

Jinsong Wu

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.

118
papers

6,357
citations

46
h-index

78
g-index

122
ext. papers

7,652
ext. citations

11
avg, IF

6.02
L-index

#	Paper	IF	Citations
118	Interfacial gliding-driven lattice oxygen release in layered cathodes. <i>Cell Reports Physical Science</i> , 2022 , 3, 100695	6.1	2
117	Longitudinal assessment of network reorganizations and language recovery in postoperative patients with glioma.. <i>Brain Communications</i> , 2022 , 4, fcac046	4.5	0
116	Suppressing the Jahn-Teller Effect in Mn-Based Layered Oxide Cathode toward Long-Life Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022 , 32, 2108244	15.6	5
115	Coordination engineering of metal single atom on carbon for enhanced and robust potassium storage. <i>Matter</i> , 2021 ,	12.7	14
114	Serial cracking in Van der Waals layered electrodes mediated by electrochemical reaction and mechanical deformation. <i>Cell Reports Physical Science</i> , 2021 , 2, 100642	6.1	1
113	Ultra-Fast and In-Depth Reconstruction of Transition Metal Fluorides in Electrocatalytic Hydrogen Evolution Processes. <i>Advanced Science</i> , 2021 , e2103567	13.6	9
112	Pan-cancer analysis of non-coding transcripts reveals the prognostic onco-lncRNA HOXA10-AS in gliomas. <i>Cell Reports</i> , 2021 , 37, 109873	10.6	2
111	Regulative Electronic States around Ruthenium/Ruthenium Disulphide Heterointerfaces for Efficient Water Splitting in Acidic Media. <i>Angewandte Chemie</i> , 2021 , 133, 12436-12442	3.6	10
110	Regulative Electronic States around Ruthenium/Ruthenium Disulphide Heterointerfaces for Efficient Water Splitting in Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12328-12334	16.4	47
109	Ligand and Anion Co-Leaching Induced Complete Reconstruction of Polyoxomolybdate-Organic Complex Oxygen-Evolving Pre-Catalysts. <i>Advanced Functional Materials</i> , 2021 , 31, 2101792	15.6	10
108	In Situ, Atomic-Resolution Observation of Lithiation and Sodiation of WS Nanoflakes: Implications for Lithium-Ion and Sodium-Ion Batteries. <i>Small</i> , 2021 , 17, e2100637	11	12
107	Solvent-Free Encapsulation of Ultrafine SnO ₂ Nanoparticles in N-Doped Carbon for High-Capacity and Durable Lithium Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6277-6283	6.1	3
106	A hybrid lithium storage mechanism of hard carbon enhances its performance as anodes for lithium-ion batteries. <i>Carbon</i> , 2021 , 178, 443-450	10.4	12
105	Surface Oxidation Layer-Mediated Conformal Carbon Coating on Si Nanoparticles for Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3991-3998	9.5	21
104	Multivariate machine learning-based language mapping in glioma patients based on lesion topography. <i>Brain Imaging and Behavior</i> , 2021 , 15, 2552-2562	4.1	1
103	Direct Visualization of Atomic-Scale Heterogeneous Structure Dynamics in MnO Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33644-33651	9.5	4
102	Solid Solution of Bi and Sb for Robust Lithium Storage Enabled by Consecutive Alloying Reaction. <i>Small</i> , 2021 , 17, e2102915	11	4

