

Yimin A Wu

List of Publications by Year in descending order

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59
papers

3,804
citations

159585

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h-index

133252

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59
all docs

59
docs citations

59
times ranked

6123
citing authors

#	ARTICLE	IF	CITATIONS
1	An insight into the initial Coulombic efficiency of carbon-based anode materials for potassium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 428, 131093.	12.7	38
2	Intercalation of Ca into a Highly Defective Manganese Oxide at Room Temperature. <i>Chemistry of Materials</i> , 2022, 34, 836-846.	6.7	10
3	Versatile memristor for memory and neuromorphic computing. <i>Nanoscale Horizons</i> , 2022, 7, 299-310.	8.0	38
4	Activating Surface Lattice Oxygen of a Cu/Zn _{1-x} Cu _x O Catalyst through Interface Interactions for CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9882-9890.	8.0	13
5	The interplay between selective etching induced cation defects and active oxygen species for volatile organic compounds degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 363-372.	9.4	8
6	Soft Biomaterials Based Flexible Artificial Synapse for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	8
7	Highly dispersed Fe-N _x active sites on Graphitic-N dominated porous carbon for synergetic catalysis of oxygen reduction reaction. <i>Carbon</i> , 2021, 171, 1-9.	10.3	46
8	A comprehensive review of carbons anode for potassium-ion battery: fast kinetic, structure stability and electrochemical. <i>Journal of Power Sources</i> , 2021, 484, 229244.	7.8	48
9	A Battery-Like Self-Selecting Biomemristor from Earth-Abundant Natural Biomaterials. <i>ACS Applied Bio Materials</i> , 2021, 4, 1976-1985.	4.6	30
10	Electrocatalytic Hydrolysis-Modulated Multistate Resistive Switching Behaviors in Memristors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000655.	1.8	5
11	Tuning Overall Water Splitting on an Electrodeposited NiCoFeP Films. <i>ChemElectroChem</i> , 2021, 8, 539-546.	3.4	14
12	Multistate resistive switching behaviors for neuromorphic computing in memristor. <i>Materials Today Advances</i> , 2021, 9, 100125.	5.2	33
13	A True Random Number Generator Based on Ionic Liquid Modulated Memristors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2380-2388.	4.3	17
14	Synaptic devices based neuromorphic computing applications in artificial intelligence. <i>Materials Today Physics</i> , 2021, 18, 100393.	6.0	110
15	Spanish-dagger shaped CoP blooms decorated N-doped carbon branch anode for high-performance lithium and sodium storage. <i>Electrochimica Acta</i> , 2021, 388, 138628.	5.2	23
16	Recent progress in electrochemical performance of carbon-based anodes for potassium-ion batteries based on first principles calculations. <i>Nanotechnology</i> , 2021, 32, 472003.	2.6	9
17	Catalyst design strategies for aqueous N ₂ electroreduction. <i>Applied Materials Today</i> , 2021, 25, 101184.	4.3	3
18	Raw cellulose/polyvinyl alcohol blending separators prepared by phase inversion for high-performance supercapacitors. <i>Nanotechnology</i> , 2021, 32, 095403.	2.6	14

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19	Adjustable Leaky-Integrate-and-fire neurons based on memristor-coupled capacitors. <i>Materials Today Advances</i> , 2021, 12, 100192.	5.2	15
20	Two-dimensional materials for electrochemical CO ₂ reduction: materials, in situ characterizations, and perspective. <i>Nanoscale</i> , 2021, 13, 19712-19739.	5.6	18
21	Single Lithium-Ion Conducting Solid Polymer Electrolyte with Superior Electrochemical Stability and Interfacial Compatibility for Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7249-7256.	8.0	88
22	Ultrafine Pt cluster and RuO ₂ heterojunction anode catalysts designed for ultra-low Pt-loading anion exchange membrane fuel cells. <i>Nanoscale Horizons</i> , 2020, 5, 316-324.	8.0	34
23	Probing Electrochemical Mg-Ion Activity in MgCr ₂ V ₄ O ₁₄ Spinel Oxides. <i>Chemistry of Materials</i> , 2020, 32, 1162-1171.	6.7	31
24	Twinned nanostructure of VO ₂ thin films grown on r-cut sapphire. <i>Physical Review B</i> , 2020, 102, .	8.2	37
25	Probing Mg Intercalation in the Tetragonal Tungsten Bronze Framework V ₄ Nb ₁₈ O ₅₅ . <i>Inorganic Chemistry</i> , 2020, 59, 9783-9797.	4.0	7
26	From Memristive Materials to Neural Networks. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54243-54265.	8.0	56
27	Engineering Porous Quasi-Spherical Fe ^N C Nanocatalysts with Robust Oxygen Reduction Performance for Zn-Air Battery Application. <i>ChemNanoMat</i> , 2020, 6, 1782-1788.	2.8	11
28	Passive Filters for Nonvolatile Storage Based on Capacitive-Coupled Memristive Effects in Nanolayered Organic-Inorganic Heterojunction Devices. <i>ACS Applied Nano Materials</i> , 2020, 3, 5045-5052.	5.0	18
29	Biomemristors as the next generation bioelectronics. <i>Nano Energy</i> , 2020, 75, 104938.	16.0	110
30	Non-zero-crossing current-voltage hysteresis behavior in memristive system. <i>Materials Today Advances</i> , 2020, 6, 100056.	5.2	37
31	CO ₂ transformation to multicarbon products by photocatalysis and electrocatalysis. <i>Materials Today Advances</i> , 2020, 6, 100071.	5.2	55
32	Semi-artificial Photosynthetic CO ₂ Reduction through Purple Membrane Re-engineering with Semiconductor. <i>Journal of the American Chemical Society</i> , 2019, 141, 11811-11815.	13.7	44
33	Light-Gated Synthetic Protocells for Plasmon-Enhanced Chemiosmotic Gradient Generation and ATP Synthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4896-4900.	13.8	41
34	Light-Gated Synthetic Protocells for Plasmon-Enhanced Chemiosmotic Gradient Generation and ATP Synthesis. <i>Angewandte Chemie</i> , 2019, 131, 4950-4954.	2.0	12
35	Graphene - MoS ₂ ensembles to reduce friction and wear in DLC-Steel contacts. <i>Carbon</i> , 2019, 146, 524-527.	10.3	108
36	Enhanced Structural, Electrochemical, and Electrode Kinetic Properties of Na _{0.5} Ni _{0.2} Mg _{0.1} Mn _{0.7} O ₂ Material for Sodium-Ion Battery Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22804-22810.	3.7	9

