

Jiangyan Wang

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.

65
papers

6,338
citations

37
h-index

69
g-index

69
ext. papers

7,730
ext. citations

17.5
avg, IF

6.33
L-index

#	Paper	IF	Citations
65	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022 , 34, 2270052	24	0
64	Accurately localizing multiple nanoparticles in a multishelled matrix through shell-to-core evolution for maximizing energy storage capability.. <i>Advanced Materials</i> , 2022 , e2200206	24	5
63	Coating conductive polypyrrole layers on multiple shells of hierarchical SnO ₂ spheres and their enhanced cycling stability as lithium-ion battery anode. <i>Applied Surface Science</i> , 2022 , 586, 152836	6.7	4
62	Decoding lithium batteries through advanced in situ characterization techniques. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 965-989	3.1	2
61	General Synthesis of Multiple-Cores@Multiple-Shells Hollow Composites and Their Application to Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25719-25722	16.4	7
60	General Synthesis of Multiple-Cores@Multiple-Shells Hollow Composites and Their Application to Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 25923-25926	3.6	0
59	Highly Efficient Photothermal Conversion and Water Transport during Solar Evaporation Enabled by Amorphous Hollow Multishelled Nanocomposites. <i>Advanced Materials</i> , 2021 , e2107400	24	16
58	Free-standing ultrathin lithium metal/graphene oxide host foils with controllable thickness for lithium batteries. <i>Nature Energy</i> , 2021 , 6, 790-798	62.3	56
57	Solar Water Splitting: Hollow Multishelled Structured SrTiO ₃ with La/Rh Co-Doping for Enhanced Photocatalytic Water Splitting under Visible Light (Small 22/2021). <i>Small</i> , 2021 , 17, 2170111	11	1
56	Small Structures Bring Big Things: Performance Control of Hollow Multishelled Structures. <i>Small Structures</i> , 2021 , 2, 2000041	8.7	23
55	Design and Construction of 3D Porous Na ₃ V ₂ (PO ₄) ₃ /C as High Performance Cathode for Sodium Ion Batteries. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 265-273	2.2	8
54	Hollow Multishelled Structured SrTiO with La/Rh Co-Doping for Enhanced Photocatalytic Water Splitting under Visible Light. <i>Small</i> , 2021 , 17, e2005345	11	16
53	The precise synthesis of twin-born Fe ₃ O ₄ /FeS/carbon nanosheets for high-rate lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4579-4588	7.8	7
52	Hollow Micro-/Nanostructure Reviving Lithium-sulfur Batteries. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 313-319	2.2	48
51	Dual-Defects Adjusted Crystal-Field Splitting of LaCo Ni O Hollow Multishelled Structures for Efficient Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19691-19695	16.4	37
50	Incorporating the Nanoscale Encapsulation Concept from Liquid Electrolytes into Solid-State Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2020 , 20, 5496-5503	11.5	15
49	Dual-Defects Adjusted Crystal-Field Splitting of LaCo _{1-x} Ni _x O ₃ Hollow Multishelled Structures for Efficient Oxygen Evolution. <i>Angewandte Chemie</i> , 2020 , 132, 19859-19863	3.6	4

48	Hollow multishelled structures revive high energy density batteries. <i>Nanoscale Horizons</i> , 2020 , 5, 1287-1293	12.8	13
47	Cryo-EM Reveals the Structure and Chemistry of the Silicon Solid-Electrolyte Interphase. <i>Chem</i> , 2020 , 6, 331-334	16.2	
46	A novel battery scheme: Coupling nanostructured phosphorus anodes with lithium sulfide cathodes. <i>Nano Research</i> , 2020 , 13, 1383-1388	10	10
45	Hollow multishell structures exercise temporal-spatial ordering and dynamic smart behaviour. <i>Nature Reviews Chemistry</i> , 2020 , 4, 159-168	34.6	83
44	Membrane-Free Zn/MnO ₂ Flow Battery for Large-Scale Energy Storage. <i>Advanced Energy Materials</i> , 2020 , 10, 1902085	21.8	53
43	Scalable synthesis of nanoporous silicon microparticles for highly cyclable lithium-ion batteries. <i>Nano Research</i> , 2020 , 13, 1558-1563	10	24
42	Improving Lithium Metal Composite Anodes with Seeding and Pillaring Effects of Silicon Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 4601-4608	16.7	34
41	Efficient sequential harvesting of solar light by heterogeneous hollow shells with hierarchical pores. <i>National Science Review</i> , 2020 , 7, 1638-1646	10.8	36
40	V O Textile Cathodes with High Capacity and Stability for Flexible Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1906205	24	68
39	Controllable Synthesis of Hollow Multishell Structured Co ₃ O ₄ with Improved Rate Performance and Cyclic Stability for Supercapacitors. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 68-73	2.2	39
38	A binder-free high silicon content flexible anode for Li-ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 848-858	35.4	158
37	Microclusters of Kinked Silicon Nanowires Synthesized by a Recyclable Iodide Process for High-Performance Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2020 , 10, 2002108	21.8	28
36	Electrolyte-Phobic Surface for the Next-Generation Nanostructured Battery Electrodes. <i>Nano Letters</i> , 2020 , 20, 7455-7462	11.5	16
35	Hollow multishelled structural NiO as a shelter for high-performance LiS batteries. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2971-2975	7.8	5
34	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. <i>Nature Nanotechnology</i> , 2019 , 14, 705-711	28.7	442
33	Temperature-Dependent Nucleation and Growth of Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11364-11368	16.4	111
32	Hollow Multishelled Structures for Promising Applications: Understanding the Structure-Performance Correlation. <i>Accounts of Chemical Research</i> , 2019 , 52, 2169-2178	24.3	110
31	Temperature-Dependent Nucleation and Growth of Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2019 , 131, 11486-11490	3.6	44

