

Zhen-Yu Yang

List of Publications by Year in descending order

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80
papers

2,213
citations

185998

28
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243296

44
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81
docs citations

81
times ranked

2975
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid synthesis of MoS ₂ -PDA-Ag nanocomposites as heterogeneous catalysts and antimicrobial agents via microwave irradiation. <i>Applied Surface Science</i> , 2018, 459, 588-595.	3.1	170
2	Bioinspired functionalization of MXenes (Ti ₃ C ₂ TX) with amino acids for efficient removal of heavy metal ions. <i>Applied Surface Science</i> , 2020, 504, 144603.	3.1	141
3	Highly sulphophilic Ni-Fe bimetallic oxide nanoparticles anchored on carbon nanotubes enable effective immobilization and conversion of polysulfides for stable lithium-sulfur batteries. <i>Carbon</i> , 2019, 142, 32-39.	5.4	78
4	Vertical Stratification Engineering for Organic Bulk-Heterojunction Devices. <i>ACS Nano</i> , 2018, 12, 4440-4452.	7.3	77
5	Multi-channel FeP@C octahedra anchored on reduced graphene oxide nanosheet with efficient performance for lithium-ion batteries. <i>Carbon</i> , 2018, 139, 477-485.	5.4	75
6	Synthesis and electrochemical performance characterization of Ce-doped Li ₃ V ₂ (PO ₄) ₃ /C as cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 243, 33-39.	4.0	74
7	Efficient Polysulfide Redox Enabled by Lattice-Distorted Ni ₃ Fe Intermetallic Electrolyte-Modified Separator for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19572-19580.	4.0	72
8	Recyclable cobalt-molybdenum bimetallic carbide modified separator boosts the polysulfide adsorption-catalysis of lithium sulfur battery. <i>Science China Materials</i> , 2020, 63, 2443-2455.	3.5	69
9	Rational design of intertwined carbon nanotubes threaded porous CoP@carbon nanocubes as anode with superior lithium storage. <i>Carbon</i> , 2019, 142, 269-277.	5.4	58
10	Facile preparation of functionalized carbon nanotubes with tannins through mussel-inspired chemistry and their application in removal of methylene blue. <i>Journal of Molecular Liquids</i> , 2018, 271, 246-253.	2.3	55
11	A Chemical Blowing Strategy to Fabricate Biomass-Derived Carbon Aerogels with Graphene-Like Nanosheet Structures for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2019, 12, 2462-2470.	3.6	53
12	Facile Synthesis of a "Two-in-One" Sulfur Host Featuring Metallic-Cobalt-Embedded N-Doped Carbon Nanotubes for Efficient Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5968-5978.	4.0	52
13	Utilizing a graphene matrix to overcome the intrinsic limitations of red phosphorus as an anode material in lithium-ion batteries. <i>Carbon</i> , 2018, 127, 588-595.	5.4	50
14	In-built template synthesis of hierarchical porous carbon microcubes from biomass toward electrochemical energy storage. <i>Carbon</i> , 2019, 155, 1-8.	5.4	48
15	Manganese Monoxide/Biomass-Inherited Porous Carbon Nanostructure Composite Based on the High Water-Absorbent Agaric for Asymmetric Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4284-4294.	3.2	45
16	Integrating metallic cobalt and N/B heteroatoms into porous carbon nanosheets as efficient sulfur immobilizer for lithium-sulfur batteries. <i>Carbon</i> , 2020, 167, 918-929.	5.4	43
17	Agaric-assisted synthesis of core-shell MnO@C microcubes as super-high-volumetric-capacity anode for lithium-ion batteries. <i>Carbon</i> , 2020, 162, 36-45.	5.4	43
18	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19053-19057.	7.2	43