101	A Durable Ni-Zn Microbattery with Ultrahigh-Rate Capability Enabled by In Situ Reconstructed Nanoporous Nickel with Epitaxial Phase. <i>Small</i> , 2021 , 17, e2103136	11	5
100	Electrical stimulation-induced speech-related negative motor responses in the lateral frontal cortex.. <i>Journal of Neurosurgery</i> , 2021 , 1-9	3.2	
99	Complete Reconstruction of Hydrate Pre-Catalysts for Ultrastable Water Electrolysis in Industrial-Concentration Alkali Media. <i>Cell Reports Physical Science</i> , 2020 , 1, 100241	6.1	42
98	Tumor grade-related language and control network reorganization in patients with left cerebral glioma. <i>Cortex</i> , 2020 , 129, 141-157	3.8	10
97	Enveloping SiOx in N-doped carbon for durable lithium storage via an eco-friendly solvent-free approach. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13285-13291	13	36
96	Temporal circuit of macroscale dynamic brain activity supports human consciousness. <i>Science Advances</i> , 2020 , 6, eaaz0087	14.3	52
95	Stabilizing conversion reaction electrodes by MOF derived N-doped carbon shell for highly reversible lithium storage. <i>Nano Energy</i> , 2020 , 73, 104758	17.1	15
94	Altered Global Brain Signal during Physiologic, Pharmacologic, and Pathologic States of Unconsciousness in Humans and Rats. <i>Anesthesiology</i> , 2020 , 132, 1392-1406	4.3	19
93	Ru-doped 3D flower-like bimetallic phosphide with a climbing effect on overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119396	21.8	127
92	K+ modulated K+/vacancy disordered layered oxide for high-rate and high-capacity potassium-ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 3129-3137	35.4	36
91	Reconstruction-Determined Alkaline Water Electrolysis at Industrial Temperatures. <i>Advanced Materials</i> , 2020 , 32, e2001136	24	67
90	High-Voltage Cycling Induced Thermal Vulnerability in LiCoO Cathode: Cation Loss and Oxygen Release Driven by Oxygen Vacancy Migration. <i>ACS Nano</i> , 2020 , 14, 6181-6190	16.7	55
89	Sodium storage in hard carbon with curved graphene platelets as the basic structural units. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3327-3335	13	76
88	Combination of Magnetic Resonance Spectroscopy and ¹¹ C-Methionine Positron Emission Tomography for the Accurate Diagnosis of Non-Enhancing Supratentorial Glioma. <i>Korean Journal of Radiology</i> , 2019 , 20, 967-975	6.9	4
87	Resting-state functional connectivity predicts individual language impairment of patients with left hemispheric gliomas involving language network. <i>NeuroImage: Clinical</i> , 2019 , 24, 102023	5.3	15
86	Functional near-infrared spectroscopy for intraoperative brain mapping. <i>Neurophotonics</i> , 2019 , 6, 045010	9.9	2
85	Ambient oxidation of TiC MXene initialized by atomic defects. <i>Nanoscale</i> , 2019 , 11, 23330-23337	7.7	55
84	Strain-Induced Metastable Phase Stabilization in GaO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5536-5543	9.5	25

83	In-situ growth of graphene decorated Ni ₃ S ₂ pyramids on Ni foam for high-performance overall water splitting. <i>Applied Surface Science</i> , 2019 , 465, 772-779	6.7	30
82	Breakdown in the temporal and spatial organization of spontaneous brain activity during general anesthesia. <i>Human Brain Mapping</i> , 2018 , 39, 2035-2046	5.9	34
81	Crumpled Graphene Balls Stabilized Dendrite-free Lithium Metal Anodes. <i>Joule</i> , 2018 , 2, 184-193	27.8	241
80	Reorganization of cerebro-cerebellar circuit in patients with left hemispheric gliomas involving language network: A combined structural and resting-state functional MRI study. <i>Human Brain Mapping</i> , 2018 , 39, 4802-4819	5.9	26
79	Revealing the Effects of Electrode Crystallographic Orientation on Battery Electrochemistry via the Anisotropic Lithiation and Sodiation of ReS. <i>ACS Nano</i> , 2018 , 12, 7875-7882	16.7	21
78	Disrupted neural variability during propofol-induced sedation and unconsciousness. <i>Human Brain Mapping</i> , 2018 , 39, 4533-4544	5.9	21
77	Long-Term Functional and Oncologic Outcomes of Glioma Surgery with and without Intraoperative Neurophysiologic Monitoring: A Retrospective Cohort Study in a Single Center. <i>World Neurosurgery</i> , 2018 , 119, e94-e105	2.1	6
76	Lithium Electrochemistry of WS ₂ Nanoflakes Studied by In-situ TEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1860-1861	0.5	3
75	Transcortical insular glioma resection: clinical outcome and predictors. <i>Journal of Neurosurgery</i> , 2018 , 131, 706-716	3.2	14
74	Dynamic imaging of metastable reaction pathways in lithiated cobalt oxide electrodes. <i>Nano Energy</i> , 2018 , 44, 15-22	17.1	20
73	Synthesis and electrochemical performance of vertical carbon nanotubes on few-layer graphene as an anode material for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2018 , 205, 359-365	4.4	18
72	Thin Film RuO ₂ Lithiation: Fast Lithium-Ion Diffusion along the Interface. <i>Advanced Functional Materials</i> , 2018 , 28, 1805723	15.6	7
71	Aqueous Stable TiC MXene Membrane with Fast and Photoswitchable Nanofluidic Transport. <i>ACS Nano</i> , 2018 , 12, 12464-12471	16.7	88
70	2018 ,		4
69	Origin of Fracture-Resistance to Large Volume Change in Cu-Substituted Co O Electrodes. <i>Advanced Materials</i> , 2018 , 30, 1704851	24	23
68	NiSe ₂ pyramids deposited on N-doped graphene encapsulated Ni foam for high-performance water oxidation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3981-3986	13	51
67	Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. <i>Nano Letters</i> , 2017 , 17, 2539-2546	11.5	66
66	Adult IDH wild-type lower-grade gliomas should be further stratified. <i>Neuro-Oncology</i> , 2017 , 19, 1327-1337		121

