

# Jing Tang

## List of Publications by Year in descending order

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111  
papers

14,664  
citations

19608

61  
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18606

119  
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130  
all docs

130  
docs citations

130  
times ranked

19552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Conversion of Core-Shell Metal-Organic Frameworks: A New Method for Selectively Functionalized Nanoporous Hybrid Carbon. <i>Journal of the American Chemical Society</i> , 2015, 137, 1572-1580.	6.6	1,307
2	Nanoarchitectonics for Transition-Metal-Sulfide-Based Electrocatalysts for Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1807134.	11.1	998
3	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metal-Organic Framework. <i>ACS Nano</i> , 2015, 9, 6288-6296.	7.3	890
4	Reduced Mesoporous Co <sub>3</sub> O <sub>4</sub> Nanowires as Efficient Water Oxidation Electrocatalysts and Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1400696.	10.2	852
5	Composite mesostructures by nano-confinement. <i>Nature Materials</i> , 2004, 3, 816-822.	13.3	626
6	Carbon Nanodots Featuring Efficient FRET for Real-Time Monitoring of Drug Delivery and Two-Photon Imaging. <i>Advanced Materials</i> , 2013, 25, 6569-6574.	11.1	494
7	MOF morphologies in control. <i>Nature Chemistry</i> , 2016, 8, 638-639.	6.6	426
8	Elaborately assembled core-shell structured metal sulfides as a bifunctional catalyst for highly efficient electrochemical overall water splitting. <i>Nano Energy</i> , 2018, 47, 494-502.	8.2	383
9	Synthesis of Nitrogen-Doped Mesoporous Carbon Spheres with Extra-Large Pores through Assembly of Diblock Copolymer Micelles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 588-593.	7.2	380
10	Nanoparticle Superlattices as Efficient Bifunctional Electrocatalysts for Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 14305-14312.	6.6	377
11	Magnetite Fe <sub>3</sub> O <sub>4</sub> Nanocrystals: A Spectroscopic Observation of Aqueous Oxidation Kinetics. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7501-7506.	1.2	344
12	Tailored design of functional nanoporous carbon materials toward fuel cell applications. <i>Nano Today</i> , 2014, 9, 305-323.	6.2	254
13	Interlaced NiS <sub>2</sub> -MoS <sub>2</sub> nanoflake-nanowires as efficient hydrogen evolution electrocatalysts in basic solutions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13439-13443.	5.2	241
14	Ultrahigh performance supercapacitors utilizing core-shell nanoarchitectures from a metal-organic framework-derived nanoporous carbon and a conducting polymer. <i>Chemical Science</i> , 2016, 7, 5704-5713.	3.7	236
15	Photoelectrochemical Detection of Glutathione by IrO <sub>2</sub> -Hemin-TiO <sub>2</sub> Nanowire Arrays. <i>Nano Letters</i> , 2013, 13, 5350-5354.	4.5	214
16	Zeolitic imidazolate framework (ZIF-8) derived nanoporous carbon: the effect of carbonization temperature on the supercapacitor performance in an aqueous electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29308-29315.	1.3	213
17	Templated Synthesis of Highly Ordered Mesostructured Nanowires and Nanowire Arrays. <i>Nano Letters</i> , 2004, 4, 2337-2342.	4.5	205
18	Direct/Alternating Current Electrochemical Method for Removing and Recovering Heavy Metal from Water Using Graphene Oxide Electrode. <i>ACS Nano</i> , 2019, 13, 6431-6437.	7.3	181

