

Yang Xu

List of Publications by Year in descending order

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papers

7,129
citations

66234

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docs citations

74
times ranked

9260
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly nitrogen doped carbon nanofibers with superior rate capability and cyclability for potassium ion batteries. <i>Nature Communications</i> , 2018, 9, 1720.	5.8	871
2	Potassium Prussian Blue Nanoparticles: A Low-Cost Cathode Material for Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1604307.	7.8	411
3	Growth of p-Type Hematite by Atomic Layer Deposition and Its Utilization for Improved Solar Water Splitting. <i>Journal of the American Chemical Society</i> , 2012, 134, 5508-5511.	6.6	368
4	Extended π -Conjugated System for Fast-Charge and -Discharge Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 3124-3130.	6.6	361
5	Novel Metastable Hexagonal MoO_3 Nanobelts: Synthesis, Photochromic, and Electrochromic Properties. <i>Chemistry of Materials</i> , 2009, 21, 5681-5690.	3.2	353
6	Nanocrystalline anatase TiO_2 : a new anode material for rechargeable sodium ion batteries. <i>Chemical Communications</i> , 2013, 49, 8973.	2.2	348
7	Large-scale highly ordered Sb nanorod array anodes with high capacity and rate capability for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 2954-2962.	15.6	294
8	Photoelectrodes Based upon Mo:BiVO_4 Inverse Opals for Photoelectrochemical Water Splitting. <i>ACS Nano</i> , 2014, 8, 7088-7098.	7.3	289
9	Organic materials for rechargeable sodium-ion batteries. <i>Materials Today</i> , 2018, 21, 60-78.	8.3	228
10	Enhancement of Sodium Ion Battery Performance Enabled by Oxygen Vacancies. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8768-8771.	7.2	180
11	Nanoarchitected Array Electrodes for Rechargeable Lithium-and Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502514.	10.2	169
12	Nearly Monodisperse CuInS_2 Hierarchical Microarchitectures for Photocatalytic H_2 Evolution under Visible Light. <i>Inorganic Chemistry</i> , 2009, 48, 4003-4009.	1.9	153
13	Vanadium pentoxide nanobelts and nanorolls: from controllable synthesis to investigation of their electrochemical properties and photocatalytic activities. <i>Nanotechnology</i> , 2006, 17, 2560-2566.	1.3	151
14	Manipulation of Disodium Rhodizonate: Factors for Fast-Charge and Fast-Discharge Sodium-Ion Batteries with Long-Term Cyclability. <i>Advanced Functional Materials</i> , 2016, 26, 1777-1786.	7.8	149
15	Highly Ordered Three-Dimensional Ni-TiO_2 Nanoarrays as Sodium Ion Battery Anodes. <i>Chemistry of Materials</i> , 2015, 27, 4274-4280.	3.2	140
16	N_2 Electroreduction to NH_3 by Selenium Vacancy-Rich ReSe_2 Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13320-13327.	7.2	127
17	Well-aligned molybdenum oxide nanorods on metal substrates: solution-based synthesis and their electrochemical capacitor application. <i>Journal of Materials Chemistry</i> , 2010, 20, 7135.	6.7	119
18	New-phase VO_2 micro/nanostructures: investigation of phase transformation and magnetic property. <i>New Journal of Chemistry</i> , 2012, 36, 619-625.	1.4	108

