

# Wentao Yao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7972703/publications.pdf>

Version: 2024-02-01

36  
papers

1,566  
citations

430874

18  
h-index

414414

32  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2430  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of large cations on the electrochemical properties of tunnel-structured metal oxides. <i>Nature Communications</i> , 2016, 7, 13374.	12.8	180
2	Tip-Enhanced Electric Field: A New Mechanism Promoting Mass Transfer in Oxygen Evolution Reactions. <i>Advanced Materials</i> , 2021, 33, e2007377.	21.0	179
3	Elevated-Temperature 3D Printing of Hybrid Solid-State Electrolyte for Li-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1800615.	21.0	159
4	Ordering Heterogeneity of [MnO <sub>6</sub> ] Octahedra in Tunnel-Structured MnO <sub>2</sub> and Its Influence on Ion Storage. <i>Joule</i> , 2019, 3, 471-484.	24.0	123
5	Tuning Li <sub>2</sub> O <sub>2</sub> Formation Routes by Facet Engineering of MnO <sub>2</sub> Cathode Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 12832-12838.	13.7	107
6	A conductive-dielectric gradient framework for stable lithium metal anode. <i>Energy Storage Materials</i> , 2020, 24, 700-706.	18.0	88
7	Design Principle, Optimization Strategies, and Future Perspectives of Anode-Free Configurations for High-Energy Rechargeable Metal Batteries. <i>Electrochemical Energy Reviews</i> , 2021, 4, 601-631.	25.5	69
8	Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. <i>ACS Nano</i> , 2016, 10, 539-548.	14.6	66
9	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , 2020, 11, 6373.	12.8	65
10	Cations Coordination-Regulated Reversibility Enhancement for Aqueous Zn-Ion Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2105736.	14.9	59
11	Cations controlled growth of $\beta$ -MnO <sub>2</sub> crystals with tunable facets for electrochemical energy storage. <i>Nano Energy</i> , 2018, 48, 301-311.	16.0	56
12	Dynamic study of (De)sodiation in alpha-MnO <sub>2</sub> nanowires. <i>Nano Energy</i> , 2016, 19, 382-390.	16.0	54
13	Anisotropic Friction of Wrinkled Graphene Grown by Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 20922-20927.	8.0	51
14	A compact Bi <sub>2</sub> WO <sub>6</sub> microflowers anode for potassium-ion storage: Taming a sequential phase evolution toward stable electrochemical cycling. <i>Nano Energy</i> , 2021, 82, 105784.	16.0	49
15	In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. <i>Small Methods</i> , 2017, 1, 1700202.	8.6	45
16	Characteristic Work Function Variations of Graphene Line Defects. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18360-18366.	8.0	43
17	Real-Time TEM Study of Nanopore Evolution in Battery Materials and Their Suppression for Enhanced Cycling Performance. <i>Nano Letters</i> , 2019, 19, 3074-3082.	9.1	29
18	Beyond Volume Variation: Anisotropic and Protrusive Lithiation in Bismuth Nanowire. <i>ACS Nano</i> , 2020, 14, 15669-15677.	14.6	18

#	ARTICLE	IF	CITATIONS
19	An asymmetric supercapacitor based on a NiO/Co <sub>3</sub> O <sub>4</sub> @NiCo cathode and an activated carbon anode. <i>New Carbon Materials</i> , 2020, 35, 112-120.	6.1	18
20	Revealing the Atomic Structures of Exposed Lateral Surfaces for Polymorphic Manganese Dioxide Nanowires. <i>Small Structures</i> , 2021, 2, 2000091.	12.0	18
21	Facile hydrothermal synthesis of antibacterial multi-layered hydroxyapatite nanostructures with superior flexibility. <i>CrystEngComm</i> , 2018, 20, 1304-1312.	2.6	15
22	Energy-driven surface evolution in beta-MnO <sub>2</sub> structures. <i>Nano Research</i> , 2018, 11, 206-215.	10.4	15
23	Direct evidence of M2 phase during the monoclinic-tetragonal (rutile) phase transition of W-doped VO <sub>2</sub> nanowires. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	11
24	Toward real-time monitoring of lithium metal growth and dendrite formation surveillance for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7090-7099.	10.3	11
25	Atomistic Insights of Irreversible Li <sup>+</sup> Intercalation in MnO <sub>2</sub> Electrode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
26	Localized Mechanical Stress Induced Ionic Redistribution in a Layered LiCoO <sub>2</sub> Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29391-29399.	8.0	7
27	<i>In situ</i> visualization of the superior nanomechanical flexibility of individual hydroxyapatite nanobelts. <i>CrystEngComm</i> , 2018, 20, 1031-1036.	2.6	7
28	Battery-on-Separator: A platform technology for arbitrary-shaped lithium ion batteries for high energy density storage. <i>Journal of Power Sources</i> , 2021, 490, 229527.	7.8	6
29	Interface metallization enabled an ultra-stable Fe <sub>2</sub> O <sub>3</sub> hierarchical anode for pseudocapacitors. <i>RSC Advances</i> , 2020, 10, 8636-8644.	3.6	4
30	Atomistic Insights of Irreversible Li <sup>+</sup> Intercalation in MnO <sub>2</sub> Electrode. <i>Angewandte Chemie</i> , 2022, 134, e202113420.	2.0	3
31	Simultaneous Structural and Electrical Analysis of Vanadium Dioxide Using In Situ TEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 1672-1673.	0.4	1
32	Tunnel Intergrowth Structures in Manganese Dioxide and Their Influence on Ion Storage. <i>Microscopy and Microanalysis</i> , 2018, 24, 1500-1501.	0.4	1
33	Laser-Induced Nitrogen-doped Graphene for High-Performance Flexible Supercapacitors. , 2020, , .		1
34	Dynamic Study of Sodiation Process in Single Crystalline $\alpha$ -MnO <sub>2</sub> Nanowires. <i>Microscopy and Microanalysis</i> , 2015, 21, 1543-1544.	0.4	0
35	In situ cooling and heating study of VO <sub>2</sub> phase transition. <i>Microscopy and Microanalysis</i> , 2016, 22, 816-817.	0.4	0
36	Atomistic Exploration of the Surface-Sensitive Oriented Attachment Growth of $\alpha$ -MnO <sub>2</sub> Nanowires and the Formation of Defective Interface with 2Å–3 and 2Å–4 Tunnel Intergrowth. <i>Microscopy and Microanalysis</i> , 2016, 22, 386-387.	0.4	0