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19	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , 2020, 3, 2124-2137.	5.0	177
20	A tissue-like neurotransmitter sensor for the brain and gut. <i>Nature</i> , 2022, 606, 94-101.	13.7	162
21	Polymeric Micelle Assembly for the Smart Synthesis of Mesoporous Platinum Nanospheres with Tunable Pore Sizes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11073-11077.	7.2	160
22	Remediation of heavy metal contaminated soil by asymmetrical alternating current electrochemistry. <i>Nature Communications</i> , 2019, 10, 2440.	5.8	156
23	Incorporation of well-dispersed sub-5-nm graphitic pencil nanodots into ordered mesoporous frameworks. <i>Nature Chemistry</i> , 2016, 8, 171-178.	6.6	153
24	Simultaneous Etching and Doping of TiO <sub>2</sub> Nanowire Arrays for Enhanced Photoelectrochemical Performance. <i>ACS Nano</i> , 2013, 7, 9375-9383.	7.3	152
25	An Organometallic Synthesis of TiO <sub>2</sub> Nanoparticles. <i>Nano Letters</i> , 2005, 5, 543-548.	4.5	140
26	Solid-Solution Nanoparticles: Use of a Nonhydrolytic Sol-Gel Synthesis To Prepare HfO <sub>2</sub> and Hf <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> Nanocrystals. <i>Chemistry of Materials</i> , 2004, 16, 1336-1342.	3.2	139
27	Sensitive enzymatic glucose detection by TiO <sub>2</sub> nanowire photoelectrochemical biosensors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6153-6157.	5.2	139
28	Surface-engineered mesoporous silicon microparticles as high-Coulombic-efficiency anodes for lithium-ion batteries. <i>Nano Energy</i> , 2019, 61, 404-410.	8.2	134
29	Solar-Driven Photoelectrochemical Probing of Nanodot/Nanowire/Cell Interface. <i>Nano Letters</i> , 2014, 14, 2702-2708.	4.5	132
30	Highly fluorescent copper nanoclusters for sensing and bioimaging. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112078.	5.3	130
31	MOF nanoleaves as new sacrificial templates for the fabrication of nanoporous Co <sub>x</sub> /C electrocatalysts for oxygen reduction. <i>Nanoscale Horizons</i> , 2019, 4, 1006-1013.	4.1	124
32	Tunable Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10037-10041.	7.2	122
33	Direct Superassemblies of Freestanding Metal-Carbon Frameworks Featuring Reversible Crystalline-Phase Transformation for Electrochemical Sodium Storage. <i>Journal of the American Chemical Society</i> , 2016, 138, 16533-16541.	6.6	120
34	MnO Nanoparticle@Mesoporous Carbon Composites Grown on Conducting Substrates Featuring High-performance Lithium-ion Battery, Supercapacitor and Sensor. <i>Scientific Reports</i> , 2013, 3, 2693.	1.6	117
35	High Loading Nano SnO <sub>2</sub> Encapsulated in situ in Three Dimensional Rigid Porous Carbon for Superior Lithium-ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 4915-4923.	1.7	109
36	Photoelectrochemical Conversion from Graphitic C <sub>3</sub> N <sub>4</sub> Quantum Dot Decorated Semiconductor Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 12772-12779.	4.0	103

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37	Nuclear-Targeted Multifunctional Magnetic Nanoparticles for Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601289.	3.9	103
38	A flexible ligand-based wavy layered metal-organic framework for lithium-ion storage. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 320-325.	5.0	102
39	Cage-Type Highly Graphitic Porous Carbon-Co <sub>3</sub> O <sub>4</sub> Polyhedron as the Cathode of Lithium-Oxygen Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2796-2804.	4.0	102
40	Highly active nonprecious metal hydrogen evolution electrocatalyst: ultrafine molybdenum carbide nanoparticles embedded into a 3D nitrogen-implanted carbon matrix. <i>NPG Asia Materials</i> , 2016, 8, e293-e293.	3.8	100
41	Surface Plasmon Resonance Enhanced Real-Time Photoelectrochemical Protein Sensing by Gold Nanoparticle-Decorated TiO <sub>2</sub> Nanowires. <i>Analytical Chemistry</i> , 2014, 86, 6633-6639.	3.2	92
42	Nanowire arrays restore vision in blind mice. <i>Nature Communications</i> , 2018, 9, 786.	5.8	89
43	Nitrogen-doped hollow carbon spheres with large mesoporous shells engineered from diblock copolymer micelles. <i>Chemical Communications</i> , 2016, 52, 505-508.	2.2	87
44	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , 2021, 12, 6122.	5.8	86
45	Gas-Liquid-Solid Phase Transition Model for Two-Dimensional Nanocrystal Self-Assembly on Graphite. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5653-5658.	1.2	85
46	Simvastatin induced ferroptosis for triple-negative breast cancer therapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 311.	4.2	80
47	Coloured low-emissivity films for building envelopes for year-round energy savings. <i>Nature Sustainability</i> , 2022, 5, 339-347.	11.5	80
48	Ultralight Mesoporous Magnetic Frameworks by Interfacial Assembly of Prussian Blue Nanocubes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2888-2892.	7.2	78
49	Hierarchical Porous Nickel Cobaltate Nanoneedle Arrays as Flexible Carbon-Protected Cathodes for High-Performance Lithium-Oxygen Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8427-8435.	4.0	77
50	A Synergistic System for Lithium-Oxygen Batteries in Humid Atmosphere Integrating a Composite Cathode and a Hydrophobic Ionic Liquid-Based Electrolyte. <i>Advanced Functional Materials</i> , 2016, 26, 3291-3298.	7.8	76
51	A nickel cobaltate nanoparticle-decorated hierarchical porous N-doped carbon nanofiber film as a binder-free self-supported cathode for nonaqueous Li <sub>2</sub> O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9106-9112.	5.2	72
52	Origin of enhanced water oxidation activity in an iridium single atom anchored on NiFe oxyhydroxide catalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	71
53	Two novel metal-organic frameworks based on pyridyl-imidazole-carboxyl multifunctional ligand: selective CO <sub>2</sub> capture and multiresponsive luminescence sensor. <i>Dalton Transactions</i> , 2019, 48, 10892-10900.	1.6	70
54	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. <i>Nano Energy</i> , 2016, 28, 232-240.	8.2	67