65	Intermediate phases in sodium intercalation into MoS2 nanosheets and their implications for sodium-ion batteries. <i>Nano Energy</i> , 2017 , 38, 342-349	17.1	119
64	An automated method for identifying an independent component analysis-based language-related resting-state network in brain tumor subjects for surgical planning. <i>Scientific Reports</i> , 2017 , 7, 13769	4.9	25
63	Revealing the Conversion Mechanism of Transition Metal Oxide Electrodes during Lithiation from First-Principles. <i>Chemistry of Materials</i> , 2017 , 29, 9011-9022	9.6	46
62	PVD amorphous carbon coated 3D NiCo2O4 on carbon cloth as flexible electrode for both sodium and lithium storage. <i>Carbon</i> , 2017 , 125, 375-383	10.4	55
61	Exfoliated MoS2 nanosheets confined in 3-D hierarchical carbon nanotube@graphene architecture with superior sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 355-363	13	62
60	Bringing 5G into Rural and Low-Income Areas: Is It Feasible?. <i>IEEE Communications Standards Magazine</i> , 2017 , 1, 50-57	3.3	69
59	Decoupled temporal variability and signal synchronization of spontaneous brain activity in loss of consciousness: An fMRI study in anesthesia. <i>NeuroImage</i> , 2016 , 124, 693-703	7.9	60
58	Electrochemistry of Selenium with Sodium and Lithium: Kinetics and Reaction Mechanism. <i>ACS Nano</i> , 2016 , 10, 8788-95	16.7	119
57	Ternary Metal Phosphide with Triple-Layered Structure as a Low-Cost and Efficient Electrocatalyst for Bifunctional Water Splitting. <i>Advanced Functional Materials</i> , 2016 , 26, 7644-7651	15.6	303
56	Reactions of graphene supported Co3O4 nanocubes with lithium and magnesium studied by in situ transmission electron microscopy. <i>Nanotechnology</i> , 2016 , 27, 085402	3.4	12
55	Morphological Evolution of Multilayer Ni/NiO Thin Film Electrodes during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19979-86	9.5	22
54	The clinical utility of multimodal MR image-guided needle biopsy in cerebral gliomas. <i>International Journal of Neuroscience</i> , 2016 , 126, 53-61	2	9
53	Dimensionally Controlled Lithiation of Chromium Oxide. <i>Chemistry of Materials</i> , 2016 , 28, 47-54	9.6	11
52	Nickel Cobalt Hydroxide @Reduced Graphene Oxide Hybrid Nanolayers for High Performance Asymmetric Supercapacitors with Remarkable Cycling Stability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1992-2000	9.5	309
51	Biomarker-based prognostic stratification of young adult glioblastoma. <i>Oncotarget</i> , 2016 , 7, 5030-41	3.3	34
50	Not all 1p/19q non-codeleted oligodendroglial tumors are astrocytic. <i>Oncotarget</i> , 2016 , 7, 64615-64630	3.3	17
49	Atomic-resolution in-situ TEM Studies of Lithium Electrochemistry in Co3O4-Carbon Nanotube Nanocomposite. <i>Microscopy and Microanalysis</i> , 2016 , 22, 762-763	0.5	
48	Synergistic sodiation of cobalt oxide nanoparticles and conductive carbon nanotubes (CNTs) for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8669-8675	13	24

