

# Runtian Zheng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10985871/publications.pdf>

Version: 2024-02-01

59  
papers

2,359  
citations

230014

27  
h-index

242451

47  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interlayer gap widened TiS <sub>2</sub> for highly efficient sodium-ion storage. Journal of Materials Science and Technology, 2022, 107, 64-69.	5.6	50
2	Controllable C-N site assisting observable potential difference for homogeneous copper deposition in aqueous Cu-S batteries. Energy Storage Materials, 2022, 48, 74-81.	9.5	28
3	Hydrophilic bi-functional B-doped g-C <sub>3</sub> N <sub>4</sub> hierarchical architecture for excellent photocatalytic H <sub>2</sub> O <sub>2</sub> production and photoelectrochemical water splitting. Journal of Energy Chemistry, 2022, 70, 236-247.	7.1	66
4	Vacancy defect engineering in semiconductors for solar light-driven environmental remediation and sustainable energy production. , 2022, 1, 213-255.		46
5	Three-dimensionally ordered macroporous materials for photo/electrocatalytic sustainable energy conversion, solar cell and energy storage. EnergyChem, 2022, 4, 100081.	10.1	12
6	Emerging semiconductors and metal-organic-compounds-related photocatalysts for sustainable hydrogen peroxide production. Matter, 2022, 5, 2119-2167.	5.0	37
7	Controllable defect engineering enhanced bond strength for stable electrochemical energy storage. Nano Energy, 2021, 79, 105460.	8.2	76
8	Copper hexacyanoferrate as ultra-high rate host for aqueous ammonium ion storage. Chemical Engineering Journal, 2021, 421, 127767.	6.6	64
9	Cu <sub>2</sub> Nb <sub>34</sub> O <sub>87</sub> nanowires as a superior lithium storage host in advanced rechargeable batteries. Inorganic Chemistry Frontiers, 2021, 8, 444-451.	3.0	31
10	Insight into the Synergistic Effect of N, S Co-Doping for Carbon Coating Layer on Niobium Oxide Anodes with Ultra-Long Life. Advanced Functional Materials, 2021, 31, 2100311.	7.8	82
11	A TiSe <sub>2</sub> @Graphite Dual Ion Battery: Fast Na <sup>+</sup> Ion Insertion and Excellent Stability. Angewandte Chemie - International Edition, 2021, 60, 18430-18437.	7.2	102
12	A TiSe <sub>2</sub> @Graphite Dual Ion Battery: Fast Na <sup>+</sup> Ion Insertion and Excellent Stability. Angewandte Chemie, 2021, 133, 18578-18585.	1.6	10
13	Frontispiece: A TiSe <sub>2</sub> @Graphite Dual Ion Battery: Fast Na <sup>+</sup> Ion Insertion and Excellent Stability. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
14	Frontispiz: A TiSe <sub>2</sub> @Graphite Dual Ion Battery: Fast Na <sup>+</sup> Ion Insertion and Excellent Stability. Angewandte Chemie, 2021, 133, .	1.6	0
15	Insight into anion storage batteries: Materials, properties and challenges. Energy Storage Materials, 2021, 42, 42-67.	9.5	28
16	An anode-free aqueous dual-ion battery. Sustainable Energy and Fuels, 2021, 5, 3298-3302.	2.5	9
17	Metal selenides for high performance sodium ion batteries. Chemical Engineering Journal, 2020, 380, 122557.	6.6	154
18	Rational construction and decoration of Fe <sub>0.5</sub> Nb <sub>24.5</sub> O <sub>62</sub> @C nanowires as superior anode material for lithium storage. Chemical Engineering Journal, 2020, 384, 123314.	6.6	16