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37	Facet-dependent active sites of a single Cu ₂ O particle photocatalyst for CO ₂ reduction to methanol. <i>Nature Energy</i> , 2019, 4, 957-968.	39.5	349
38	In Situ Monitoring of the Growth of Nickel, Manganese, and Cobalt Hydroxide Precursors during Co-Precipitation Synthesis of Li-Ion Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3077-A3083.	2.9	18
39	Superstructures generated from truncated tetrahedral quantum dots. <i>Nature</i> , 2018, 561, 378-382.	27.8	143
40	Approaching the capacity limit of lithium cobalt oxide in lithium ion batteries via lanthanum and aluminium doping. <i>Nature Energy</i> , 2018, 3, 936-943.	39.5	531
41	In-situ Multimodal Imaging and Spectroscopy of Mg Electrodeposition at Electrode-Electrolyte Interfaces. <i>Scientific Reports</i> , 2017, 7, 42527.	3.3	20
42	Revealing mechanism responsible for structural reversibility of single-crystal VO ₂ nanorods upon lithiation/delithiation. <i>Nano Energy</i> , 2017, 36, 197-205.	16.0	65
43	Tailorable Exciton Transport in Doped Peptide- <i>Amphiphile Assemblies</i> . <i>ACS Nano</i> , 2017, 11, 9112-9118.	14.6	19
44	Visualizing Redox Dynamics of a Single Ag/AgCl Heterogeneous Nanocatalyst at Atomic Resolution. <i>ACS Nano</i> , 2016, 10, 3738-3746.	14.6	61
45	Dynamics of Single Fe Atoms in Graphene Vacancies. <i>Nano Letters</i> , 2013, 13, 1468-1475.	9.1	228
46	Structural Reconstruction of the Graphene Monovacancy. <i>ACS Nano</i> , 2013, 7, 4495-4502.	14.6	131
47	Spatial control of defect creation in graphene at the nanoscale. <i>Nature Communications</i> , 2012, 3, 1144.	12.8	305
48	Shape and property control of Mn doped ZnSe quantum dots: from branched to spherical. <i>Journal of Materials Chemistry</i> , 2012, 22, 417-424.	6.7	24
49	Synthesis and separation of dyes via Ni@reduced graphene oxide nanostructures. <i>Journal of Materials Chemistry</i> , 2012, 22, 1876-1883.	6.7	83
50	Large Single Crystals of Graphene on Melted Copper Using Chemical Vapor Deposition. <i>ACS Nano</i> , 2012, 6, 5010-5017.	14.6	218
51	Mechanical response of few-layer graphene films on copper foils. <i>Scripta Materialia</i> , 2012, 67, 273-276.	5.2	4
52	Aligned Rectangular Few-Layer Graphene Domains on Copper Surfaces. <i>Chemistry of Materials</i> , 2011, 23, 4543-4547.	6.7	51
53	Structural Distortions in Few-Layer Graphene Creases. <i>ACS Nano</i> , 2011, 5, 9984-9991.	14.6	29
54	Atomic Structure of Interconnected Few-Layer Graphene Domains. <i>ACS Nano</i> , 2011, 5, 6610-6618.	14.6	77

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55	Rational Synthesis of Silver Vanadium Oxides/Polyaniline Triaxial Nanowires with Enhanced Electrochemical Property. Nano Letters, 2011, 11, 4992-4996.	9.1	111
56	3-Aryl-3-(trifluoromethyl)diazirines as Versatile Photoactivated "Linker" Molecules for the Improved Covalent Modification of Graphitic and Carbon Nanotube Surfaces. Chemistry of Materials, 2011, 23, 3740-3751.	6.7	32
57	Reverse Micelle Synthesis of Co~Al LDHs: Control of Particle Size and Magnetic Properties. Chemistry of Materials, 2011, 23, 171-180.	6.7	92
58	Utilizing boron nitride sheets as thin supports for high resolution imaging of nanocrystals. Nanotechnology, 2011, 22, 195603.	2.6	20
59	Electron Paramagnetic Resonance Investigation of Purified Catalyst-free Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 7708-7716.	14.6	29