47	High-Surface-Area Antimony Sulfide Chalcogels. <i>Chemistry of Materials</i> , 2016 , 28, 7744-7749	9.6	15
46	Combined Toxicity of Nano-ZnO and Nano-TiO ₂ : From Single- to Multinanomaterial Systems. <i>Environmental Science & Technology</i> , 2015 , 49, 8113-23	10.3	114
45	3D LITHOGRAPHY. Atomic gold-enabled three-dimensional lithography for silicon mesostructures. <i>Science</i> , 2015 , 348, 1451-5	33.3	73
44	Post-assembly atomic layer deposition of ultrathin metal-oxide coatings enhances the performance of an organic dye-sensitized solar cell by suppressing dye aggregation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5150-9	9.5	37
43	Development of hierarchically porous cobalt oxide for enhanced photo-oxidation of indoor pollutants. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	6
42	Vapor deposition polymerization of aniline on 3D hierarchical porous carbon with enhanced cycling stability as supercapacitor electrode. <i>Journal of Power Sources</i> , 2015 , 286, 1-9	8.9	97
41	Ion-Exchangeable Molybdenum Sulfide Porous Chalcogel: Gas Adsorption and Capture of Iodine and Mercury. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13943-8	16.4	105
40	Size as a Parameter to Stabilize New Phases: Rock Salt Phases of Pb(m)Sb(2n)Se(m+3n). <i>Journal of the American Chemical Society</i> , 2015 , 137, 9937-42	16.4	16
39	Oxygen-rich hierarchical porous carbon derived from artemia cyst shells with superior electrochemical performance. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1132-9	9.5	219
38	Co ₃ O ₄ nanocubes homogeneously assembled on few-layer graphene for high energy density lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 274, 816-822	8.9	141
37	Direct evidence from intraoperative electrocortical stimulation indicates shared and distinct speech production center between Chinese and English languages. <i>Human Brain Mapping</i> , 2015 , 36, 4972-85	5.9	21
36	Suppressing Manganese Dissolution from Lithium Manganese Oxide Spinel Cathodes with Single-Layer Graphene. <i>Advanced Energy Materials</i> , 2015 , 5, 1500646	21.8	60
35	Reaction Mechanism and Kinetic of Graphene Supported Co ₃ O ₄ Nanocubes with Lithium and Magnesium Studied by in situ TEM. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1197-1198	0.5	1
34	Real-time Observation of Electrochemical Sodiation of Co ₃ O ₄ /CNTs by in-situ Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1811-1812	0.5	
33	Phase stability and photoactivity of CuO modified titania nanotube prepared by hydrothermal method. <i>Journal of Molecular Catalysis A</i> , 2015 , 402, 23-28		7
32	Spectroscopic Characterization of TiO ₂ Polymorphs in Wastewater Treatment and Sediment Samples. <i>Environmental Science and Technology Letters</i> , 2015 , 2, 12-18	11	29
31	Altered temporal variance and neural synchronization of spontaneous brain activity in anesthesia. <i>Human Brain Mapping</i> , 2014 , 35, 5368-78	5.9	50
30	Atomic resolution study of reversible conversion reaction in metal oxide electrodes for lithium-ion battery. <i>ACS Nano</i> , 2014 , 8, 11560-6	16.7	132

