# Chengjun J Xu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6116429/publications.pdf

Version: 2024-02-01

| 69 | 8,895 | 53751 45 | 88593 70 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 71 | 71 | 71 | 8019 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Layer-by-layer zinc metal anodes to achieve long-life zinc-ion batteries. Chemical Engineering Journal, 2022, 431, 133902. | 6.6 | 32 |
| 2 | Unraveling dynamical behaviors of zinc metal electrodes in aqueous electrolytes through an operando study. Energy Storage Materials, 2022, 46, 243-251. | 9.5 | 31 |
| 3 | Reversible aqueous zinc-ion battery based on ferric vanadate cathode. Chinese Chemical Letters, 2022, 33, 4628-4634. | 4.8 | 25 |
| 4 | MoS2 with high 1T phase content enables fast reversible zinc-ion storage via pseudocapacitance. Chemical Engineering Journal, 2022, 448, 137688. | 6.6 | 24 |
| 5 | Î²-MnO2 with proton conversion mechanism in rechargeable zinc ion battery. Journal of Energy Chemistry, 2021, 56, 365-373. | 7.1 | 114 |
| 6 | Towards High-Energy and Anti-Self-Discharge Zn-Ion Hybrid Supercapacitors with New Understanding of the Electrochemistry. Nano-Micro Letters, 2021, 13, 95. | 14.4 | 115 |
| 7 | High-performance zinc-ion batteries enabled by electrochemically induced transformation of vanadium oxide cathodes. Journal of Energy Chemistry, 2021, 60, 233-240. | 7.1 | 65 |
| 8 | 3D Oxygenâ€Defective Potassium Vanadate/Carbon Nanoribbon Networks as Highâ€Performance Cathodes for Aqueous Zincâ€Ion Batteries. Small Methods, 2020, 4, 1900670. | 4.6 | 124 |
| 9 | Flexible and conductive scaffold-stabilized zinc metal anodes for ultralong-life zinc-ion batteries and zinc-ion hybrid capacitors. Chemical Engineering Journal, 2020, 384, 123355. | 6.6 | 188 |
| 10 | High-Performance Aqueous Zinc-Ion Batteries Realized by MOF Materials. Nano-Micro Letters, 2020, 12, 152. | 14.4 | 141 |
| 11 | Few-layer Ti3C2T MXene delaminated via flash freezing for high-rate electrochemical capacitive energy storage. Journal of Energy Chemistry, 2020, 48, 233-240. | 7.1 | 27 |
| 12 | Layered vanadium oxides with proton and zinc ion insertion for zinc ion batteries. Electrochimica Acta, 2019, 320, 134565. | 2.6 | 143 |
| 13 | High-Power and Ultralong-Life Aqueous Zinc-Ion Hybrid Capacitors Based on Pseudocapacitive Charge Storage. Nano-Micro Letters, 2019, 11, 94. | 14.4 | 108 |
| 14 | Novel Insights into Energy Storage Mechanism of Aqueous Rechargeable Zn/MnO2 Batteries with Participation of Mn2+. Nano-Micro Letters, 2019, 11, 49. | 14.4 | 166 |
| 15 | Thermal design and optimization of lithium ion batteries for unmanned aerial vehicles. Energy Storage, 2019, 1, e48. | 2.3 | 10 |
| 16 | Group VB transition metal dichalcogenides for oxygen reduction reaction and strain-enhanced activity governed by p-orbital electrons of chalcogen. Nano Research, 2019, 12, 925-930. | 5.8 | 39 |
| 17 | Aqueous V2O5/activated carbon zinc-ion hybrid capacitors with high energy density and excellent cycling stability. Journal of Materials Science: Materials in Electronics, 2019, 30, 5478-5486. | 1.1 | 41 |
| 18 | 3D Porous Copper Skeleton Supported Zinc Anode toward High Capacity and Long Cycle Life Zinc Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 3364-3371. | 3.2 | 387 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multivalent ion storage towards high-performance aqueous zinc-ion hybrid supercapacitors. Energy Storage Materials, 2019, 20, 335-342. | 9.5 | 221 |
| 20 | Facile Preparation of Highâ€Performance Stretchable Fiberâ€Like Electrodes and Supercapacitors. ChemistrySelect, 2018, 3, 4179-4184. | 0.7 | 16 |
| 21 | Extremely safe, high-rate and ultralong-life zinc-ion hybrid supercapacitors. Energy Storage Materials, 2018, 13, 96-102. | 9.5 | 568 |
| 22 | Universal Descriptor for Large-Scale Screening of High-Performance MXene-Based Materials for Energy Storage and Conversion. Chemistry of Materials, 2018, 30, 2687-2693. | 3.2 | 71 |
| 23 | Polymorphous Supercapacitors Constructed from Flexible Three-Dimensional Carbon Network/Polyaniline/MnO<sub>2</sub> Composite Textiles. ACS Applied Materials & Interfaces, 2018, 10, 10851-10859. | 4.0 | 65 |