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19	Fused perylenebisimide-carbazole: new ladder chromophores with enhanced third-order nonlinear optical activities. <i>Chemical Communications</i> , 2011, 47, 10749.	2.2	42
20	Molten-Salt-Assisted Synthesis of Hierarchical Porous MnO@Biocarbon Composites as Promising Electrode Materials for Supercapacitors and Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 283-290.	3.6	42
21	Volatilizable and cost-effective quinone-based solid additives for improving photovoltaic performance and morphological stability in non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13049-13058.	5.2	41
22	Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26213-26221.	4.0	38
23	Subphthalocyanine Triimides: Solution Processable Bowl-Shaped Acceptors for Bulk Heterojunction Solar Cells. <i>Organic Letters</i> , 2019, 21, 3382-3386.	2.4	38
24	Covalent grafting interface engineering to prepare highly efficient and stable polypropylene/mesoporous SiO ₂ separator for Li-ion batteries. <i>Applied Surface Science</i> , 2021, 541, 148405.	3.1	37
25	Surface-seeding secondary growth for CoO@Co ₉ S ₈ P-N heterojunction hollow nanocube encapsulated into graphene as superior anode toward lithium ion storage. <i>Chemical Engineering Journal</i> , 2021, 425, 130648.	6.6	37
26	Scalable and rapid Far Infrared reduction of graphene oxide for high performance lithium ion batteries. <i>Energy Storage Materials</i> , 2015, 1, 9-16.	9.5	33
27	Ultrathin and Strong Electrospun Porous Fiber Separator. <i>ACS Applied Energy Materials</i> , 2018, 1, 4794-4803.	2.5	32
28	Cobalt-Tungsten Bimetallic Carbide Nanoparticles as Efficient Catalytic Material for High-Performance Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2019, 12, 4866-4873.	3.6	32
29	Self-templated synthesis of hollow hierarchical porous olive-like carbon toward universal high-performance alkali (Li, Na, K)-ion storage. <i>Carbon</i> , 2021, 174, 317-324.	5.4	30
30	Effects of the Particle Size of BaTiO ₃ Fillers on Fabrication and Dielectric Properties of BaTiO ₃ /Polymer/Al Films for Capacitor Energy-Storage Application. <i>Materials</i> , 2019, 12, 439.	1.3	28
31	Enhanced chemisorption and catalytic conversion of polysulfides via CoFe@NC nanocubes modified separator for superior Li-S batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133792.	6.6	26
32	Poly(vinylidene fluoride) Modified Commercial Paper as a Separator with Enhanced Thermal Stability and Electrolyte Affinity for Lithium-Ion Battery. <i>Energy and Environmental Materials</i> , 2021, 4, 664-670.	7.3	25
33	Sol-gel-assisted, fast and low-temperature synthesis of La-doped Li ₃ V ₂ (PO ₄) ₃ /C cathode materials for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 17924-17930.	1.7	24
34	Lithium Difluorophosphate as an Effective Additive for Improving the Initial Coulombic Efficiency of a Silicon Anode. <i>ChemElectroChem</i> , 2020, 7, 3743-3751.	1.7	24
35	Utilizing egg lecithin coating to improve the electrochemical performance of regenerated lithium iron phosphate. <i>Journal of Alloys and Compounds</i> , 2018, 745, 164-171.	2.8	23
36	A simple and recyclable molten-salt route to prepare superthin biocarbon sheets based on the high water-absorbent agaric for efficient lithium storage. <i>Carbon</i> , 2020, 157, 286-294.	5.4	23