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55	Magnetic drug carrier with a smart pH-responsive polymer network shell for controlled delivery of doxorubicin. <i>Journal of Materials Chemistry</i> , 2012, 22, 15206.	6.7	65
56	Doxorubicin- $\alpha$ -Conjugated Mesoporous Magnetic Colloidal Nanocrystal Clusters Stabilized by Polysaccharide as a Smart Anticancer Drug Vehicle. <i>Small</i> , 2012, 8, 2690-2697.	5.2	64
57	Fully Solar-Powered Photoelectrochemical Conversion for Simultaneous Energy Storage and Chemical Sensing. <i>Nano Letters</i> , 2014, 14, 3668-3673.	4.5	64
58	Three-Dimensional Nitrogen-Doped Hierarchical Porous Carbon as an Electrode for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2015, 21, 17293-17298.	1.7	63
59	Oriented Mesoporous Nanopyramids as Versatile Plasmon-Enhanced Interfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 6822-6825.	6.6	62
60	Mesoporous Fe <sub>2</sub> O <sub>3</sub> -CdS Heterostructures for Real-Time Photoelectrochemical Dynamic Probing of Cu <sup>2+</sup> . <i>Analytical Chemistry</i> , 2015, 87, 6703-6708.	3.2	61
61	A Highly Energetic Ni-Rich Metal-Organic Framework as a New High-Energy-Density Material. <i>Chemistry - A European Journal</i> , 2016, 22, 1141-1145.	1.7	58
62	Enhanced Mesostructural Order and Changes to Optical and Electrochemical Properties Induced by the Addition of Cerium(III) to Mesoporous Titania Thin Films. <i>Chemistry of Materials</i> , 2004, 16, 3524-3532.	3.2	52
63	Single-atom catalysts boost nitrogen electroreduction reaction. <i>Materials Today</i> , 2020, 38, 99-113.	8.3	52
64	Recent advances in metal-organic frameworks for pesticide detection and adsorption. <i>Dalton Transactions</i> , 2020, 49, 14361-14372.	1.6	52
65	Improving hindlimb locomotor function by Non-invasive AAV-mediated manipulations of propriospinal neurons in mice with complete spinal cord injury. <i>Nature Communications</i> , 2021, 12, 781.	5.8	50
66	Freestanding 3D graphene/cobalt sulfide composites for supercapacitors and hydrogen evolution reaction. <i>RSC Advances</i> , 2015, 5, 6886-6891.	1.7	47
67	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> , 2015, 54, 8425-8429.	7.2	45
68	Self-Template-Directed Metal-Organic Frameworks Network and the Derived Honeycomb-Like Carbon Flakes via Confinement Pyrolysis. <i>Small</i> , 2018, 14, e1704461.	5.2	44
69	Defect self-assembly of metal-organic framework triggers ferroptosis to overcome resistance. <i>Bioactive Materials</i> , 2023, 19, 1-11.	8.6	44
70	Solar-Energy-Driven Photoelectrochemical Biosensing Using TiO <sub>2</sub> Nanowires. <i>Chemistry - A European Journal</i> , 2015, 21, 11288-11299.	1.7	42
71	Designing hierarchical nanoporous membranes for highly efficient gas adsorption and storage. <i>Science Advances</i> , 2020, 6, .	4.7	41
72	Dihydroartemisinin-Loaded Magnetic Nanoparticles for Enhanced Chemodynamic Therapy. <i>Frontiers in Pharmacology</i> , 2020, 11, 226.	1.6	38

