

# Tao Mei

## 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.

101  
papers

2,584  
citations

29  
h-index

47  
g-index

105  
ext. papers

3,148  
ext. citations

5.7  
avg, IF

5.36  
L-index

#	Paper	IF	Citations
101	Achieving steam and electrical power from solar energy by MoS <sub>2</sub> -based composites. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131008	14.7	8
100	A solid-state approach for the low temperature synthesis of Cr <sub>3</sub> Si hollow particles. <i>International Journal of Materials Research</i> , <b>2021</b> , 112, 918-921	0.5	
99	Taming Polysulfides in an Li-S Battery With Low-Temperature One-step Chemical Synthesis of Titanium Carbide Nanoparticles From Waste PTFE. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 638557	5	2
98	Reasonably Introduced ZnInS@C to Mediate Polysulfide Redox for Long-Life Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 14169-14180	9.5	7
97	Salt-resistant carbon dots modified solar steam system enhanced by chemical advection. <i>Carbon</i> , <b>2021</b> , 176, 313-326	10.4	25
96	Low-temperature synthesis of CrB nanoparticles and nanosheets by a solid-state reaction. <i>International Journal of Applied Ceramic Technology</i> , <b>2021</b> , 18, 1498-1501	2	0
95	Rational design of NiCo <sub>2</sub> S <sub>4</sub> @MoS <sub>2</sub> ball-in-ball heterostructure nanospheres for advanced lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 383, 138268	6.7	3
94	Design and synthesize hollow spindle Ni-doped Co <sub>9</sub> S <sub>8</sub> @ZnS composites and their enhanced cycle performance. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 157118	5.7	7
93	Intensifying sustainable solar water production by steam heat internal circulation. <i>Materials Advances</i> , <b>2021</b> , 2, 1731-1738	3.3	
92	Semiconductive, Flexible MnO <sub>2</sub> NWs/Chitosan Hydrogels for Efficient Solar Steam Generation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3887-3900	8.3	35
91	Solid-state synthesis of zirconium nitride and hafnium nitride powders. <i>Journal of the Ceramic Society of Japan</i> , <b>2021</b> , 129, 200-203	1	
90	A "Biconcave-Alleviated" Strategy to Construct -Derived Carbon/MoS for Ultrastable Sodium Ion Storage. <i>ACS Nano</i> , <b>2021</b> ,	16.7	14
89	Three-Dimensional Engineering of Sulfur/MnO Composites for High-Rate Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38394-38404	9.5	6
88	Biomass-Derived Bilayer Solar Evaporator with Enhanced Energy Utilization for High-Efficiency Water Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 57155-57164	9.5	15
87	A Boxes in fibers strategy to construct a necklace-like conductive network for high-rate and high-loading lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11327-11336	13	13
86	Efficient polysulfide anchor: brain coral-like WS <sub>2</sub> nanosheets. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 12031-12040	13	10
85	Facile synthesis of CoMnO/C nanocages as an efficient sulfur host for lithium-sulfur batteries with enhanced rate performance. <i>Dalton Transactions</i> , <b>2020</b> , 49, 8591-8600	4.3	7