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37	Renewable agaric-based hierarchically porous cocoon-like MnO/Carbon composites enable high-energy and high-rate Li-ion batteries. <i>Electrochimica Acta</i> , 2019, 322, 134757.	2.6	22
38	Constructing a directional ion acceleration layer at WO ₃ /ZnO heterointerface to enhance Li-ion transfer and storage. <i>Composites Part B: Engineering</i> , 2021, 205, 108511.	5.9	21
39	PDA modified commercial paper separator engineering with excellent lithiophilicity and mechanical strength for lithium metal batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 868, 114195.	1.9	20
40	Simultaneous Electrospinning and Electro spraying: Fabrication of a Carbon Nanofibre/MnO/Reduced Graphene Oxide Thin Film as a High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 51-61.	1.7	19
41	Areca-inspired core-shell structured MnO@C composite towards enhanced lithium-ion storage. <i>Carbon</i> , 2021, 184, 706-713.	5.4	19
42	High edge-nitrogen-doped porous carbon nanosheets with rapid pseudocapacitive mechanism for boosted potassium-ion storage. <i>Carbon</i> , 2022, 187, 302-309.	5.4	18
43	Novel agaric-derived olive-like yolk-shell structured MnO@C composites for superior lithium storage. <i>Chemical Communications</i> , 2020, 56, 13201-13204.	2.2	17
44	Wide Band-gap Two-dimension Conjugated Polymer Donors with Different Amounts of Chlorine Substitution on Alkoxyphenyl Conjugated Side Chains for Non-fullerene Polymer Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 797-805.	2.0	15
45	Needle-like cobalt phosphide arrays grown on carbon fiber cloth as a binder-free electrode with enhanced lithium storage performance. <i>Chinese Chemical Letters</i> , 2021, 32, 154-157.	4.8	15
46	Chemical vapor deposition-assisted fabrication of a graphene-wrapped MnO/carbon nanofibers membrane as a high-rate and long-life anode for lithium ion batteries. <i>RSC Advances</i> , 2017, 7, 50973-50980.	1.7	14
47	Ultrathin Nanosheet-Assembled Flowerlike NiSe ₂ Catalyst Boosts Sulfur Redox Reaction Kinetics for Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3431-3438.	2.5	14
48	Layer-by-Layer Solution-Processed Organic Solar Cells with Perylene Diimides as Acceptors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29876-29884.	4.0	14
49	In Situ Constructing a Stable Solid Electrolyte Interface by Multifunctional Electrolyte Additive to Stabilize Lithium Metal Anodes for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17959-17967.	4.0	14
50	Two for One: A Biomass Strategy for Simultaneous Synthesis of MnO ₂ Microcubes and Porous Carbon Microcubes for High Performance Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6333-6342.	3.2	13
51	Seleno twisted benzodiperylene diimides: facile synthesis and excellent electron acceptors for additive-free organic solar cells. <i>Chemical Communications</i> , 2019, 55, 703-706.	2.2	12
52	Interlayered MoS ₂ /rGO thin film for efficient lithium storage produced by electrospray deposition and far-infrared reduction. <i>Applied Surface Science</i> , 2020, 499, 143940.	3.1	12
53	Subnaphthalocyanine triimides: potential three-dimensional solution processable acceptors for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2186-2195.	2.7	12
54	Microwave-Assisted Solvent-Free Synthesis of Zeolitic Imidazolate Framework-67. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	1.5	10

