	12.8	50
66	Freestanding 3D graphene/cobalt sulfide composites for supercapacitors and hydrogen evolution reaction. RSC Advances, 2015, 5, 6886-6891.	3.6	47
67	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.	13.8	45
68	Selfâ€Templateâ€Directed Metalâ€“Organic Frameworks Network and the Derived Honeycombâ€Like Carbon Flakes via Confinement Pyrolysis. Small, 2018, 14, e1704461.	10.0	44
69	Defect self-assembly of metal-organic framework triggers ferroptosis to overcome resistance. Bioactive Materials, 2023, 19, 1-11.	15.6	44
70	Solarâ€Energyâ€Driven Photoelectrochemical Biosensing Using TiO₂ Nanowires. Chemistry - A European Journal, 2015, 21, 11288-11299.	3.3	42
71	Designing hierarchical nanoporous membranes for highly efficient gas adsorption and storage. Science Advances, 2020, 6, .	10.3	41
72	Dihydroartemisinin-Loaded Magnetic Nanoparticles for Enhanced Chemodynamic Therapy. Frontiers in Pharmacology, 2020, 11, 226.	3.5	38

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73	Hollow carbon nanospheres using an asymmetric triblock copolymer structure directing agent. Chemical Communications, 2017, 53, 236-239.	4.1	37
74	Revealing Molecular Mechanisms in Hierarchical Nanoporous Carbon via Nuclear Magnetic Resonance. Matter, 2020, 3, 2093-2107.	10.0	34
75	Towards Vaporized Molecular Discrimination: A Quartz Crystal Microbalance (QCM) Sensor System Using Cobaltâ€Containing Mesoporous Graphitic Carbon. Chemistry - an Asian Journal, 2014, 9, 3238-3244.	3.3	33
76	Bio-inspired porous antenna-like nanocube/nanowire heterostructure as ultra-sensitive cellular interfaces. NPG Asia Materials, 2014, 6, e117-e117.	7.9	33
77	Strategic synthesis of mesoporous Pt-on-Pd bimetallic spheres templated from a polymeric micelle assembly. Journal of Materials Chemistry A, 2016, 4, 9169-9176.	10.3	32
78	Biomimetic Mesoporous Silica Nanoparticles for Enhanced Blood Circulation and Cancer Therapy. ACS Applied Bio Materials, 2020, 3, 7849-7857.	4.6	32
79	One-dimensional CoS₂â€“MoS₂ nano-flakes decorated MoO₂ sub-micro-wires for synergistically enhanced hydrogen evolution. Nanoscale, 2019, 11, 3500-3505.	5.6	31
80	Branched Artificial Nanofinger Arrays by Mesoporous Interfacial Atomic Rearrangement. Journal of the American Chemical Society, 2015, 137, 4260-4266.	13.7	30
81	Four Novel Lanthanide(III) Metalâ€“Organic Frameworks: Tunable Light Emission and Multiresponsive Luminescence Sensors for Vitamin B₆ and Pesticides. Crystal Growth and Design, 2021, 21, 2889-2897.	3.0	30
82	Direct growth of mesoporous carbon-coated Ni nanoparticles on carbon fibers for flexible supercapacitors. Journal of Materials Chemistry A, 2015, 3, 2876-2882.	10.3	28
83	Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. IScience, 2020, 23, 100761.	4.1	26
84	Hollowâ€Core Magnetic Colloidal Nanocrystal Clusters with Ligandâ€Exchanged Surface Modification as Delivery Vehicles for Targeted and Stimuliâ€Responsive Drug Release. Chemistry - A European Journal, 2012, 18, 16517-16524.	3.3	23
85	Three-dimensional WS₂nanosheet networks for H₂O₂produced for cell signaling. Nanoscale, 2016, 8, 5786-5792.	5.6	23
86	Selfâ€Supported ZIFâ€Derived Co₃O₄ Nanoparticlesâ€Decorated Porous Nâ€Doped Carbon Fibers as Oxygen Reduction Catalyst. Chemistry - A European Journal, 2019, 25, 6807-6813.	3.3	23
87	The role of commensal microflora-induced T cell responses in glaucoma neurodegeneration. Progress in Brain Research, 2020, 256, 79-97.	1.4	21
88	CoNiO2/TiNâ€“TiOxNy composites for ultrahigh electrochemical energy storage and simultaneous glucose sensing. Journal of Materials Chemistry A, 2014, 2, 10904.	10.3	19
89	Reversible Chemical Tuning of Charge Carriers for Enhanced Photoelectrochemical Conversion and Probing of Living Cells. Small, 2014, 10, 4967-4974.	10.0	18
90	Sub-5 nm porous nanocrystals: interfacial site-directed growth on graphene for efficient biocatalysis. Chemical Science, 2015, 6, 4029-4034.	7.4	18

