

Xu Yang

List of Publications by Year in descending order

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papers

2,903
citations

236833

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168321

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docs citations

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times ranked

3419
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformation of Rusty Stainless Steel Meshes into Stable, Low-Cost, and Binder-Free Cathodes for High-Performance Potassium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7881-7885.	7.2	241
2	High-Energy-Density Flexible Potassium-Ion Battery Based on Patterned Electrodes. <i>Joule</i> , 2018, 2, 736-746.	11.7	199
3	Carbon-coating-increased working voltage and energy density towards an advanced Na ₃ V ₂ (PO ₄) ₂ F ₃ @C cathode in sodium-ion batteries. <i>Science Bulletin</i> , 2020, 65, 702-710.	4.3	197
4	Staging Na/K-ion de-/intercalation of graphite retrieved from spent Li-ion batteries: <i>in operando</i> X-ray diffraction studies and an advanced anode material for Na/K-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3575-3584.	15.6	189
5	Nanosheets-Assembled CuSe Crystal Pillar as a Stable and High-Power Anode for Sodium-Ion and Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900323.	10.2	187
6	Self-Supporting, Flexible, Additive-Free, and Scalable Hard Carbon Paper Self-Interwoven by 1D Microbelts: Superb Room/Low-Temperature Sodium Storage and Working Mechanism. <i>Advanced Materials</i> , 2019, 31, e1903125.	11.1	184
7	Carbon-coated Na ₃ V ₂ (PO ₄) ₂ F ₃ nanoparticles embedded in a mesoporous carbon matrix as a potential cathode material for sodium-ion batteries with superior rate capability and long-term cycle life. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21478-21485.	5.2	183
8	Reconstructed Orthorhombic V ₂ O ₅ Polyhedra for Fast Ion Diffusion in K-Ion Batteries. <i>CheM</i> , 2019, 5, 168-179.	5.8	174
9	Amorphous Tin-Based Composite Oxide: A High-Rate and Ultralong-Life Sodium-Ion Storage Material. <i>Advanced Energy Materials</i> , 2018, 8, 1701827.	10.2	113
10	From Crystalline to Amorphous: An Effective Avenue to Engineer High-Performance Electrode Materials for Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800639.	1.9	111
11	Moving to Aqueous Binder: A Valid Approach to Achieving High-Rate Capability and Long-Term Durability for Sodium-Ion Battery. <i>Advanced Science</i> , 2018, 5, 1700768.	5.6	82
12	Assembly of SnSe Nanoparticles Confined in Graphene for Enhanced Sodium-Ion Storage Performance. <i>Chemistry - A European Journal</i> , 2016, 22, 1445-1451.	1.7	77
13	Carbon and RuO ₂ Binary Surface Coating for the Li ₃ V ₂ (PO ₄) ₃ Cathode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12523-12530.	4.0	74
14	Isostructural and Multivalent Anion Substitution toward Improved Phosphate Cathode Materials for Sodium-Ion Batteries. <i>Small</i> , 2020, 16, e1907645.	5.2	69
15	Flexible Na/K-Ion Full Batteries from the Renewable Cotton Cloth-Derived Stable, Low-Cost, and Binder-Free Anode and Cathode. <i>Advanced Energy Materials</i> , 2019, 9, 1902056.	10.2	64
16	Nano-SnO ₂ Decorated Carbon Cloth as Flexible, Self-supporting and Additive-Free Anode for Sodium/Lithium-Ion Batteries. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 390-400.	1.5	61
17	Recent Progresses and Prospects of Cathode Materials for Non-aqueous Potassium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 2018, 1, 548-566.	13.1	48
18	Transformation of Rusty Stainless Steel Meshes into Stable, Low-Cost, and Binder-Free Cathodes for High-Performance Potassium-Ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 7989-7993.	1.6	46

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19	Robust three-dimensional carbon conductive network in a NaVPO ₄ F cathode used for superior high-rate and ultralong-lifespan sodium-ion full batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17454-17462.	5.2	45
20	Hydronium Ion Batteries: A Sustainable Energy Storage Solution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6378-6380.	7.2	43
21	Temperature-Dependent Electrochemical Properties and Electrode Kinetics of Na ₃ V ₂ (PO ₄) ₂ O ₂ F Cathode for Sodium-Ion Batteries with High Energy Density. <i>Chemistry - A European Journal</i> , 2020, 26, 7823-7830.	1.7	43
22	Entropy Stabilization Effect and Oxygen Vacancies Enabling Spinel Oxide Highly Reversible Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58674-58681.	4.0	42
23	Electrochemical properties and lithium-ion storage mechanism of LiCuVO ₄ as an intercalation anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 586-592.	5.2	40
24	Imine-Rich Poly(<i>o</i> -phenylenediamine) as High-Capacity Trifunctional Organic Electrode for Alkali-Ion Batteries. <i>CCS Chemistry</i> , 2019, 1, 365-372.	4.6	40
25	PVA/Poly(hexamethylene guanidine)/Gallic Acid Composite Hydrogel Films and Their Antibacterial Performance. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3867-3877.	2.0	29
26	P ₂ NaCo _{0.5} Mn _{0.5} O ₂ as a Positive Electrode Material for Sodium-Ion Batteries. <i>ChemPhysChem</i> , 2015, 16, 3408-3412.	1.0	28
27	Dendrite-free deposition on lithium anode toward long-life and high-stable Li//graphite dual-ion battery. <i>Chemical Communications</i> , 2019, 55, 8406-8409.	2.2	24
28	Electrochemical performance of LiMn ₂ O ₄ /LiFePO ₄ blend cathodes for lithium ion batteries. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 270-275.	1.3	23
29	Hybrid and Aqueous Li ⁺ Ni Metal Batteries. <i>CCS Chemistry</i> , 2021, 3, 2498-2508.	4.6	23
30	Utilization of biomass pectin polymer to build high efficiency electrode architectures with sturdy construction and fast charge transfer structure to boost sodium storage performance for NASICON-type cathode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1548-1555.	5.2	20
31	A sandwich nanocomposite composed of commercially available SnO and reduced graphene oxide as advanced anode materials for sodium-ion full batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 396-404.	3.0	18
32	Superfast and Reversible Thermoresponse of Poly(<i>N</i> -isopropylacrylamide) Hydrogels Grafted on Macroporous Poly(vinyl alcohol) Formaldehyde Sponges. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32747-32759.	4.0	17
33	Dual-Carbon Enhanced FeP Nanorods Vertically Grown on Carbon Nanotubes with Pseudocapacitance-Boosted Electrochemical Kinetics for Superior Lithium Storage. <i>Advanced Electronic Materials</i> , 2019, 5, 1900006.	2.6	16
34	Silane Functionalized Polyvinyl-Alcohol Formaldehyde Sponges on Fast Oil Absorption. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5309-5317.	2.0	16
35	High-capacity graphene-confined antimony nanoparticles as a promising anode material for potassium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155191.	2.8	15
36	Hydroniumionenbatterien: eine nachhaltige Lösung zur Energiespeicherung. <i>Angewandte Chemie</i> , 2017, 129, 6476-6478.	1.6	14