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73	Hollow carbon nanospheres using an asymmetric triblock copolymer structure directing agent. <i>Chemical Communications</i> , 2017, 53, 236-239.	2.2	37
74	Revealing Molecular Mechanisms in Hierarchical Nanoporous Carbon via Nuclear Magnetic Resonance. <i>Matter</i> , 2020, 3, 2093-2107.	5.0	34
75	Towards Vaporized Molecular Discrimination: A Quartz Crystal Microbalance (QCM) Sensor System Using Cobalt-Containing Mesoporous Graphitic Carbon. <i>Chemistry - an Asian Journal</i> , 2014, 9, 3238-3244.	1.7	33
76	Bio-inspired porous antenna-like nanocube/nanowire heterostructure as ultra-sensitive cellular interfaces. <i>NPG Asia Materials</i> , 2014, 6, e117-e117.	3.8	33
77	Strategic synthesis of mesoporous Pt-on-Pd bimetallic spheres templated from a polymeric micelle assembly. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9169-9176.	5.2	32
78	Biomimetic Mesoporous Silica Nanoparticles for Enhanced Blood Circulation and Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 7849-7857.	2.3	32
79	One-dimensional CoS <sub>2</sub> –MoS <sub>2</sub> nano-flakes decorated MoO <sub>2</sub> sub-micro-wires for synergistically enhanced hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 3500-3505.	2.8	31
80	Branched Artificial Nanofinger Arrays by Mesoporous Interfacial Atomic Rearrangement. <i>Journal of the American Chemical Society</i> , 2015, 137, 4260-4266.	6.6	30
81	Four Novel Lanthanide(III) Metal-Organic Frameworks: Tunable Light Emission and Multiresponsive Luminescence Sensors for Vitamin B <sub>6</sub> and Pesticides. <i>Crystal Growth and Design</i> , 2021, 21, 2889-2897.	1.4	30
82	Direct growth of mesoporous carbon-coated Ni nanoparticles on carbon fibers for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2876-2882.	5.2	28
83	Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. <i>IScience</i> , 2020, 23, 100761.	1.9	26
84	Hollow-Core Magnetic Colloidal Nanocrystal Clusters with Ligand-Exchanged Surface Modification as Delivery Vehicles for Targeted and Stimuli-Responsive Drug Release. <i>Chemistry - A European Journal</i> , 2012, 18, 16517-16524.	1.7	23
85	Three-dimensional WS <sub>2</sub> nanosheet networks for H <sub>2</sub> O <sub>2</sub> produced for cell signaling. <i>Nanoscale</i> , 2016, 8, 5786-5792.	2.8	23
86	Self-Supported ZIF-Derived Co <sub>3</sub> O <sub>4</sub> Nanoparticles-Decorated Porous N-Doped Carbon Fibers as Oxygen Reduction Catalyst. <i>Chemistry - A European Journal</i> , 2019, 25, 6807-6813.	1.7	23
87	The role of commensal microflora-induced T cell responses in glaucoma neurodegeneration. <i>Progress in Brain Research</i> , 2020, 256, 79-97.	0.9	21
88	CoNiO <sub>2</sub> /TiN–TiOxNy composites for ultrahigh electrochemical energy storage and simultaneous glucose sensing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10904.	5.2	19
89	Reversible Chemical Tuning of Charge Carriers for Enhanced Photoelectrochemical Conversion and Probing of Living Cells. <i>Small</i> , 2014, 10, 4967-4974.	5.2	18
90	Sub-5 nm porous nanocrystals: interfacial site-directed growth on graphene for efficient biocatalysis. <i>Chemical Science</i> , 2015, 6, 4029-4034.	3.7	18