84	A controllable flower-like FeMoO <sub>4</sub> /FeS <sub>2</sub> /MoS <sub>2</sub> composite as efficient sulfur host for lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2020</b> , 353, 136561	6.7	10
83	Biomimetic micro cell cathode for high performance lithium-sulfur batteries. <i>Nano Energy</i> , <b>2020</b> , 72, 104680	17.1	25
82	Ultrasensitive Fe <sup>3+</sup> ion detection based on carbon quantum dot-functionalized solution-gated graphene transistors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 4685-4689	7.1	10
81	Hierarchical Fusiform Microrods Constructed by Parallely Arranged Nanoplatelets of LiCoO <sub>2</sub> Material with Ultrahigh Rate Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17376-17384	9.5	3
80	One-step Chemical Synthesis of Superconducting MgCNi <sub>3</sub> Microparticles at Low Temperature. <i>Chemistry Letters</i> , <b>2020</b> , 49, 354-356	1.7	
79	Molybdenum Carbide/Carbon-Based Chitosan Hydrogel as an Effective Solar Water Evaporation Accelerator. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7139-7149	8.3	30
78	Stable metallic 1T phase engineering of molybdenum disulfide for enhanced solar vapor generation. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 204, 110227	6.4	23
77	Chinese hydrangea lantern-like CoS@MoS <sub>2</sub> composites with enhanced lithium-ion battery properties. <i>Nanoscale</i> , <b>2020</b> , 12, 3435-3442	7.7	7
76	Rational design of polar/nonpolar mediators toward efficient sulfur fixation and enhanced conductivity. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1010-1051	13	23
75	Yolk-double shell Fe <sub>3</sub> O <sub>4</sub> @C@C composite as high-performance anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 822, 153656	5.7	16
74	Functional Carbon Quantum Dots for Highly Sensitive Graphene Transistors for Cu Ion Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4797-4803	9.5	30
73	Controlled Synthesis of Long-Wavelength Multicolor-Emitting Carbon Dots for Highly Efficient Tandem Luminescent Solar Concentrators. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12230-12237	6.1	10
72	Heterojunction-structured MnCO@NiO composites and their enhanced electrochemical performance. <i>Dalton Transactions</i> , <b>2020</b> , 49, 14483-14489	4.3	4
71	Converting Waste Polyethylene into ZnCo and ZnNi by a One-Step Thermal Reduction Process. <i>ACS Omega</i> , <b>2019</b> , 4, 15729-15733	3.9	7
70	Highly sensitive solution-gated graphene transistors for label-free DNA detection. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 136, 91-96	11.8	27
69	Facile Synthesis of MoC Nanoparticles from Waste Polyvinyl Chloride. <i>ACS Omega</i> , <b>2019</b> , 4, 4896-4900	3.9	16
68	Bricklike CaCoO as an Active/Inactive Composite for Lithium-Ion Batteries with Enhanced Rate Performances. <i>ACS Omega</i> , <b>2019</b> , 4, 6452-6458	3.9	5
67	Carbon dot-based inverse opal hydrogels with photoluminescence: dual-mode sensing of solvents and metal ions. <i>Analyst</i> , <b>2019</b> , 144, 5802-5809	5	6

66	Facile Preparation of Superconducting NbC/C Nanocomposites by Magnesium-thermal Reduction Method. <i>Chemistry Letters</i> , <b>2019</b> , 48, 1465-1468	1.7	1
65	One-step chemical synthesis of MgCNi <sub>3</sub> nanoparticles embedded in carbon nanosheets utilizing waste polyethylene as carbon source. <i>Materials Research Express</i> , <b>2019</b> , 6, 126003	1.7	3
64	Hierarchical desert-waves-like LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> as advanced cathodes with superior rate capability and cycling stability. <i>Materials Today Energy</i> , <b>2019</b> , 14, 100363	7	6
63	Strong lithium polysulfides chemical trapping of TiC-TiO <sub>2</sub> /S composite for long-cycle lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 298, 43-51	6.7	37
62	Hierarchical LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> microspheres assembled with nanorice and their enhanced rates performance. <i>Materials Letters</i> , <b>2019</b> , 236, 653-656	3.3	2
61	Structural design and material preparation of carbon-based electrodes for high-performance lithium storage systems. <i>Carbon</i> , <b>2019</b> , 144, 127-146	10.4	15
60	Functionalized carbon materials for efficient solar steam and electricity generation. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 222, 159-164	4.4	30
59	Construction of high-strength p(HEMA-co-AA) fluorescent hydrogels based on modified carbon dots as chemically crosslinkers. <i>Colloid and Polymer Science</i> , <b>2018</b> , 296, 745-752	2.4	13
58	Cabbage-like nitrogen-doped graphene/sulfur composite for lithium-sulfur batteries with enhanced rate performance. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 753, 622-629	5.7	28
57	Controlled Shape Transformation and Loading Release of Smart Hemispherical Hybrid Microgels Triggered by Inner Engines. <i>ChemistrySelect</i> , <b>2018</b> , 3, 4067-4074	1.8	1
56	Single-Step Hydrothermal Synthesis of N, S-Dual-Doped Graphene Networks as Metal-Free Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , <b>2018</b> , 3, 3241-3250	1.8	9
55	A Solid-state Approach to the Synthesis of the Ternary Nitride Ni <sub>2</sub> Mo <sub>3</sub> N. <i>Chemistry Letters</i> , <b>2018</b> , 47, 20-22	1.7	1
54	Super-hydrophilic copper sulfide films as light absorbers for efficient solar steam generation under one sun illumination. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 025008	1.8	39
53	Oxygen plasma treated graphene aerogel as a solar absorber for rapid and efficient solar steam generation. <i>Carbon</i> , <b>2018</b> , 130, 250-256	10.4	116
52	Hierarchical LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> micro-rods with enhanced rate performance for lithium-ion batteries. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 9710-9720	4.3	8
51	Durian-like NiS <sub>2</sub> @rGO nanocomposites and their enhanced rate performance. <i>Chemical Engineering Journal</i> , <b>2018</b> , 335, 275-281	14.7	27
50	Reduced Graphene Oxide-Supported Cobalt Phosphide Nanoflowers via in situ Hydrothermal Synthesis as Pt-Free Effective Electrocatalysts for Oxygen Reduction Reaction. <i>Nano</i> , <b>2018</b> , 13, 1850047 <sup>1.1</sup>	1.1	6
49	Polyethylene Glycol Based Graphene Aerogel Confined Phase Change Materials with High Thermal Stability. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 3341-3347	1.3	13