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19	Enhancing potassium-ion battery performance by defect and interlayer engineering. <i>Nanoscale Horizons</i> , 2019, 4, 202-207.	4.1	105
20	Amorphous TiO ₂ inverse opal anode for high-rate sodium ion batteries. <i>Nano Energy</i> , 2017, 31, 514-524.	8.2	103
21	Pillar effect on cyclability enhancement for aqueous lithium ion batteries: a new material of β -vanadium bronze M _{0.33} V ₂ O ₅ (M = Ag, Na) nanowires. <i>Journal of Materials Chemistry</i> , 2011, 21, 14466.	6.7	101
22	Self-Supported Metallic Nanopore Arrays with Highly Oriented Nanoporous Structures as Ideally Nanostructured Electrodes for Supercapacitor Applications. <i>Advanced Materials</i> , 2014, 26, 7654-7659.	11.1	97
23	Oxygen vacancies: Effective strategy to boost sodium storage of amorphous electrode materials. <i>Nano Energy</i> , 2017, 38, 304-312.	8.2	92
24	Topochemistry-Driven Synthesis of Transition-Metal Selenides with Weakened Van Der Waals Force to Enable 3D-Printed Na-Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	91
25	A Selectively Permeable Membrane for Enhancing Cyclability of Organic Sodium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 9182-9187.	11.1	77
26	Unexpected intercalation-dominated potassium storage in WS ₂ as a potassium-ion battery anode. <i>Nano Research</i> , 2019, 12, 2997-3002.	5.8	77
27	Plasma-Introduced Oxygen Defects Confined in Li ₄ Ti ₅ O ₁₂ Nanosheets for Boosting Lithium-Ion Diffusion. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17384-17392.	4.0	72
28	Polyaniline-Intercalated Molybdenum Oxide Nanocomposites: Simultaneous Synthesis and their Enhanced Application for Supercapacitor. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1505-1514.	1.7	71
29	Heterogeneous nanostructure array for electrochemical energy conversion and storage. <i>Nano Today</i> , 2018, 20, 33-57.	6.2	68
30	New-Phased Metastable V ₂ O ₃ Porous Urchinlike Micronanostructures: Facile Synthesis and Application in Aqueous Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2011, 17, 384-391.	1.7	66
31	Insights into the Crystallinity of Layer-Structured Transition Metal Dichalcogenides on Potassium Ion Battery Performance: A Case Study of Molybdenum Disulfide. <i>Small</i> , 2019, 15, e1900497.	5.2	62
32	From synthetic montroseite VOOH to topochemical paramontroseite VO ₂ and their applications in aqueous lithium ion batteries. <i>Dalton Transactions</i> , 2010, 39, 10729.	1.6	61
33	CuMnO ₂ -reduced graphene oxide nanocomposite as a free-standing electrode for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 375, 121966.	6.6	61
34	Self-Supported Bi ₂ MoO ₆ Nanowall for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23647-23653.	4.0	59
35	Ammonium Vanadium Bronze as a Potassium-Ion Battery Cathode with High Rate Capability and Cyclability. <i>Small Methods</i> , 2019, 3, 1800349.	4.6	58
36	Facile synthesis of hierarchical fern leaf-like Sb and its application as an additive-free anode for fast reversible Na-ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1749-1755.	5.2	55

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37	Understanding the Orderliness of Atomic Arrangement toward Enhanced Sodium Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1600448.	10.2	52
38	Progress and perspectives on alloying-type anode materials for advanced potassium-ion batteries. <i>Materials Today</i> , 2021, 48, 241-269.	8.3	51
39	Tuning the nitrogen-doping configuration in carbon materials via sulfur doping for ultrastable potassium ion storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16150-16159.	5.2	50
40	Three-Dimensional Plasmonic Nanostructure Design for Boosting Photoelectrochemical Activity. <i>ACS Nano</i> , 2017, 11, 7382-7389.	7.3	48
41	Bismuth oxychloride nanoflake assemblies as a new anode for potassium ion batteries. <i>Chemical Communications</i> , 2019, 55, 6507-6510.	2.2	47
42	Hierarchical Sb-Ni nanoarrays as robust binder-free anodes for high-performance sodium-ion half and full cells. <i>Nano Research</i> , 2017, 10, 3189-3201.	5.8	45
43	Oxygen-functionalized soft carbon nanofibers as high-performance cathode of K-ion hybrid capacitor. <i>Nano Energy</i> , 2020, 72, 104661.	8.2	42
44	Carrier Mobility-Dominated Gas Sensing: A Room-Temperature Gas-Sensing Mode for SnO ₂ Nanorod Array Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13895-13902.	4.0	41
45	MoS ₂ nanosheets with expanded interlayer spacing for enhanced sodium storage. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3099-3105.	3.0	41
46	Polyimide@Ketjenblack Composite: A Porous Organic Cathode for Fast Rechargeable Potassium-Ion Batteries. <i>Small</i> , 2020, 16, e2002953.	5.2	40
47	Selected-control solution-phase route to multiple-dendritic and cuboidal structures of PbSe. <i>Journal of Solid State Chemistry</i> , 2006, 179, 56-61.	1.4	33
48	The role of oxygen vacancies in metal oxides for rechargeable ion batteries. <i>Science China Chemistry</i> , 2021, 64, 1826-1853.	4.2	33
49	First investigation on charge-discharge reaction mechanism of aqueous lithium ion batteries: a new anode material of Ag ₂ V ₄ O ₁₁ nanobelts. <i>Dalton Transactions</i> , 2011, 40, 10751.	1.6	30
50	First-order metal-insulator transition and infrared identification of shape-controlled magnetite nanocrystals. <i>Nanotechnology</i> , 2011, 22, 485706.	1.3	29
51	Carbon materials for Na-S and K-S batteries. <i>Matter</i> , 2022, 5, 808-836.	5.0	27
52	Optimizing the Interlayer Spacing of Heteroatom-Doped Carbon Nanofibers toward Ultrahigh Potassium-Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9212-9221.	4.0	27
53	Intertwined Cu ₃ V ₂ O ₇ (OH) ₂ ·2H ₂ O nanowires/carbon fibers composite: A new anode with high rate capability for sodium-ion batteries. <i>Journal of Power Sources</i> , 2015, 294, 193-200.	4.0	26
54	Boosting the K ⁺ -adsorption capacity in edge-nitrogen doped hierarchically porous carbon spheres for ultrastable potassium ion battery anodes. <i>Nanoscale</i> , 2021, 13, 19634-19641.	2.8	22

