Dongchang Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55 papers	5,262 citations	35 h-index	55 g-index
55 ext. papers	6,032 ext. citations	15.3 avg, IF	5.69 L-index

#	Paper	IF	Citations
55	Application of Advanced Vibrational Spectroscopy in Revealing Critical Chemical Processes and Phenomena of Electrochemical Energy Storage and Conversion.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	4
54	Fluorination-Enhanced Surface Stability of Cation-Disordered Rocksalt Cathodes for Li-Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2101888	15.6	11
53	Understanding cation-disordered rocksalt oxyfluoride cathodes. *Journal of Materials Chemistry A*, **2021**, 9, 7826-7837	13	6
52	Atomic-scale mechanisms for fluorination-enhanced cycling stability of cation-disordered rocksalt cathodes. *Microscopy and Microanalysis*, **2021**, 27, 1256-1258	0.5	
51	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 38221-38228	9.5	5
50	Role of Fluorine in Chemomechanics of Cation-Disordered Rocksalt Cathodes. *Chemistry of Materials*, **2021**, 33, 7028-7038	9.6	2
49	Role of Redox-Inactive Transition-Metals in the Behavior of Cation-Disordered Rocksalt Cathodes. *Small*, **2020**, 16, e2000656	11	22
48	A Fluorination Method for Improving Cation-Disordered Rocksalt Cathode Performance. *Advanced Energy Materials*, **2020**, 10, 2001671	21.8	18
47	Li-Ion Batteries: A Fluorination Method for Improving Cation-Disordered Rocksalt Cathode Performance (Adv. Energy Mater. 35/2020). *Advanced Energy Materials*, **2020**, 10, 2070146	21.8	
46	Evolution of Local Structural Ordering and Chemical Distribution upon Delithiation of a Rock Salt-Structured Li1.3Ta0.3Mn0.4O2 Cathode. *Advanced Functional Materials*, **2019**, 29, 1808294	15.6	29
45	Operando Investigation into Dynamic Evolution of Cathode-Electrolyte Interfaces in a Li-Ion Battery. *Nano Letters*, **2019**, 19, 2037-2043	11.5	45
44	Understanding Performance Degradation in Cation-Disordered Rock-Salt Oxide Cathodes. *Advanced Energy Materials*, **2019**, 9, 1901255	21.8	45
43	A high-performance supercapacitor electrode based on N-doped porous graphene. *Journal of Power Sources*, **2018**, 387, 43-48	8.9	152
42	Unravelling Solid-State Redox Chemistry in Li1.3Nb0.3Mn0.4O2 Single-Crystal Cathode Material. *Chemistry of Materials*, **2018**, 30, 1655-1666	9.6	58
41	Rational Design of Nickel Hydroxide-Based Nanocrystals on Graphene for Ultrafast Energy Storage. *Advanced Energy Materials*, **2018**, 8, 1702247	21.8	172
40	A novel low-thermal-budget approach for the co-production of ethylene and hydrogen via the electrochemical non-oxidative deprotonation of ethane. *Energy and Environmental Science*, **2018**, 11, 1710-1716	35.4	55
39	An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes. *Nano Energy*, **2018**, 47, 474-480	17.1	48

38	In Situ and Surface-Enhanced Raman Spectroscopy Study of Electrode Materials in Solid Oxide Fuel Cells. *Electrochemical Energy Reviews*, **2018**, 1, 433-459	29.3	14
37	An In Situ Formed, Dual-Phase Cathode with a Highly Active Catalyst Coating for Protonic Ceramic Fuel Cells. *Advanced Functional Materials*, **2018**, 28, 1704907	15.6	59
36	A bi-functional WO3-based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. *Energy Storage Materials*, **2018**, 12, 79-84	19.4	8
35	A tailored double perovskite nanofiber catalyst enables ultrafast oxygen evolution. *Nature Communications*, **2017**, 8, 14586	17.4	251
34	Controlled synthesis of three-phase NixSy/rGO nanoflake electrodes for hybrid supercapacitors with high energy and power density. *Nano Energy*, **2017**, 33, 522-531	17.1	167
33	Functionalized Bimetallic Hydroxides Derived from Metal Organic Frameworks for High-Performance Hybrid Supercapacitor with Exceptional Cycling Stability. *ACS Energy Letters*, **2017**, 2, 1263-1269	20.1	128
32	Unraveling the Nature of Anomalously Fast Energy Storage in T-NbO. *Journal of the American Chemical Society*, **2017**, 139, 7071-7081	16.4	118
31	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. *Energy Storage Materials*, **2017**, 7, 32-39	19.4	124
30	A durable polyvinyl butyral-CsH2PO4 composite electrolyte for solid acid fuel cells. *Journal of Power Sources*, **2017**, 359, 1-6	8.9	6
29	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. *Energy and Environmental Science*, **2017**, 10, 964-971	35.4	145
28	Systematic study on structural and electronic properties of diamine/triamine functionalized graphene networks for supercapacitor application. *Nano Energy*, **2017**, 31, 183-193	17.1	99
27	One-step synthesis of architectural Ni3S2 nanosheet-on-nanorods array for use as high-performance electrodes for supercapacitors. *NPG Asia Materials*, **2016**, 8, e300-e300	10.3	69
26	In situ Raman spectroscopic analysis of the coking resistance mechanism on SrZr0.95Y0.05O3 surface for solid oxide fuel cell anodes. *Journal of Power Sources*, **2016**, 324, 282-287	8.9	2
25	A high-performance, cobalt-free cathode for intermediate-temperature solid oxide fuel cells with excellent CO2 tolerance. *Journal of Power Sources*, **2016**, 319, 178-184	8.9	25
24	Dramatically enhanced reversibility of Li2O in SnO2-based electrodes: the effect of nanostructure on high initial reversible capacity. *Energy and Environmental Science*, **2016**, 9, 595-603	35.4	257
23	A Scalable Free-Standing V2O5/CNT Film Electrode for Supercapacitors with a Wide Operation Voltage (1.6 V) in an Aqueous Electrolyte. *Advanced Functional Materials*, **2016**, 26, 6114-6120	15.6	88
22	Inhibiting Sn coarsening to enhance the reversibility of conversion reaction in lithiated SnO2 anodes by application of super-elastic NiTi films. *Acta Materialia*, **2016**, 109, 248-258	8.4	45
21	Nickel-based pillared MOFs for high-performance supercapacitors: Design, synthesis and stability study. *Nano Energy*, **2016**, 26, 66-73	17.1	238