48	One step conversion of waste polyethylene to Cr <sub>3</sub> C <sub>2</sub> nanorods and Cr <sub>2</sub> AlC particles under mild conditions. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2893-2897	6.8	13
47	Green emitting N,S-co-doped carbon dots for sensitive fluorometric determination of Fe(III) and Ag(I) ions, and as a solvatochromic probe. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 510	5.8	35
46	Flexible and portable graphene on carbon cloth as a power generator for electricity generation. <i>Carbon</i> , <b>2018</b> , 140, 488-493	10.4	36
45	Crystal structural design of exposed planes: express channels, high-rate capability cathodes for lithium-ion batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 17435-17455	7.7	41
44	PEGylated Self-Growth MoS on a Cotton Cloth Substrate for High-Efficiency Solar Energy Utilization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24583-24589	9.5	93
43	8-aminoquinoline functionalized graphene oxide for simultaneous determination of guanine and adenine. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1357-1364	2.6	8
42	Accessible Graphene Aerogel for Efficiently Harvesting Solar Energy. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 4665-4671	8.3	169
41	Reduced Graphene Oxide/Polyurethane Nanocomposite Foam as a Reusable Photoreceiver for Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5629-5635	9.6	205
40	Porous SnO <sub>2</sub> hexagonal prism-attached Pd/rGO with enhanced electrocatalytic activity for methanol oxidation. <i>RSC Advances</i> , <b>2017</b> , 7, 29909-29915	3.7	9
39	Synthesis of disk-like LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> nanoplates with exposed (001) planes and their enhanced rate performance in a lithium ion battery. <i>CrystEngComm</i> , <b>2017</b> , 19, 442-446	3.3	14
38	Investigation on enhancing effects of Au nanoparticles on solar steam generation in graphene oxide nanofluids. <i>Applied Thermal Engineering</i> , <b>2017</b> , 114, 961-968	5.8	106
37	Thermal Stability-Enhanced and High-Efficiency Planar Perovskite Solar Cells with Interface Passivation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38467-38476	9.5	66
36	Synthesis of a novel kind of uniform fluorescent silica colloids and their assembled photonic film for sensitive detection of Cu <sup>2+</sup> ions. <i>Materials Express</i> , <b>2017</b> , 7, 351-360	1.3	6
35	Hollow carbon spheres with TiO <sub>2</sub> encapsulated sulfur and polysulfides for long-cycle lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2017</b> , 330, 644-650	14.7	52
34	Low-Temperature and Solution-Processable Zinc Oxide Transistors for Transparent Electronics. <i>ACS Omega</i> , <b>2017</b> , 2, 8990-8996	3.9	23
33	Facile one-step solid-state reaction to synthesis of hafnium carbide nanoparticles at low temperature. <i>Journal of the Ceramic Society of Japan</i> , <b>2017</b> , 125, 789-791	1	7
32	Dual-Mode High-Sensitive Detection of Fe(III) Ions via Fluorescent Photonic Crystal Films Based on Co-Assembly of Silica Colloids and Carbon Dots. <i>Science of Advanced Materials</i> , <b>2017</b> , 9, 873-880	2.3	5
31	A sensitive porphyrin/reduced graphene oxide electrode for simultaneous detection of guanine and adenine. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 2055-2062	2.6	10