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91	Implantable and Biodegradable Macroporous Iron Oxide Frameworks for Efficient Regeneration and Repair of Infarcted Heart. <i>Theranostics</i> , 2017, 7, 1966-1975.	4.6	17
92	Single-atom iron catalysts for biomedical applications. <i>Progress in Materials Science</i> , 2022, 128, 100959.	16.0	17
93	A turn-on luminescent probe for Fe <sup>3+</sup> and ascorbic acid with logic gate operation based on a zinc(II)-based metal-organic framework. <i>New Journal of Chemistry</i> , 2020, 44, 8728-8735.	1.4	16
94	Interfacial assembly of mesoporous nanopyramids as ultrasensitive cellular interfaces featuring efficient direct electrochemistry. <i>NPG Asia Materials</i> , 2015, 7, e204-e204.	3.8	14
95	Tunable Sized Polymeric Micelles and Their Assembly for the Preparation of Large Mesoporous Platinum Nanoparticles. <i>Angewandte Chemie</i> , 2016, 128, 10191-10195.	1.6	14
96	Aqueous Li-ion cells with superior cycling performance using multi-channelled polyaniline/Fe <sub>2</sub> O <sub>3</sub> nanotube anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20177-20181.	5.2	12
97	Ordered Hexagonal Mesoporous Aluminosilicates and their Application in Ligand-Free Synthesis of Secondary Amines. <i>ChemCatChem</i> , 2015, 7, 747-751.	1.8	12
98	Mesoporous carbon coated molybdenum oxide nanobelts for improved lithium ion storage. <i>RSC Advances</i> , 2014, 4, 29586-29590.	1.7	11
99	Artificial metabolism-inspired photoelectrochemical probing of biomolecules and cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15752-15757.	5.2	11
100	A water-stable zinc(II)-organic framework as an "on-off" fluorescent sensor for detection of Fe <sup>3+</sup> and reduced glutathione. <i>CrystEngComm</i> , 2021, 23, 1243-1250.	1.3	10
101	The Synthesis of Hollow/Porous Cu <sub>2</sub> O Nanoparticles by Ion-Pairing Behavior Control. <i>ACS Omega</i> , 2020, 5, 1879-1886.	1.6	8
102	Baicalein: A Potent Pro-Homeostatic Regulator of Microglia in Retinal Ischemic Injury. <i>Frontiers in Immunology</i> , 2022, 13, 837497.	2.2	8
103	"Highway" Toward Efficient Water Oxidation. <i>Matter</i> , 2021, 4, 21-22.	5.0	7
104	One-Step Bulk Preparation of Calcium Carbonate Nanotubes and Its Application in Anticancer Drug Delivery. <i>Biological Trace Element Research</i> , 2012, 147, 408-417.	1.9	5
105	Plasmon-enhanced photoelectrochemical monitoring of Ca <sup>2+</sup> from living cardiomyocytes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 759, 14-20.	1.9	5
106	A novel copper(I) metal-organic framework as a highly efficient and ultrasensitive electrochemical platform for detection of Hg(II) ions in aqueous solution. <i>CrystEngComm</i> , 2021, 23, 3043-3051.	1.3	5
107	Mesoporous Spheres: Multimetallic Mesoporous Spheres Through Surfactant-Directed Synthesis (Adv.) <i>Tj ETQq1 1 0,784314 rgBT /Over</i>	3.6	1
108	Åktitelbild: Growth of Single-Layered Two-Dimensional Mesoporous Polymer/Carbon Films by Self-Assembly of Monomicelles at the Interfaces of Various Substrates ( <i>Angew. Chem.</i> 29/2015). <i>Angewandte Chemie</i> , 2015, 127, 8686-8686.	1.6	0

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109	A Non-volatile View of Site-Specific Adsorption and Dynamics of VOCs and CO <sub>2</sub> . <i>Matter</i> , 2020, 3, 1823-1824.	5.0	0
110	Engineered Dissolution for Better Electrocatalysts. <i>CheM</i> , 2021, 7, 20-22.	5.8	0
111	Silicon nanowire synthesis by chemical vapor deposition. <i>Scientia Sinica Chimica</i> , 2013, 43, 1730-1735.	0.2	0