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37	Surface Grafting of a Quaternary Ammonium Salt on Macroporous Polyvinyl Alcohol-Formaldehyde Sponges and Their Highly Efficient Antibacterial Performance. ACS Applied Polymer Materials, 2020, 2, 4936-4942.	2.0	13
38	Graphene/Amorphous Carbon Restriction Structure for Stable and Longâ€Lifespan Antimony Anode in Potassiumâ€Ion Batteries. Chemistry - A European Journal, 2020, 26, 5818-5823.	1.7	13
39	A kinetics study on intercalation pseudocapacitance of layered TiS ₂ in K-ion batteries. Physical Chemistry Chemical Physics, 2019, 21, 25940-25944.	1.3	11
40	Electrochemical and thermal characterization of Li ₄ Ti ₅ O ₁₂ Li ₃ V ₂ (PO ₄) ₃ lithium ion battery. Solid State Ionics, 2019, 331, 43-48.	1.3	10
41	Sb&Sb ₂ O ₃ @C-enhanced flexible carbon cloth as an advanced self-supporting anode for sodium-ion batteries. New Journal of Chemistry, 2020, 44, 4719-4725.	1.4	10
42	Preparation of cationic polyelectrolyte grafted polyvinyl alcohol-formaldehyde macroporous hydrogels and their antibacterial properties. New Journal of Chemistry, 2019, 43, 14961-14971.	1.4	9
43	Hofmeister Effect on Thermo-responsive Poly(N-isopropylacrylamide) Hydrogels Grafted on Macroporous Poly(vinyl alcohol) Formaldehyde Sponges. Chinese Journal of Polymer Science (English) Tj ETQq1 1 02784314 rgBT /Overle	1.4	7
44	Three-dimensional superhydrophilic polyvinyl alcoholâ€formaldehyde composite sponges with suitable pore sizes for high efficiency emulsion separation. New Journal of Chemistry, 2021, 45, 17816-17826.	1.4	7
45	Effect of carbon dimensions on the electrochemical performance of SnSe ₂ anode for Na-ion batteries. Materials Letters, 2021, 284, 128989.	1.3	6
46	Preparation and Electrochemical Properties of Tinâ€Ironâ€Carbon Nanocomposite as the Anode of Lithiumâ€Ion Batteries. Chemistry - an Asian Journal, 2015, 10, 2460-2466.	1.7	5
47	Full pseudocapacitive behavior hypoxic graphene for ultrafast and ultrastable sodium storage. Journal of Materials Chemistry A, 2020, 8, 9911-9918.	5.2	5
48	Anode Materials: Nanosheetsâ€Assembled CuSe Crystal Pillar as a Stable and Highâ€Power Anode for Sodiumâ€Ion and Potassiumâ€Ion Batteries (Adv. Energy Mater. 20/2019). Advanced Energy Materials, 2019, 9, 1970073.	10.2	3
49	Sodiumâ€Ion Batteries: Selfâ€Supporting, Flexible, Additiveâ€Free, and Scalable Hard Carbon Paper Selfâ€Interwoven by 1D Microbelts: Superb Room/Lowâ€Temperature Sodium Storage and Working Mechanism (Adv. Mater. 40/2019). Advanced Materials, 2019, 31, 1970288.	11.1	2
50	Synthesis and structural characterization of <i>N</i>,<i>N</i>,<i>N</i>-trimethyl chitosan. Journal of Applied Polymer Science, 2021, 138, 51811.	1.3	2
51	A new research perspective: The application of potassiated alloy/carbon composite counter electrode in fundamental and practical research of K-ion batteries. Electrochimica Acta, 2022, 403, 139687.	2.6	2
52	Flexible Batteries: Flexible Na/Kâ€Ion Full Batteries from the Renewable Cotton Clothâ€Derived Stable, Lowâ€Cost, and Binderâ€Free Anode and Cathode (Adv. Energy Mater. 38/2019). Advanced Energy Materials, 2019, 9, 1970149.	10.2	1
53	Sodiumâ€Ion Batteries: Isostructural and Multivalent Anion Substitution toward Improved Phosphate Cathode Materials for Sodiumâ€Ion Batteries (Small 16/2020). Small, 2020, 16, 2070090.	5.2	0