29	Dynamics of electrochemical lithiation/delithiation of graphene-encapsulated silicon nanoparticles studied by in-situ TEM. <i>Scientific Reports</i> , 2014 , 4, 3863	4.9	70
28	Dye stabilization and enhanced photoelectrode wettability in water-based dye-sensitized solar cells through post-assembly atomic layer deposition of TiO ₂ . <i>Journal of the American Chemical Society</i> , 2013 , 135, 11529-32	16.4	89
27	Effects of material morphology on the phototoxicity of nano-TiO ₂ to bacteria. <i>Environmental Science & Technology</i> , 2013 , 47, 12486-95	10.3	120
26	Plasmon-mediated synthesis of silver cubes with unusual twinning structures using short wavelength excitation. <i>Small</i> , 2013 , 9, 1947-53	11	55
25	Nanoscale stabilization of new phases in the PbTe-Sb ₂ Te ₃ system: Pb(m)Sb(2n)Te(m+3n) nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 768-74	16.4	37
24	Awake language mapping and 3-Tesla intraoperative MRI-guided volumetric resection for gliomas in language areas. <i>Journal of Clinical Neuroscience</i> , 2013 , 20, 1280-7	2.2	45
23	Electron Tomography of Au-Catalyzed Semiconductor Nanowires. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1059-1063	3.8	10
22	Synthesis of fivefold stellate polyhedral gold nanoparticles with {110}-facets via a seed-mediated growth method. <i>Small</i> , 2013 , 9, 705-10	11	41
21	The relationship between Cho/NAA and glioma metabolism: implementation for margin delineation of cerebral gliomas. <i>Acta Neurochirurgica</i> , 2012 , 154, 1361-70; discussion 1370	3	59
20	Coupling Titania Nanotubes and Carbon Nanotubes To Create Photocatalytic Nanocomposites. <i>ACS Catalysis</i> , 2012 , 2, 223-229	13.1	126
19	Cubic form of Pb(2-x)Sn(x)S ₂ stabilized through size reduction to the nanoscale. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3228-33	16.4	31
18	Crumpled Graphene-Encapsulated Si Nanoparticles for Lithium Ion Battery Anodes. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1824-9	6.4	419
17	Assembly of reconfigurable one-dimensional colloidal superlattices due to a synergy of fundamental nanoscale forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2240-5	11.5	119
16	Synthetically programmable nanoparticle superlattices using a hollow three-dimensional spacer approach. <i>Nature Nanotechnology</i> , 2011 , 7, 24-8	28.7	143
15	Construction of an organic crystal structural model based on combined electron and powder X-ray diffraction data and the charge flipping algorithm. <i>Ultramicroscopy</i> , 2011 , 111, 812-6	3.1	4
14	The Effects of Pt Doping on the Structure and Visible Light Photoactivity of Titania Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21262-21269	3.8	131
13	Establishing the design rules for DNA-mediated programmable colloidal crystallization. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4589-92	16.4	130
12	Plasmon-mediated synthesis of silver triangular bipyramids. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7787-91	16.4	141

11	Vertical organic nanowire arrays: controlled synthesis and chemical sensors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3158-9	16.4	144
10	Construction of evolutionary tree for morphological engineering of nanoparticles. <i>ACS Nano</i> , 2009 , 3, 2191-8	16.7	94
9	Chemical synthesis of gold nanowires in acidic solutions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14442-3	16.4	163
8	Nanocrystals of the Quaternary Thermoelectric Materials: AgPbmSbTem+2 (m = 1-8): Phase-Segregated or Solid Solutions?. <i>Advanced Materials</i> , 2008 , 20, 3638-3642	24	63
7	Automated Electron Nanocrystallography. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1026, 1		1
6	Ab initio phasing of X-ray powder diffraction patterns by charge flipping. <i>Nature Materials</i> , 2006 , 5, 647-52		63
5	Diffractive electron imaging of nanoparticles on a substrate. <i>Nature Materials</i> , 2005 , 4, 912-6	27	27
4	A Strain-Relaxation Red Phosphorus Freestanding Anode for Non-Aqueous Potassium Ion Batteries. <i>Advanced Energy Materials</i> , 2103343	21.8	1
3	Tunable Ru-Ru 2 P heterostructures with charge redistribution for efficient pH-universal hydrogen evolution. <i>Informa Materials</i> ,	23.1	7
2	Ultralow Ru-assisted and vanadium-doped flower-like CoP/Ni2P heterostructure for efficient water splitting in alkali and seawater. <i>Journal of Materials Chemistry A</i> ,	13	4
1	Unraveling the reaction mechanisms of electrode materials for sodium-ion and potassium-ion batteries by in situ transmission electron microscopy		4