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55	Enhanced Potassium Storage Capability of Two-Dimensional Transition-Metal Chalcogenides Enabled by a Collective Strategy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18838-18848.	4.0	21
56	Sensitive Gas-Sensing by Creating Adsorption Active Sites: Coating an SnO ₂ Layer on Triangle Arrays. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29092-29099.	4.0	20
57	Engineering metal selenides for sodium-and potassium-ion batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100555.	2.8	20
58	Highly efficient biosensors by using well-ordered ZnO/ZnS core/shell nanotube arrays. <i>Nanotechnology</i> , 2017, 28, 405501.	1.3	19
59	Electrical Conductivity Adjustment for Interface Capacitive-Like Storage in Sodium-Ion Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2101081.	7.8	19
60	N ₂ Electroreduction to NH ₃ by Selenium Vacancy-Rich ReSe ₂ Catalysis at an Abrupt Interface. <i>Angewandte Chemie</i> , 2020, 132, 13422-13429.	1.6	18
61	Effective Design Strategy of Small Bipolar Molecules through Fused Conjugation toward 2.5 V Based Redox Flow Batteries. <i>ACS Energy Letters</i> , 2022, 7, 1274-1283.	8.8	18
62	Squaraine organic crystals with strong dipole effect toward stable lithium-organic batteries. <i>Energy Storage Materials</i> , 2021, 41, 240-247.	9.5	16
63	Pyrrhotite Fe _{1-x} S microcubes as a new anode material in potassium-ion batteries. <i>Microsystems and Nanoengineering</i> , 2020, 6, 75.	3.4	12
64	Phenothiazine-based copolymer with redox functional backbones for organic battery cathode materials. <i>Materials Today Energy</i> , 2021, 21, 100812.	2.5	12
65	Morphology Control of CdSe Submicrostructures with High Hierarchy in Solution. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4349-4354.	1.0	9
66	Heterostructures with ZnSe Sheaths Coating on Carbon Submicrotubes: Preparation, Characterization, and Formation Mechanism. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14186-14191.	1.2	8
67	Vectorial Diffusion for Facile Solution-Processed Self-Assembly of Insoluble Semiconductors: A Case Study on Metal Phthalocyanines. <i>Chemistry - A European Journal</i> , 2014, 20, 10990-10995.	1.7	8
68	A Conjugated Polyimide-Based High-Performance Aqueous Potassium-Ion Asymmetric Supercapacitor. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200040.	2.0	8
69	Tuning the electronic conductivity of porous nitrogen-doped carbon nanofibers with graphene for high-performance potassium-ion storage. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3926-3933.	3.0	7
70	Interphases in the electrodes of potassium ion batteries. <i>JPhys Materials</i> , 2022, 5, 022001.	1.8	4
71	Hybrid nanostructures for electrochemical potassium storage. <i>Nanoscale Advances</i> , 2021, 3, 5442-5464.	2.2	2