30	Hollow Multi-Shelled Structural TiO with Multiple Spatial Confinement for Long-Life Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9078-9082	16.4	100
29	Hollow Multi-Shelled Structural TiO ₂ with Multiple Spatial Confinement for Long-Life Lithium Sulfur Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 9176-9180	3.6	33
28	Uniform High Ionic Conducting Lithium Sulfide Protection Layer for Stable Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019 , 9, 1900858	21.8	186
27	Hollow Multi-Shelled Structure with Metal-Organic-Framework-Derived Coatings for Enhanced Lithium Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5266-5271	16.4	67
26	Improving cyclability of Li metal batteries at elevated temperatures and its origin revealed by cryo-electron microscopy. <i>Nature Energy</i> , 2019 , 4, 664-670	62.3	200
25	Hollow Multi-Shelled Structure with Metal-Organic-Framework-Derived Coatings for Enhanced Lithium Storage. <i>Angewandte Chemie</i> , 2019 , 131, 5320-5325	3.6	12
24	Constructing SrTiO -TiO Heterogeneous Hollow Multi-shelled Structures for Enhanced Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1422-1426	16.4	139
23	Sequential Templating Approach: A Groundbreaking Strategy to Create Hollow Multishelled Structures. <i>Advanced Materials</i> , 2019 , 31, e1802874	24	110
22	Design of Hollow Nanostructures for Energy Storage, Conversion and Production. <i>Advanced Materials</i> , 2019 , 31, e1801993	24	224
21	Electrocatalytic N-Doped Graphitic Nanofiber - Metal/Metal Oxide Nanoparticle Composites. <i>Small</i> , 2018 , 14, e1703459	11	42
20	A manganese-hydrogen battery with potential for grid-scale energy storage. <i>Nature Energy</i> , 2018 , 3, 428-435	62.3	174
19	Engineering stable interfaces for three-dimensional lithium metal anodes. <i>Science Advances</i> , 2018 , 4, eaat5168	14.3	116
18	Construction of Multishelled Binary Metal Oxides via Coabsorption of Positive and Negative Ions as a Superior Cathode for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17114-17119	16.4	65
17	Constructing SrTiO ₃ /TiO ₂ Heterogeneous Hollow Multi-shelled Structures for Enhanced Solar Water Splitting. <i>Angewandte Chemie</i> , 2018 , 131, 1436	3.6	5
16	Shell-Protective Secondary Silicon Nanostructures as Pressure-Resistant High-Volumetric-Capacity Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , 2018 , 18, 7060-7065	11.5	78
15	Multi-shelled hollow micro-/nanostructures: promising platforms for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 414-430	7.8	157
14	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017 , 12, 993-999	28.7	290
13	Multi-shelled metal oxides prepared via an anion-adsorption mechanism for lithium-ion batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	304

12	Engineering of multi-shelled SnO ₂ hollow microspheres for highly stable lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17673-17677	13	108
11	Multi-shelled LiMn ₂ O ₄ hollow microspheres as superior cathode materials for lithium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 365-369	6.8	75
10	Synthesis of multi-shelled MnO ₂ hollow microspheres via an anion-adsorption process of hydrothermal intensification. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1065-1070	6.8	53
9	Multi-shelled hollow micro-/nanostructures. <i>Chemical Society Reviews</i> , 2015 , 44, 6749-73	58.5	540
8	Quintuple-shelled SnO(2) hollow microspheres with superior light scattering for high-performance dye-sensitized solar cells. <i>Advanced Materials</i> , 2014 , 26, 905-9	24	260
7	Multishelled TiO ₂ hollow microspheres as anodes with superior reversible capacity for lithium ion batteries. <i>Nano Letters</i> , 2014 , 14, 6679-84	11.5	366
6	pH-Regulated Synthesis of Multi-Shelled Manganese Oxide Hollow Microspheres as Supercapacitor Electrodes Using Carbonaceous Microspheres as Templates. <i>Advanced Science</i> , 2014 , 1, 1400011	13.6	145
5	Accurate control of multishelled Co ₃ O ₄ hollow microspheres as high-performance anode materials in lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6417-20	16.4	580
4	Accurate Control of Multishelled Co ₃ O ₄ Hollow Microspheres as High-Performance Anode Materials in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2013 , 125, 6545-6548	3.6	264
3	Molecular Architecture of Cobalt Porphyrin Multilayers on Reduced Graphene Oxide Sheets for High-Performance Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2013 , 125, 5695-5699	3.6	95
2	The development of hollow multishelled structure: from the innovation of synthetic method to the discovery of new characteristics. <i>Science China Chemistry</i> , 1	7.9	1
1	Graphene coating on silicon anodes enabled by thermal surface modification for high-energy lithium-ion batteries. <i>MRS Bulletin</i> , 1	3.2	1