#	ARTICLE	IF	CITATIONS
19	The journey of lithium ions in the lattice of $\text{PNb}_9\text{O}_{25}$ . <i>Materials Chemistry Frontiers</i> , 2020, 4, 631-637.	3.2	15
20	Synthesis and characterization of $\text{GaNb}_{11}\text{O}_{29}$ @C for high-performance lithium-ion battery. <i>Ceramics International</i> , 2020, 46, 5913-5919.	2.3	7
21	$\text{PNb}_9\text{O}_{25}$ nanofiber as a high-voltage anode material for advanced lithium ions batteries. <i>Journal of Materiomics</i> , 2020, 6, 781-787.	2.8	8
22	Carbon layer on the surface of $\text{PNb}_9\text{O}_{25}$ nanowires offers lots of areas for charge transfer. <i>Ceramics International</i> , 2020, 46, 29073-29079.	2.3	0
23	Heteroatom-doped carbon-based materials for lithium and sodium ion batteries. <i>Energy Storage Materials</i> , 2020, 32, 65-90.	9.5	225
24	Boosting Coulombic Efficiency of Conversion Reaction Anodes for Potassium Ion Batteries via Confinement Effect. <i>Advanced Functional Materials</i> , 2020, 30, 2007712.	7.8	68
25	Micronano Porous $\text{Mo}_2\text{C}$ @C Nanorods Composites as Robust Anodes for Li Ion Battery. <i>Energy Technology</i> , 2020, 8, 2070065.	1.8	2
26	$\text{Na}_2\text{Li}_2\text{Ti}_6\text{O}_{14}$ nanowires as ultra-long cycling performance anode material for lithium ion storage. <i>Ceramics International</i> , 2020, 46, 15699-15704.	2.3	10
27	Micronano Porous $\text{Mo}_2\text{C}$ @C Nanorods Composites as Robust Anodes for Li Ion Battery. <i>Energy Technology</i> , 2020, 8, 2000189.	1.8	2
28	Commercially available Prussian blue get energetic in aqueous K-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 394, 124923.	6.6	61
29	Electrochemical uptake/release of lithium in $\text{GaNb}_{11}\text{O}_{29}$ nanowires as anode material for rechargeable lithium ion battery. <i>Ceramics International</i> , 2020, 46, 20537-20544.	2.3	5
30	$\text{BaNb}_3.6\text{O}_{10}$ nanowires with superior electrochemical performance towards ultrafast and highly stable lithium storage. <i>Energy Storage Materials</i> , 2019, 16, 400-410.	9.5	43
31	Constructing hierarchical $\text{MnO}_2/\text{Co}_3\text{O}_4$ heterostructure hollow spheres for high-performance Li-Ion batteries. <i>Journal of Power Sources</i> , 2019, 437, 226904.	4.0	33
32	Commercially available InSb as a high-performance anode for secondary batteries towards superior lithium storage. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2668-2674.	2.5	13
33	Review on niobium-based chalcogenides for electrochemical energy storage devices: Application and progress. <i>Nano Energy</i> , 2019, 65, 104049.	8.2	46
34	$\text{FeNb}_{11}\text{O}_{29}$ nanotubes: Superior electrochemical energy storage performance and operating mechanism. <i>Nano Energy</i> , 2019, 58, 399-409.	8.2	83
35	Fabrication of one-dimensional architecture $\text{Bi}_5\text{Nb}_3\text{O}_{15}$ nanowires by electrospinning for lithium-ion batteries with enhanced electrochemical performance. <i>Electrochimica Acta</i> , 2019, 299, 894-901.	2.6	16
36	Facile synthesis of $\text{Y}_2(\text{MoO}_4)_3$ nanowires as anode materials towards enhanced lithium storage performance. <i>Journal of Electroanalytical Chemistry</i> , 2019, 841, 111-118.	1.9	8

