

Hee Jung Chang

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

1,505
citations

623734

14
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

2085
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 7Li MRI of Li batteries reveals location of microstructural lithium. <i>Nature Materials</i> , 2012, 11, 311-315. | 27.5 | 390 |
| 2 | Correlating Microstructural Lithium Metal Growth with Electrolyte Salt Depletion in Lithium Batteries Using ⁷ Li MRI. <i>Journal of the American Chemical Society</i> , 2015, 137, 15209-15216. | 13.7 | 221 |
| 3 | Three-dimensional characterization of electrodeposited lithium microstructures using synchrotron X-ray phase contrast imaging. <i>Chemical Communications</i> , 2015, 51, 266-268. | 4.1 | 133 |
| 4 | Investigating Li Microstructure Formation on Li Anodes for Lithium Batteries by in Situ ⁶ Li/ ⁷ Li NMR and SEM. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16443-16451. | 3.1 | 130 |
| 5 | In situ NMR of lithium ion batteries: Bulk susceptibility effects and practical considerations. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 42, 62-70. | 2.3 | 117 |
| 6 | Real-time 3D imaging of microstructure growth in battery cells using indirect MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10779-10784. | 7.1 | 110 |
| 7 | Rechargeable Mg ⁺ Li hybrid batteries: status and challenges. <i>Journal of Materials Research</i> , 2016, 31, 3125-3141. | 2.6 | 92 |
| 8 | Advanced intermediate temperature sodium ⁺ nickel chloride batteries with ultra-high energy density. <i>Nature Communications</i> , 2016, 7, 10683. | 12.8 | 92 |
| 9 | Visualizing skin effects in conductors with MRI: $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mrow} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{Li MRI experiments and calculations. } \langle \text{mml:math} \rangle \text{Journal of Magnetic Resonance, 2014, 245, 143-149.}$ | 2.1 | 63 |
| 10 | Electrodeposited Zinc-Based Films as Anodes for Aqueous Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42763-42772. | 8.0 | 43 |
| 11 | Development of intermediate temperature sodium nickel chloride rechargeable batteries using conventional polymer sealing technologies. <i>Journal of Power Sources</i> , 2017, 348, 150-157. | 7.8 | 36 |
| 12 | High-Performance InZn Alloy Anodes toward Practical Aqueous Zinc Batteries. <i>ACS Energy Letters</i> , 2022, 7, 1888-1895. | 17.4 | 26 |
| 13 | An Intermediate-Temperature High-Performance Na ⁺ ZnCl ₂ Battery. <i>ACS Omega</i> , 2018, 3, 15702-15708. | 3.5 | 20 |
| 14 | Mechanistic investigation of redox processes in Zn ⁺ MnO ₂ battery in mild aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20766-20775. | 10.3 | 18 |
| 15 | Effect of cathode thickness on the performance of planar Na-NiCl ₂ battery. <i>Journal of Power Sources</i> , 2017, 365, 456-462. | 7.8 | 14 |