| 24 | Electrochemically induced spinel-layered phase transition of Mn3O4 in high performance neutral aqueous rechargeable zinc battery. Electrochimica Acta, 2018, 259, 170-178. | 2.6 | 269 |
| 25 | Effects of solvent on structures and properties of electrospun poly(ethylene oxide) nanofibers. Journal of Applied Polymer Science, 2018, 135, 45787. | 1.3 | 40 |
| 26 | Binary and Ternary Manganese Dioxide Composites Cathode for Aqueous Zincâ€ion Battery. ChemistrySelect, 2018, 3, 12661-12665. | 0.7 | 15 |
| 27 | Origin of storage capacity enhancement by replacing univalent ion with multivalent ion for energy storage. Electrochimica Acta, 2018, 282, 30-37. | 2.6 | 11 |
| 28 | Comprehensive approaches to three-dimensional flexible supercapacitor electrodes based on MnO2/carbon nanotube/activated carbon fiber felt. Journal of Materials Science, 2017, 52, 5788-5798. | 1.7 | 24 |
| 29 | Manganese Sesquioxide as Cathode Material for Multivalent Zinc Ion Battery with High Capacity and Long Cycle Life. Electrochimica Acta, 2017, 229, 422-428. | 2.6 | 329 |
| 30 | Multi hierarchical construction-induced superior capacitive performances of flexible electrodes for wearable energy storage. Nano Energy, 2017, 34, 242-248. | 8.2 | 122 |
| 31 | Investigation of zinc ion storage of transition metal oxides, sulfides, and borides in zinc ion battery systems. Chemical Communications, 2017, 53, 6872-6874. | 2.2 | 147 |
| 32 | Theoretical Investigation of the Intercalation Chemistry of Lithium/Sodium Ions in Transition Metal Dichalcogenides. Journal of Physical Chemistry C, 2017, 121, 13599-13605. | 1.5 | 87 |
| 33 | Stacking up layers of polyaniline/carbon nanotube networks inside papers as highly flexible electrodes with large areal capacitance and superior rate capability. Journal of Materials Chemistry A, 2017, 5, 19934-19942. | 5.2 | 82 |
| 34 | Unraveling the Influence of Metal Substrates on Graphene Nucleation from First-Principles Study. Journal of Physical Chemistry C, 2016, 120, 23239-23245. | 1.5 | 20 |
| 35 | Breathable and Wearable Energy Storage Based on Highly Flexible Paper Electrodes. Advanced Materials, 2016, 28, 9313-9319. | 11.1 | 219 |
| 36 | Simultaneous Production of Highâ€Performance Flexible Textile Electrodes and Fiber Electrodes for Wearable Energy Storage. Advanced Materials, 2016, 28, 1675-1681. | 11.1 | 186 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | High-performance supercapacitors based on graphene/MnO<sub>2</sub>/activated carbon fiber felt composite electrodes in different neutral electrolytes. RSC Advances, 2016, 6, 12525-12529. | 1.7 | 22 |
| 38 | Flexible electrodes and supercapacitors for wearable energy storage: a review by category. Journal of Materials Chemistry A, 2016, 4, 4659-4685. | 5.2 | 493 |
| 39 | Secondary batteries with multivalent ions for energy storage. Scientific Reports, 2015, 5, 14120. | 1.6 | 125 |
| 40 | Prediction of interfacial thermal resistance of carbon fiber in one dimensional fiber-reinforced composites using laser flash analysis. Composites Science and Technology, 2015, 110, 69-75. | 3.8 | 13 |
| 41 | Tailoring Native Defects and Zinc Impurities in Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>: Insights from First-Principles Study. Journal of Physical Chemistry C, 2015, 119, 5238-5245. | 1.5 | 23 |
| 42 | High-performance compressible supercapacitors based on functionally synergic multiscale carbon composite textiles. Journal of Materials Chemistry A, 2015, 3, 4729-4737. | 5.2 | 81 |
| 43 | Enhancement on Cycle Performance of Zn Anodes by Activated Carbon Modification for Neutral Rechargeable Zinc Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A1439-A1444. | 1.3 | 164 |
| 44 | First principles study of ruthenium(<scp>ii</scp>) sensitizer adsorption on anatase TiO<sub>2</sub> (001) surface. RSC Advances, 2015, 5, 60230-60236. | 1.7 | 7 |
| 45 | Facile preparation of carbon nanotube aerogels with controlled hierarchical microstructures and versatile performance. Carbon, 2015, 90, 164-171. | 5.4 | 51 |
