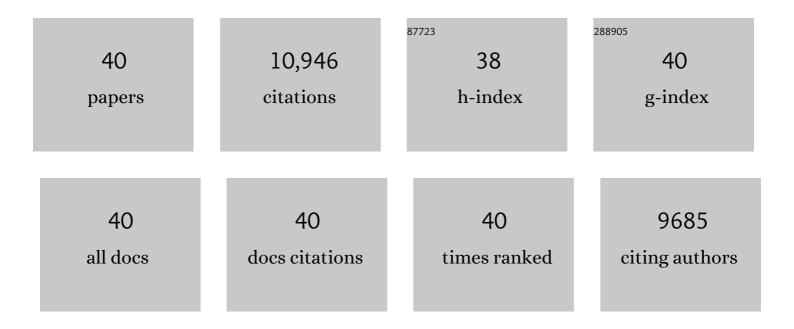
## Allen Pei

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Nanoscale Nucleation and Growth of Electrodeposited Lithium Metal. Nano Letters, 2017, 17, 1132-1139.   | 4.5  | 1,081     |
| 2  | Atomic structure of sensitive battery materials and interfaces revealed by cryo–electron microscopy.<br>Science, 2017, 358, 506-510.                                  | 6.0  | 1,039     |
| 3  | Materials for lithium-ion battery safety. Science Advances, 2018, 4, eaas9820.  | 4.7  | 958       |
| 4  | Lithium Metal Anodes with an Adaptive "Solid-Liquid―Interfacial Protective Layer. Journal of the<br>American Chemical Society, 2017, 139, 4815-4820.                  | 6.6  | 460       |
| 5  | Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. Journal of the American Chemical Society, 2017, 139, 11550-11558.                    | 6.6  | 398       |
| 6  | Highly Efficient Light-Driven TiO <sub>2</sub> –Au Janus Micromotors. ACS Nano, 2016, 10, 839-844.  | 7.3  | 392       |
| 7  | Stabilizing Lithium Metal Anodes by Uniform Li-Ion Flux Distribution in Nanochannel Confinement.<br>Journal of the American Chemical Society, 2016, 138, 15443-15450. | 6.6  | 386       |
| 8  | Solubility-mediated sustained release enabling nitrate additive in carbonate electrolytes for stable<br>lithium metal anode. Nature Communications, 2018, 9, 3656.    | 5.8  | 371       |
| 9  | Efficient electrocatalytic CO2 reduction on a three-phase interface. Nature Catalysis, 2018, 1, 592-600.  | 16.1 | 336       |
| 10 | Improving cyclability of Li metal batteries at elevated temperatures and its origin revealed by cryo-electron microscopy. Nature Energy, 2019, 4, 664-670.            | 19.8 | 336       |
| 11 | Seawater-driven magnesium based Janus micromotors for environmental remediation. Nanoscale, 2013, 5, 4696.  | 2.8  | 333       |
| 12 | Uniform High Ionic Conducting Lithium Sulfide Protection Layer for Stable Lithium Metal Anode.<br>Advanced Energy Materials, 2019, 9, 1900858.                        | 10.2 | 333       |
| 13 | Water-Driven Micromotors. ACS Nano, 2012, 6, 8432-8438.   | 7.3  | 326       |
| 14 | Effects of Polymer Coatings on Electrodeposited Lithium Metal. Journal of the American Chemical<br>Society, 2018, 140, 11735-11744.                                   | 6.6  | 307       |
| 15 | Catalytic Iridium-Based Janus Micromotors Powered by Ultralow Levels of Chemical Fuels. Journal of the American Chemical Society, 2014, 136, 2276-2279.               | 6.6  | 300       |
| 16 | Correlating Structure and Function of Battery Interphases at Atomic Resolution Using Cryoelectron<br>Microscopy. Joule, 2018, 2, 2167-2177.                           | 11.7 | 284       |
| 17 | High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. ACS Energy Letters, 2016, 1, 1247-1255.                                   | 8.8  | 281       |
| 18 | Stitching h-BN by atomic layer deposition of LiF as a stable interface for lithium metal anode. Science<br>Advances, 2017, 3, eaao3170.                               | 4.7  | 252       |