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91	Implantable and Biodegradable Macroporous Iron Oxide Frameworks for Efficient Regeneration and Repair of Infracted Heart. Theranostics, 2017, 7, 1966-1975.	10.0	17
92	Single-atom iron catalysts for biomedical applications. Progress in Materials Science, 2022, 128, 100959.	32.8	17
93	A turn-on luminescent probe for Fe³⁺and ascorbic acid with logic gate operation based on a zinc(<scp>ii</scp>)-based metalâ€“organic framework. New Journal of Chemistry, 2020, 44, 8728-8735.	2.8	16
94	Interfacial assembly of mesoporous nanopyramids as ultrasensitive cellular interfaces featuring efficient direct electrochemistry. NPG Asia Materials, 2015, 7, e204-e204.	7.9	14
95	Tunableâ€Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. Angewandte Chemie, 2016, 128, 10191-10195.	2.0	14
96	Aqueous Li-ion cells with superior cycling performance using multi-channeled polyaniline/Fe₂O₃ nanotube anodes. Journal of Materials Chemistry A, 2014, 2, 20177-20181.	10.3	12
97	Ordered Hexagonal Mesoporous Aluminosilicates and their Application in Ligandâ€Free Synthesis of Secondary Amines. ChemCatChem, 2015, 7, 747-751.	3.7	12
98	Mesoporous carbon coated molybdenum oxide nanobelts for improved lithium ion storage. RSC Advances, 2014, 4, 29586-29590.	3.6	11
99	Artificial metabolism-inspired photoelectrochemical probing of biomolecules and cells. Journal of Materials Chemistry A, 2014, 2, 15752-15757.	10.3	11
100	A water-stable zinc(<scp>ii</scp>)â€“organic framework as an â€œonâ€“offâ€“onâ€•fluorescent sensor for detection of Fe³⁺and reduced glutathione. CrystEngComm, 2021, 23, 1243-1250.	2.6	10
101	The Synthesis of Hollow/Porous Cu₂O Nanoparticles by Ion-Pairing Behavior Control. ACS Omega, 2020, 5, 1879-1886.	3.5	8
102	Baicaleinâ€”A Potent Pro-Homeostatic Regulator of Microglia in Retinal Ischemic Injury. Frontiers in Immunology, 2022, 13, 837497.	4.8	8
103	â€œHighwayâ€•Toward Efficient Water Oxidation. Matter, 2021, 4, 21-22.	10.0	7
104	One-Step Bulk Preparation of Calcium Carbonate Nanotubes and Its Application in Anticancer Drug Delivery. Biological Trace Element Research, 2012, 147, 408-417.	3.5	5
105	Plasmon-enhanced photoelectrochemical monitoring of Ca2+ from living cardiomyocytes. Journal of Electroanalytical Chemistry, 2015, 759, 14-20.	3.8	5
106	A novel copper(<scp>i</scp>) metalâ€“organic framework as a highly efficient and ultrasensitive electrochemical platform for detection of Hg(<scp>ii</scp>) ions in aqueous solution. CrystEngComm, 2021, 23, 3043-3051.	2.6	5
107	Mesoporous Spheres: Multimetallic Mesoporous Spheres Through Surfactant-Directed Synthesis (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	11.2	1
108	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.	2.0	0

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109	A Non-volatile View of Site-Specific Adsorption and Dynamics of VOCs and CO2. Matter, 2020, 3, 1823-1824.	10.0	0
110	Engineered Dissolution for Better Electrocatalysts. CheM, 2021, 7, 20-22.	11.7	0
111	Silicon nanowire synthesis by chemical vapor deposition. Scientia Sinica Chimica, 2013, 43, 1730-1735.	0.4	0