#	ARTICLE	IF	CITATIONS
37	VNb <sub>9</sub> O <sub>25</sub> nanowires with superior electrochemical property towards lithium ion batteries. <i>Ceramics International</i> , 2019, 45, 18111-18114.	2.3	16
38	Observation of ZrNb <sub>14</sub> O <sub>37</sub> Nanowires as a Lithium Container via In Situ and Ex Situ Techniques for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22429-22438.	4.0	23
39	Preparation of TiNb <sub>6</sub> O <sub>17</sub> nanospheres as high-performance anode candidates for lithium-ion storage. <i>Chemical Engineering Journal</i> , 2019, 374, 937-946.	6.6	37
40	Lab-Scale In Situ X-Ray Diffraction Technique for Different Battery Systems: Designs, Applications, and Perspectives. <i>Small Methods</i> , 2019, 3, 1900119.	4.6	39
41	In situ characterization of LiY(WO <sub>4</sub> ) <sub>2</sub> nanotubes for electrochemical energy storage. <i>Ceramics International</i> , 2019, 45, 11812-11818.	2.3	1
42	Constructing Hollow Nanofibers To Boost Electrochemical Performance: Insight into Kinetics and the Li Storage Mechanism for CrNb <sub>49</sub> O <sub>124</sub> . <i>ACS Applied Energy Materials</i> , 2019, 2, 2672-2679.	2.5	12
43	Development status and future prospect of non-aqueous potassium ion batteries for large scale energy storage. <i>Nano Energy</i> , 2019, 60, 340-361.	8.2	146
44	HO.92K0.08TiNbO <sub>5</sub> Nanowires Enabling High-Performance Lithium-Ion Uptake. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9136-9143.	4.0	13
45	AgNb <sub>13</sub> O <sub>33</sub> : A new anode material with high energy storage performance. <i>Chemical Engineering Journal</i> , 2019, 366, 246-253.	6.6	13
46	Pretreated commercial TiSe <sub>2</sub> as an insertion-type potassium container for constructing a Rocking-Chair-type potassium ion batteries. <i>Energy Storage Materials</i> , 2019, 22, 154-159.	9.5	71
47	LiY(MoO <sub>4</sub> ) <sub>2</sub> nanotubes: Novel zero-strain anode for electrochemical energy storage. <i>Energy Storage Materials</i> , 2019, 21, 297-307.	9.5	27
48	An overview and future perspectives of aqueous rechargeable polyvalent ion batteries. <i>Energy Storage Materials</i> , 2019, 18, 68-91.	9.5	113
49	K <sub>2</sub> Nb <sub>8</sub> O <sub>21</sub> nanotubes with superior electrochemical performance for ultrastable lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8620-8632.	5.2	51
50	Electrospinning of hierarchical structure Nd <sub>10</sub> W <sub>22</sub> O <sub>81</sub> nanowires as high performance lithium storage anode for rechargeable batteries. <i>Ceramics International</i> , 2018, 44, 4080-4087.	2.3	2
51	Carbon-coated Bi <sub>5</sub> Nb <sub>3</sub> O <sub>15</sub> as anode material in rechargeable batteries for enhanced lithium storage. <i>Ceramics International</i> , 2018, 44, 11505-11511.	2.3	13
52	Ultrathin W <sub>9</sub> Nb <sub>8</sub> O <sub>47</sub> nanofibers modified with thermal NH <sub>3</sub> for superior electrochemical energy storage. <i>Energy Storage Materials</i> , 2018, 14, 159-168.	9.5	55
53	Highly efficient lithium container based on non-Wadsley-Roth structure Nb <sub>18</sub> W <sub>16</sub> O <sub>93</sub> nanowires for electrochemical energy storage. <i>Electrochimica Acta</i> , 2018, 292, 331-338.	2.6	49
54	Deep insights into kinetics and structural evolution of nitrogen-doped carbon coated TiNb <sub>24</sub> O <sub>62</sub> nanowires as high-performance lithium container. <i>Nano Energy</i> , 2018, 54, 227-237.	8.2	96

#	ARTICLE	IF	CITATIONS
55	Ultra-long BiNbO <sub>4</sub> nanowires with hierarchical architecture exhibiting reversible lithium storage. Journal of Electroanalytical Chemistry, 2018, 823, 245-252.	1.9	10
56	Lithium, sodium and potassium storage behaviors of Pb <sub>3</sub> Nb <sub>4</sub> O <sub>13</sub> nanowires for rechargeable batteries. Ceramics International, 2018, 44, 17094-17101.	2.3	16
57	Nano-structured GeNb <sub>18</sub> O <sub>47</sub> as novel anode host with superior lithium storage performance. Electrochimica Acta, 2018, 282, 634-641.	2.6	19
58	K <sub>6</sub> Nb <sub>10.8</sub> O <sub>30</sub> groove nanobelts as high performance lithium-ion battery anode towards long-life energy storage. Nano Energy, 2018, 52, 192-202.	8.2	57
59	Rapid and durable electrochemical storage behavior enabled by V <sub>4</sub> Nb <sub>18</sub> O <sub>55</sub> beaded nanofibers: a joint theoretical and experimental study. Journal of Materials Chemistry A, 2018, 6, 17389-17400.	5.2	24