

# William Jr W Manalastas

## List of Publications by Citations

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28

papers

1,562

citations

17

h-index

30

g-index

30

ext. papers

2,117

ext. citations

9

avg, IF

5.22

L-index

#	Paper	IF	Citations
28	Investigating the Dendritic Growth during Full Cell Cycling of Garnet Electrolyte in Direct Contact with Li Metal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3808-3816	9.5	227
27	Atmosphere Controlled Processing of Ga-Substituted Garnets for High Li-Ion Conductivity Ceramics. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3610-3617	9.6	218
26	High-performance flexible quasi-solid-state zinc-ion batteries with layer-expanded vanadium oxide cathode and zinc/stainless steel mesh composite anode. <i>Nano Energy</i> , <b>2019</b> , 62, 94-102	17.1	127
25	Dual Substitution Strategy to Enhance Li <sup>+</sup> Ionic Conductivity in Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Solid Electrolyte. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1769-1778	9.6	117
24	Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1800111	5.9	104
23	Effects of Gallium Doping in Garnet-Type Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Solid Electrolytes. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2821-2831	9.6	88
22	Mechanical failure of garnet electrolytes during Li electrodeposition observed by in-operando microscopy. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 287-293	8.9	88
21	Modulation of Single Atomic Co and Fe Sites on Hollow Carbon Nanospheres as Oxygen Electrodes for Rechargeable Zn-Air Batteries.. <i>Small Methods</i> , <b>2021</b> , 5, e2000751	12.8	75
20	Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7213-7219	16.4	68
19	Lignin@Nafion Membranes Forming Zn Solid-Electrolyte Interfaces Enhance the Cycle Life for Rechargeable Zinc-Ion Batteries. <i>ChemSusChem</i> , <b>2019</b> , 12, 4889-4900	8.3	64
18	Emerging rechargeable aqueous aluminum ion battery: Status, challenges, and outlooks. <i>Nano Materials Science</i> , <b>2020</b> , 2, 248-263	10.2	61
17	Layered VOPO <sub>4</sub> as a Cathode Material for Rechargeable Zinc-Ion Battery: Effect of Polypyrrole Intercalation in the Host and Water Concentration in the Electrolyte. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8667-8674	6.1	50
16	Undesired Reactions in Aqueous Rechargeable Zinc Ion Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1773-1785	20.1	48
15	Water in Rechargeable Multivalent-Ion Batteries: An Electrochemical Pandora's Box. <i>ChemSusChem</i> , <b>2019</b> , 12, 379-396	8.3	48
14	Investigating FeVO <sub>4</sub> as a cathode material for aqueous aluminum-ion battery. <i>Journal of Power Sources</i> , <b>2019</b> , 426, 151-161	8.9	43
13	Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7289-7295	3.6	22
12	Insights into the Lithium-Ion Conduction Mechanism of Garnet-Type Cubic Li <sub>5</sub> La <sub>3</sub> Ta <sub>2</sub> O <sub>12</sub> by ab-Initio Calculations. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20783-20791	3.8	17

11	Rechargeable Al-Metal Aqueous Battery Using NaMnHCF as a Cathode: Investigating the Role of Coated-Al Anode Treatments for Superior Battery Cycling Performance. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8627-8635	6.1	17
10	Chelating Ligands as Electrolyte Solvent for Rechargeable Zinc-Ion Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1330-1340	9.6	16
9	Surface-Modified Hollow Ternary NiCoP Catalysts for Efficient Electrochemical Water Splitting and Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39798-39808	9.5	13
8	Hydrogen-Bonding Interactions in Hybrid Aqueous/Nonaqueous Electrolytes Enable Low-Cost and Long-Lifespan Sodium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 22862-22872	9.5	12
7	Batteries: Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook (Adv. Sustainable Syst. 1/2019). <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1970004	5.9	9
6	Multiscalar Investigation of FeVO <sub>4</sub> Conversion Cathode for a Low Concentration Zn(CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> Rechargeable Zn-Ion Aqueous Battery. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 619-630	5.6	8
5	Mesoporous Titanium Oxynitride Monoliths from Block Copolymer-Directed Self-Assembly of Metal-Urea Additives. <i>Langmuir</i> , <b>2020</b> , 36, 10803-10810	4	8
4	Enhancing the polymer electrolyte  metal interface on high-voltage solid-state batteries with Li-based additives inspired by the surface chemistry of Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> . <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 2352-2361	13	2
3	Enabling Al-metal anodes for aqueous electrochemical cells by using low-cost eutectic mixtures as artificial protective interphase. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 134742	14.7	2
2	Ultrafast Crystallization of Ordered Mesoporous Metal Oxides and Carbon from Block Copolymer Self-Assembly and Joule Heating. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 151	4.6	2
1	Trans-influence of nitrogen- and sulfur-containing ligands in trans-platinum complexes: a density functional theory study. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 064210	1.8	1