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|----|--|------|-----------|
| 19 | Wrinkled Graphene Cages as Hosts for High-Capacity Li Metal Anodes Shown by Cryogenic Electron<br>Microscopy. Nano Letters, 2019, 19, 1326-1335.   | 4.5  | 193       |
| 20 | Organized Self-Assembly of Janus Micromotors with Hydrophobic Hemispheres. Journal of the<br>American Chemical Society, 2013, 135, 998-1001.   | 6.6  | 189       |
| 21 | Strong texturing of lithium metal in batteries. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12138-12143.   | 3.3  | 188       |
| 22 | Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. Nature Chemistry, 2019, 11,<br>382-389.   | 6.6  | 180       |
| 23 | Fast lithium growth and short circuit induced by localized-temperature hotspots in lithium batteries.<br>Nature Communications, 2019, 10, 2067.  | 5.8  | 177       |
| 24 | A Dynamic, Electrolyte-Blocking, and Single-Ion-Conductive Network for Stable Lithium-Metal Anodes.<br>Joule, 2019, 3, 2761-2776.  | 11.7 | 176       |
| 25 | An Ultrastrong Double-Layer Nanodiamond Interface for Stable Lithium Metal Anodes. Joule, 2018, 2,<br>1595-1609.   | 11.7 | 155       |
| 26 | Engineering stable interfaces for three-dimensional lithium metal anodes. Science Advances, 2018, 4, eaat5168.   | 4.7  | 153       |
| 27 | Polymer-based tubular microbots: role of composition and preparation. Nanoscale, 2012, 4, 2447.  | 2.8  | 150       |
| 28 | Lithium metal stripping beneath the solid electrolyte interphase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8529-8534.                                   | 3.3  | 150       |
| 29 | Tortuosity Effects in Lithium-Metal Host Anodes. Joule, 2020, 4, 938-952.  | 11.7 | 150       |
| 30 | Nanomotor lithography. Nature Communications, 2014, 5, 5026.   | 5.8  | 141       |
| 31 | Breathing-Mimicking Electrocatalysis for Oxygen Evolution and Reduction. Joule, 2019, 3, 557-569.  | 11.7 | 132       |
| 32 | Nanoscale perspective: Materials designs and understandings in lithium metal anodes. Nano Research, 2017, 10, 4003-4026.   | 5.8  | 130       |
| 33 | Underpotential lithium plating on graphite anodes caused by temperature heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29453-29461.            | 3.3  | 94        |
| 34 | Transient Voltammetry with Ultramicroelectrodes Reveals the Electron Transfer Kinetics of Lithium<br>Metal Anodes. ACS Energy Letters, 2020, 5, 701-709.   | 8.8  | 91        |
| 35 | An Interconnected Channel‣ike Framework as Host for Lithium Metal Composite Anodes. Advanced<br>Energy Materials, 2019, 9, 1802720.  | 10.2 | 83        |
| 36 | Nanostructural and Electrochemical Evolution of the Solid-Electrolyte Interphase on CuO<br>Nanowires Revealed by Cryogenic-Electron Microscopy and Impedance Spectroscopy. ACS Nano, 2019,<br>13, 737-744. | 7.3  | 78        |

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|----|---|-----|-----------|
| 37 | An ultrathin ionomer interphase for high efficiency lithium anode in carbonate based electrolyte.<br>Nature Communications, 2019, 10, 5824. | 5.8 | 62        |
| 38 | ZnO-based microrockets with light-enhanced propulsion. Nanoscale, 2017, 9, 15027-15032.   | 2.8 | 53        |
| 39 | Motion-based threat detection using microrods: experiments and numerical simulations. Nanoscale, 2015, 7, 7833-7840.                        | 2.8 | 26        |
| 40 | Electrotunable liquid sulfurÂmicrodroplets. Nature Communications, 2020, 11, 606.   | 5.8 | 22        |