20	Probing Structural Evolution and Charge Storage Mechanism of NiOH Electrode Materials using In Operando Resonance Raman Spectroscopy. *Advanced Science*, **2016**, 3, 1500433	13.6	58
19	Controlled synthesis of NiCo2S4 nanostructured arrays on carbon fiber paper for high-performance pseudocapacitors. *Nano Energy*, **2015**, 16, 71-80	17.1	292
18	Probing the Charge Storage Mechanism of a Pseudocapacitive MnO2 Electrode Using in Operando Raman Spectroscopy. *Chemistry of Materials*, **2015**, 27, 6608-6619	9.6	141
17	Oxygen- and Nitrogen-Enriched 3D Porous Carbon for Supercapacitors of High Volumetric Capacity. *ACS Applied Materials & Interfaces*, **2015**, 7, 24622-8	9.5	125
16	Electrostatic Force Microscopic Characterization of Early Stage Carbon Deposition on Nickel Anodes in Solid Oxide Fuel Cells. *Nano Letters*, **2015**, 15, 6047-50	11.5	9
15	Evaluation of La0.4Ba0.6Fe0.8Zn0.2O3− Sm0.2Ce0.8O1.9 as a potential cobalt-free composite cathode for intermediate temperature solid oxide fuel cells. *Journal of Power Sources*, **2015**, 275, 808-814	8.9	25
14	Three-dimensional ultrathin Ni(OH)2 nanosheets grown on nickel foam for high-performance supercapacitors. *Nano Energy*, **2015**, 11, 154-161	17.1	329
13	Controllable interior structure of ZnCo2O4 microspheres for high-performance lithium-ion batteries. *Nano Energy*, **2015**, 11, 64-70	17.1	107
12	Crosslinking Graphene Oxide into Robust 3D Porous N-Doped Graphene. *Advanced Materials*, **2015**, 27, 5171-5	24	165
11	Deformable fibrous carbon supported ultrafine nano-SnO2 as a high volumetric capacity and cyclic durable anode for Li storage. *Journal of Materials Chemistry A*, **2015**, 3, 15097-15107	13	44
10	Phase evolution of an alpha MnO2-based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. *Nano Energy*, **2014**, 9, 161-167	17.1	138
9	Contribution of carbon fiber paper (CFP) to the capacitance of a CFP-supported manganese oxide supercapacitor. *Journal of Power Sources*, **2014**, 248, 1197-1200	8.9	15
8	High-temperature surface enhanced Raman spectroscopy for in situ study of solid oxide fuel cell materials. *Energy and Environmental Science*, **2014**, 7, 306-310	35.4	51
7	Carbon fiber paper supported hybrid nanonet/nanoflower nickel oxide electrodes for high-performance pseudo-capacitors. *Journal of Materials Chemistry A*, **2013**, 1, 7709	13	64
6	Hybrid composite Ni(OH)2@NiCo2O4 grown on carbon fiber paper for high-performance supercapacitors. *ACS Applied Materials & Interfaces*, **2013**, 5, 11159-62	9.5	162
5	High-performance NiBaZr0.1Ce0.7Y0.1Yb0.1O3(BZCYYb) membranes for hydrogen separation. *International Journal of Hydrogen Energy*, **2013**, 38, 14743-14749	6.7	39
4	Well-organized raspberry-like Ag@Cu bimetal nanoparticles for highly reliable and reproducible surface-enhanced Raman scattering. *Nanoscale*, **2013**, 5, 11620-4	7.7	51
3	High-performance, ceria-based solid oxide fuel cells fabricated at low temperatures. *Journal of Power Sources*, **2013**, 241, 454-459	8.9	32

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2	Nickel-cobalt hydroxide nanosheets coated on NiCo2O4 nanowires grown on carbon fiber paper for high-performance pseudocapacitors. *Nano Letters*, **2013**, 13, 3135-9	11.5	888
1	An Overview of Cation-Disordered Lithium-Excess Rocksalt Cathodes. *ACS Energy Letters*,1358-1376	20.1	12