Chengjun J Xu

List of Publications by Year
in descending order

69 papers	8,895 citations	53751 45 h-index	88593 70 g-index
71 all docs	71 docs citations	71 times ranked	8019 citing authors

#	Article	IF	Citations
1	Energetic Zinc Ion Chemistry: The Rechargeable Zinc Ion Battery. Angewandte Chemie - International Edition, 2012, 51, 933-935.	7.2	1,437
2	Extremely safe, high-rate and ultralong-life zinc-ion hybrid supercapacitors. Energy Storage Materials, 2018, 13, 96-102.	9.5	568
3	Flexible electrodes and supercapacitors for wearable energy storage: a review by category. Journal of Materials Chemistry A, 2016, 4, 4659-4685.	5.2	493
4	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
5	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
6	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
7	Recent progress on manganese dioxide based supercapacitors. Journal of Materials Research, 2010, 25, 1421-1432.	1.2	236
8	Multivalent ion storage towards high-performance aqueous zinc-ion hybrid supercapacitors. Energy Storage Materials, 2019, 20, 335-342.	9.5	221
9	Breathable and Wearable Energy Storage Based on Highly Flexible Paper Electrodes. Advanced Materials, 2016, 28, 9313-9319.	11.1	219
10	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
11	Simultaneous Production of Highâ€Performance Flexible Textile Electrodes and Fiber Electrodes for Wearable Energy Storage. Advanced Materials, 2016, 28, 1675-1681.	11.1	186
12	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
13	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
14	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
15	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
16	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
17	Layered vanadium oxides with proton and zinc ion insertion for zinc ion batteries. Electrochimica Acta, 2019, 320, 134565.	2.6	143
18	High-Performance Aqueous Zinc-Ion Batteries Realized by MOF Materials. Nano-Micro Letters, 2020, 12, 152.	14.4	141

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19	Flexible asymmetric supercapacitors based on ultrathin two-dimensional nanosheets with outstanding electrochemical performance and aesthetic property. Scientific Reports, 2013, 3, 2598.	1.6	139
20	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
21	Secondary batteries with multivalent ions for energy storage. Scientific Reports, 2015, 5, 14120.	1.6	125
22	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
23	Multi hierarchical construction-induced superior capacitive performances of flexible electrodes for wearable energy storage. Nano Energy, 2017, 34, 242-248.	8.2	122
24	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
25	Î²-MnO2 with proton conversion mechanism in rechargeable zinc ion battery. Journal of Energy Chemistry, 2021, 56, 365-373.	7.1	114
26	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
27	High-Power and Ultralong-Life Aqueous Zinc-Ion Hybrid Capacitors Based on Pseudocapacitive Charge Storage. Nano-Micro Letters, 2019, 11, 94.	14.4	108
28	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
29	Flexible supercapacitors. Particuology, 2013, 11, 371-377.	2.0	92
30	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
31	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
32	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
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	Supercapacitive studies on amorphous MnO2 in mild solutions. Journal of Power Sources, 2008, 184, 691-694.	4.0	81
35	High-performance compressible supercapacitors based on functionally synergic multiscale carbon composite textiles. Journal of Materials Chemistry A, 2015, 3, 4729-4737.	5.2	81
36	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

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37	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
38	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
39	Polymorphous Supercapacitors Constructed from Flexible Three-Dimensional Carbon Network/Polyaniline/MnO₂ Composite Textiles. ACS Applied Materials & Interfaces, 2018, 10, 10851-10859.	4.0	65
40	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
41	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
42	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
43	Facile preparation of carbon nanotube aerogels with controlled hierarchical microstructures and versatile performance. Carbon, 2015, 90, 164-171.	5.4	51
44	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
45	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
46	Effects of solvent on structures and properties of electrospun poly(ethylene oxide) nanofibers. Journal of Applied Polymer Science, 2018, 135, 45787.	1.3	40
47	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
48	Effects of tin doping on physicochemical and electrochemical performances of LiFe1âˆ’xSnxPO4/C (0â‰xâ‰0.07) composite cathode materials. Electrochimica Acta, 2011, 56, 7385-7391.	2.6	38
49	Anomalous effect of K ions on electrochemical capacitance of amorphous MnO2. Journal of Power Sources, 2013, 234, 1-7.	4.0	36
50	Layer-by-layer zinc metal anodes to achieve long-life zinc-ion batteries. Chemical Engineering Journal, 2022, 431, 133902.	6.6	32
51	Ultrathin amorphous manganese dioxide nanosheets synthesized with controllable width. Chemical Communications, 2013, 49, 7331.	2.2	31
52	Unraveling dynamical behaviors of zinc metal electrodes in aqueous electrolytes through an operando study. Energy Storage Materials, 2022, 46, 243-251.	9.5	31
53	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
54	Formation and conversion mechanisms between single-crystal gamma-MnOOH and manganese oxides. Materials Research Bulletin, 2012, 47, 1740-1746.	2.7	28

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55	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
56	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
57	Reversible aqueous zinc-ion battery based on ferric vanadate cathode. Chinese Chemical Letters, 2022, 33, 4628-4634.	4.8	25
58	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
59	MoS2 with high 1T phase content enables fast reversible zinc-ion storage via pseudocapacitance. Chemical Engineering Journal, 2022, 448, 137688.	6.6	24
60	Tailoring Native Defects and Zinc Impurities in Li₄Ti₅O₁₂: Insights from First-Principles Study. Journal of Physical Chemistry C, 2015, 119, 5238-5245.	1.5	23
61	High-performance supercapacitors based on graphene/MnO₂/activated carbon fiber felt composite electrodes in different neutral electrolytes. RSC Advances, 2016, 6, 12525-12529.	1.7	22
62	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
63	Facile Preparation of Highâ€Performance Stretchable Fiberâ€Like Electrodes and Supercapacitors. ChemistrySelect, 2018, 3, 4179-4184.	0.7	16
64	Anomalous effect of K ion on crystallinity and capacitance of the manganese dioxide. Journal of Power Sources, 2013, 225, 226-230.	4.0	15
65	Binary and Ternary Manganese Dioxide Composites Cathode for Aqueous Zincâ€Ion Battery. ChemistrySelect, 2018, 3, 12661-12665.	0.7	15
66	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
67	Origin of storage capacity enhancement by replacing univalent ion with multivalent ion for energy storage. Electrochimica Acta, 2018, 282, 30-37.	2.6	11
68	Thermal design and optimization of lithium ion batteries for unmanned aerial vehicles. Energy Storage, 2019, 1, e48.	2.3	10
69	First principles study of ruthenium(<scp>ii</scp>) sensitizer adsorption on anatase TiO₂ (001) surface. RSC Advances, 2015, 5, 60230-60236.	1.7	7