30	Coherent polyaniline/graphene oxides/multi-walled carbon nanotubes ternary composites for asymmetric supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 165-172	6.7	29
29	Synthesis of shell-in-shell LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> hollow microspheres and their enhanced performance for lithium ion batteries. <i>Materials Letters</i> , <b>2016</b> , 173, 141-144	3.3	4
28	A Simple Pyrolysis Route To Synthesize Carbon Nanofibers in Molten Zinc Chloride as an Anode Material for Li Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5326-5330	3.8	8
27	In situ synthesis of crosslinked-polyaniline nano-pillar arrays/reduced graphene oxide nanocomposites for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 665-671	2.6	5
26	Hierarchical architected MnCO <sub>3</sub> microdumbbells: facile synthesis and enhanced performance for lithium ion batteries. <i>CrystEngComm</i> , <b>2015</b> , 17, 6450-6455	3.3	38
25	A facile strategy to synthesize three-dimensional Pd@Pt core-shell nanoflowers supported on graphene nanosheets as enhanced nanoelectrocatalysts for methanol oxidation. <i>Chemical Communications</i> , <b>2015</b> , 51, 10490-3	5.8	53
24	One-pot synthesis of lightweight nitrogen-doped graphene hydrogels with supercapacitive properties. <i>Materials Research Bulletin</i> , <b>2015</b> , 68, 245-253	5.1	10
23	Facile synthesis of PEG based shape-stabilized phase change materials and their photo-thermal energy conversion. <i>Applied Thermal Engineering</i> , <b>2015</b> , 91, 630-637	5.8	85
22	Synthesis and characterization of alkylamine-functionalized graphene for polyolefin-based nanocomposites. <i>Applied Surface Science</i> , <b>2014</b> , 305, 725-731	6.7	51
21	Low-temperature and one-pot synthesis of sulfurized graphene nanosheets via in situ doping and their superior electrocatalytic activity for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20714-20722	13	48
20	Size-controlled PdO/graphene oxides and their reduction products with high catalytic activity. <i>RSC Advances</i> , <b>2014</b> , 4, 29563-29570	3.7	29
19	One-pot synthesis of carbon nanoribbons and their enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11974-11979	13	13
18	Selective and sensitive electrochemical detection of dopamine based on water-soluble porphyrin functionalized graphene nanocomposites. <i>RSC Advances</i> , <b>2014</b> , 4, 9261	3.7	49
17	Synthesis of Fe <sub>3</sub> O <sub>4</sub> @C core-shell nanorings and their enhanced electrochemical performance for lithium-ion batteries. <i>Nanoscale</i> , <b>2013</b> , 5, 3627-31	7.7	88
16	Synthesis of LiMnO <sub>2</sub> porous microsphere and its electrochemical behaviour as cathode material in lithium-ion batteries. <i>Micro and Nano Letters</i> , <b>2012</b> , 7, 439	0.9	7
15	Transformation from hollow carbon octahedra to compressed octahedra and their use in lithium-ion batteries. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 1604-1608	5.1	1
14	Solvothermal synthesis of LiFePO <sub>4</sub> /C nanopolyhedrons and microellipsoids and their performance in lithium-ion batteries. <i>Materials Letters</i> , <b>2012</b> , 66, 374-376	3.3	13
13	Preparation of mixed oxides Ca <sub>9</sub> Co <sub>12</sub> O <sub>28</sub> and their electrochemical properties. <i>Materials Letters</i> , <b>2012</b> , 82, 1-3	3.3	15

12	Controlled synthesis of nanocrystalline $\text{Li}_2\text{MnSiO}_4$ particles for high capacity cathode application in lithium-ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 2698-700	5.8	98
11	Hydrothermal synthesis of layered $\text{Li}_{1.81}\text{H}_0.19\text{Ti}_2\text{O}_5 \cdot x\text{H}_2\text{O}$ nanosheets and their transformation to single-crystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}$ nanosheets as the anode materials for Li-ion batteries. <i>CrystEngComm</i> , <b>2012</b> , 14, 6435	3.3	43
10	$\text{MnCO}_3$ microstructures assembled with nanoparticles: shape-controlled synthesis and their application for Li-ion batteries. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 7334-8	1.3	24
9	A thermal reduction route to nanocrystalline transition metal carbides from waste polytetrafluoroethylene and metal oxides. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 137, 1-4	4.4	22
8	Synchronously synthesized core-shell $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ /carbon nanocomposites as cathode materials for high performance lithium ion batteries. <i>RSC Advances</i> , <b>2012</b> , 2, 12886	3.7	37
7	Shape-controlled Synthesis of $\text{LiMnPO}_4$ via a Hydrothermal Route and Its Electrochemical Behavior in Lithium Ion Batteries. <i>Chemistry Letters</i> , <b>2011</b> , 40, 837-839	1.7	7
6	Solid state synthesis of nitride, carbide and boride nanocrystals in an autoclave. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 13756		18
5	Formation and morphology control of nanoparticles via solution routes in an autoclave. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 11457		88
4	Preparation of $\text{LiCoO}_2$ concaved cuboctahedra and their electrochemical behavior in lithium-ion battery. <i>Dalton Transactions</i> , <b>2011</b> , 40, 7645-50	4.3	27
3	Synthesis and Electrical Capacitance of Carbon Nanoplates. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 4314-4320	2.3	10
2	Intensifying Solar Interfacial Heat Accumulation for Clean Water Generation Excluding Heavy Metal Ions and Oil Emulsions. <i>Solar Rrl</i> , 2100427	7.1	11
1	Selective synthesis and magnetic properties of iron silicide ( $\text{Fe}_3\text{Si}$ and $\text{FeSi}$ ) at low temperature. <i>CrystEngComm</i> ,	3.3	0