# William Jr W Manalastas

## List of Publications by Year in Descending Order



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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 | Enhancing the polymer electrolyte□i metal interface on high-voltage solid-state batteries with Li-based additives inspired by the surface chemistry of Li7La3Zr2O12. *Journal of Materials Chemistry A*, **2022**, 10, 2352-2361 | 13 | 2 |
| 27 | Enabling Al-metal anodes for aqueous electrochemical cells by using low-cost eutectic mixtures as artificial protective interphase. *Chemical Engineering Journal*, **2022**, 435, 134742 | 14.7 | 2 |
| 26 | Undesired Reactions in Aqueous Rechargeable Zinc Ion Batteries. *ACS Energy Letters*, **2021**, 6, 1773-1785 | 20.1 | 48 |
| 25 | Modulation of Single Atomic Co and Fe Sites on Hollow Carbon Nanospheres as Oxygen Electrodes for Rechargeable Zn-Air Batteries.. *Small Methods*, **2021**, 5, e2000751 | 12.8 | 75 |
| 24 | Chelating Ligands as Electrolyte Solvent for Rechargeable Zinc-Ion Batteries. *Chemistry of Materials* , **2021**, 33, 1330-1340 | 9.6 | 16 |
| 23 | Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. *Angewandte Chemie*, **2021**, 133, 7289-7295 | 3.6 | 22 |
| 22 | Anion Texturing Towards Dendrite-Free Zn Anode for Aqueous Rechargeable Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 7213-7219 | 16.4 | 68 |
| 21 | Multiscalar Investigation of FeVO4 Conversion Cathode for a Low Concentration Zn(CF3SO3)2 Rechargeable Zn-Ion Aqueous Battery. *Batteries and Supercaps*, **2020**, 3, 619-630 | 5.6 | 8 |
| 20 | Hydrogen-Bonding Interactions in Hybrid Aqueous/Nonaqueous Electrolytes Enable Low-Cost and Long-Lifespan Sodium-Ion Storage. *ACS Applied Materials & Interfaces*, **2020**, 12, 22862-22872 | 9.5 | 12 |
| 19 | Emerging rechargeable aqueous aluminum ion battery: Status, challenges, and outlooks. *Nano Materials Science*, **2020**, 2, 248-263 | 10.2 | 61 |
| 18 | Mesoporous Titanium Oxynitride Monoliths from Block Copolymer-Directed Self-Assembly of Metal-Urea Additives. *Langmuir*, **2020**, 36, 10803-10810 | 4 | 8 |
| 17 | Rechargeable Al-Metal Aqueous Battery Using NaMnHCF as a Cathode: Investigating the Role of Coated-Al Anode Treatments for Superior Battery Cycling Performance. *ACS Applied Energy Materials*, **2020**, 3, 8627-8635 | 6.1 | 17 |
| 16 | High-performance flexible quasi-solid-state zinc-ion batteries with layer-expanded vanadium oxide cathode and zinc/stainless steel mesh composite anode. *Nano Energy*, **2019**, 62, 94-102 | 17.1 | 127 |
| 15 | Investigating FeVO4 as a cathode material for aqueous aluminum-ion battery. *Journal of Power Sources*, **2019**, 426, 151-161 | 8.9 | 43 |
| 14 | Surface-Modified Hollow Ternary NiCoP Catalysts for Efficient Electrochemical Water Splitting and Energy Storage. *ACS Applied Materials & Interfaces*, **2019**, 11, 39798-39808 | 9.5 | 13 |
| 13 | Lignin@Nafion Membranes Forming Zn Solid-Electrolyte Interfaces Enhance the Cycle Life for Rechargeable Zinc-Ion Batteries. *ChemSusChem*, **2019**, 12, 4889-4900 | 8.3 | 64 |
| 12 | Layered VOPO4 as a Cathode Material for Rechargeable Zinc-Ion Battery: Effect of Polypyrrole Intercalation in the Host and Water Concentration in the Electrolyte. *ACS Applied Energy Materials*, **2019**, 2, 8667-8674 | 6.1 | 50 |

# List of Publications

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|---|---|---|---|
| 11 | Water in Rechargeable Multivalent-Ion Batteries: An Electrochemical Pandora's Box. *ChemSusChem*, **2019**, 12, 379-396 | 8.3 | 48 |
| 10 | Batteries: Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook (Adv. Sustainable Syst. 1/2019). *Advanced Sustainable Systems*, **2019**, 3, 1970004 | 5.9 | 9 |
| 9 | Progress in Rechargeable Aqueous Zinc- and Aluminum-Ion Battery Electrodes: Challenges and Outlook. *Advanced Sustainable Systems*, **2019**, 3, 1800111 | 5.9 | 104 |
| 8 | Mechanical failure of garnet electrolytes during Li electrodeposition observed by in-operando microscopy. *Journal of Power Sources*, **2019**, 412, 287-293 | 8.9 | 88 |
| 7 | Dual Substitution Strategy to Enhance Li+ Ionic Conductivity in Li7La3Zr2O12 Solid Electrolyte. *Chemistry of Materials*, **2017**, 29, 1769-1778 | 9.6 | 117 |
| 6 | Investigating the Dendritic Growth during Full Cell Cycling of Garnet Electrolyte in Direct Contact with Li Metal. *ACS Applied Materials & Interfaces*, **2017**, 9, 3808-3816 | 9.5 | 227 |
| 5 | Effects of Gallium Doping in Garnet-Type Li7La3Zr2O12 Solid Electrolytes. *Chemistry of Materials*, **2015**, 27, 2821-2831 | 9.6 | 88 |
| 4 | Insights into the Lithium-Ion Conduction Mechanism of Garnet-Type Cubic Li5La3Ta2O12 by ab-Initio Calculations. *Journal of Physical Chemistry C*, **2015**, 119, 20783-20791 | 3.8 | 17 |
| 3 | Atmosphere Controlled Processing of Ga-Substituted Garnets for High Li-Ion Conductivity Ceramics. *Chemistry of Materials*, **2014**, 26, 3610-3617 | 9.6 | 218 |
| 2 | Trans-influence of nitrogen- and sulfur-containing ligands intrans-platinum complexes: a density functional theory study. *Journal of Physics Condensed Matter*, **2009**, 21, 064210 | 1.8 | 1 |
| 1 | Ultrafast Crystallization of Ordered Mesoporous Metal Oxides and Carbon from Block Copolymer Self-Assembly and Joule Heating. *Advanced Materials Interfaces*,2200151 | 4.6 | 2 |