| 46 | Co-electro-deposition of the MnO2â€“PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. Journal of Materials Chemistry A, 2013, 1, 12432. | 5.2 | 163 |
| 47 | Flexible asymmetric supercapacitors based on ultrathin two-dimensional nanosheets with outstanding electrochemical performance and aesthetic property. Scientific Reports, 2013, 3, 2598. | 1.6 | 139 |
| 48 | Anomalous effect of K ion on crystallinity and capacitance of the manganese dioxide. Journal of Power Sources, 2013, 225, 226-230. | 4.0 | 15 |
| 49 | Anomalous effect of K ions on electrochemical capacitance of amorphous MnO2. Journal of Power Sources, 2013, 234, 1-7. | 4.0 | 36 |
| 50 | Experiments and modeling of thermal conductivity of flake graphite/polymer composites affected by adding carbon-based nano-fillers. Carbon, 2013, 57, 452-459. | 5.4 | 56 |
| 51 | Flexible supercapacitors. Particuology, 2013, 11, 371-377. | 2.0 | 92 |
| 52 | Investigation on Zinc Ion Storage in Alpha Manganese Dioxide for Zinc Ion Battery by Electrochemical Impedance Spectrum. Journal of the Electrochemical Society, 2013, 160, A93-A97. | 1.3 | 74 |
| 53 | Ultrathin amorphous manganese dioxide nanosheets synthesized with controllable width. Chemical Communications, 2013, 49, 7331. | 2.2 | 31 |
| 54 | Modeling the in-plane thermal conductivity of a graphite/polymer composite sheet with a very high content of natural flake graphite. Carbon, 2012, 50, 5052-5061. | 5.4 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Preparation and characterization of manganese dioxides with nano-sized tunnel structures for zinc ion storage. Journal of Physics and Chemistry of Solids, 2012, 73, 1487-1491. | 1.9 | 153 |
| 56 | Inorganic-based solâ€“gel synthesis of nano-structured LiFePO4/C composite materials for lithium ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 1353-1362. | 1.2 | 29 |
| 57 | Formation and conversion mechanisms between single-crystal gamma-MnOOH and manganese oxides. Materials Research Bulletin, 2012, 47, 1740-1746. | 2.7 | 28 |
| 58 | Energetic Zinc Ion Chemistry: The Rechargeable Zinc Ion Battery. Angewandte Chemie - International Edition, 2012, 51, 933-935. | 7.2 | 1,437 |
| 59 | The improvement of the high-rate charge/discharge performances of LiFePO4 cathode material by Sn doping. Journal of Solid State Electrochemistry, 2012, 16, 1-8. | 1.2 | 27 |
| 60 | The Effect of Vanadium on Physicochemical and Electrochemical Performances of LiFePO[sub 4] Cathode for Lithium Battery. Journal of the Electrochemical Society, 2011, 158, A26. | 1.3 | 64 |
| 61 | Effects of tin doping on physicochemical and electrochemical performances of LiFe1â^'xSnxPO4/C (0â‰¤xâ‰¤0.07) composite cathode materials. Electrochimica Acta, 2011, 56, 7385-7391. | 2.6 | 38 |
| 62 | Charge storage mechanism of manganese dioxide for capacitor application: Effect of the mild electrolytes containing alkaline and alkaline-earth metal cations. Journal of Power Sources, 2011, 196, 7854-7859. | 4.0 | 88 |
| 63 | A study on charge storage mechanism of Î±-MnO2 by occupying tunnels with metal cations (Ba2+, K+). Journal of Power Sources, 2011, 196, 7860-7867. | 4.0 | 49 |
| 64 | Recent progress on manganese dioxide based supercapacitors. Journal of Materials Research, 2010, 25, 1421-1432. | 1.2 | 236 |
| 65 | Reversible Insertion Properties of Zinc Ion into Manganese Dioxide and Its Application for Energy Storage. Electrochemical and Solid-State Letters, 2009, 12, A61. | 2.2 | 99 |
| 66 | Capacitive Behavior and Charge Storage Mechanism of Manganese Dioxide in Aqueous Solution Containing Bivalent Cations. Journal of the Electrochemical Society, 2009, 156, A73. | 1.3 | 86 |
| 67 | Asymmetric Activated Carbon-Manganese Dioxide Capacitors in Mild Aqueous Electrolytes Containing Alkaline-Earth Cations. Journal of the Electrochemical Society, 2009, 156, A435. | 1.3 | 109 |
| 68 | Electrochemical properties of nanosized hydrous manganese dioxide synthesized by a self-reacting microemulsion method. Journal of Power Sources, 2008, 180, 664-670. | 4.0 | 128 |
| 69 | Supercapacitive studies on amorphous MnO2 in mild solutions. Journal of Power Sources, 2008, 184, 691-694. | 4.0 | 81 |