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55	Effect of substituents of twisted benzodiperylene diimides on non-fullerene solar cells. <i>Organic Electronics</i> , 2017, 47, 72-78.	1.4	9
56	Tunable 2D tremella-derived carbon nanosheets with enhanced pseudocapacitance behavior for ultrafast potassium-ion storage. <i>Science China Technological Sciences</i> , 2021, 64, 2047-2056.	2.0	9
57	Synthesis of LiFe(1-x)V ₂ PO ₄ /C composite cathode materials with high performance via an aqueous solution "evaporation method. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 771-777.	1.2	8
58	Homogeneous precipitation synthesis and electrochemical performance of LiFePO ₄ /CNTs/C composites as advanced cathode materials for lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 107293-107298.	1.7	8
59	A facile electrospinning and electrospaying synchronization technique for preparation of high performance MnO/C@rGO composite anodes for lithium storage. <i>RSC Advances</i> , 2017, 7, 48294-48302.	1.7	8
60	1,2,4-Triazoline-3,5-dione substituted perylene diimides as near infrared acceptors for bulk heterojunction organic solar cells. <i>Dyes and Pigments</i> , 2021, 187, 109108.	2.0	8
61	A corn-inspired structure design for an iron oxide fiber/reduced graphene oxide composite as a high-performance anode material for Li-ion batteries. <i>RSC Advances</i> , 2017, 7, 44874-44883.	1.7	7
62	Aramid nanofiber reinforced cellulose paper for high-safety lithium-ion batteries. <i>Cellulose</i> , 2021, 28, 10579-10588.	2.4	7
63	Ultrafine SnO ₂ Nanoparticles Encapsulated in High-Conductivity Graphited Carbon Nanotubes As Anodes for High Electrochemistry Performance Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 7250-7257.	1.0	5
64	Superior electrocatalytic ORR performance of Melaleuca Leucadendron L barks derived hierarchical porous carbon with abundant atom-scale vacancies and multiheteroatoms. <i>Ceramics International</i> , 2022, 48, 11111-11123.	2.3	5
65	Intermolecular Interaction for Binary Mixtures of Propylene Carbonate with Acetonitrile, Dimethyl Carbonate, Diethyl Carbonate at Different Temperatures: Density and Viscosity. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 232, 127-151.	1.4	4
66	Volumetric and viscosity behavior studies of Et ₄ NBF ₄ , Pr ₄ NBF ₄ , and Bu ₄ NBF ₄ in acetonitrile solutions at T = (293.15 ± 0.05) K. <i>Journal of Molecular Liquids</i> , 2021, 330, 115630.	2.3	4
67	Effect of β-Cyclodextrin on the Micellization of Cetyltrimethylammonium in Aqueous Solution at High Temperature. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 1390-1394.	1.3	3
68	Cut-Price Fabrication of Free-standing Porous Carbon Nanofibers Film Electrode for Lithium-ion Batteries. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1016.	1.3	3
69	Facile construction of honeycomb-shaped porous carbon electrode materials using recyclable sodium chloride template for efficient lithium storage. <i>Science China Technological Sciences</i> , 2020, 63, 2123-2130.	2.0	3
70	Co-W bimetallic carbides as sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16577-16588.	1.1	3
71	Solution-processable silicon naphthalocyanine tetraimides as near infrared electron acceptors in organic solar cells. <i>Dyes and Pigments</i> , 2022, 197, 109846.	2.0	3
72	Microelectrode Electrochemistry in Microemulsion Systems. <i>Analytical Letters</i> , 2006, 39, 1801-1808.	1.0	2

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73	A tin(IV) oxides/carbon nanotubes composite with core-tubule structure as an anode material for high electrochemistry performance LIBs. RSC Advances, 2018, 8, 13186-13190.	1.7	2
74	Biomimetic surface functionalization of SiO ₂ microspheres with catecholamine-containing poly(itaconic acid) for removal of cationic dye. Surfaces and Interfaces, 2020, 21, 100644.	1.5	2
75	Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. Angewandte Chemie, 2021, 133, 19201-19205.	1.6	2
76	Spherical CoS ₂ with high load capacity as cathode carrier material of lithium sulfur batteries for improving the volume energy density. Journal of Materials Science: Materials in Electronics, 2022, 33, 14121-14133.	1.1	2
77	A dual-regulation strategy of B/N codoped CNT-encapsulated Ni nanoparticles as a catalytic host and separator coating promises high-performance Li-S batteries. Science China Technological Sciences, 2022, 65, 1567-1577.	2.0	2
78	Spectroscopic, Conductivity and Molecular Modeling Studies of the Inclusion Complex of TNDAB with Cucurbit[7]uril in Aqueous Solution. Zeitschrift Fur Physikalische Chemie, 2014, 228, 939-951.	1.4	1
79	Conductivity and Surface Tension Study for Cucurbit[7]uril Inclusion Complex of Cetyltrimethylammonium Chloride in Aqueous Solution. Journal of Dispersion Science and Technology, 2010, 31, 861-865.	1.3	0
80	A Novel Solvent-free Room Temperature Molten Salt Electrolyte Based on LiODFB and 2-Oxazolidinone for EDLCs. Zeitschrift Fur Physikalische Chemie, 2013, 227, 1723-1730.	1.4	0