

# Dongchang Chen

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3666843/dongchang-chen-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Nickel-cobalt hydroxide nanosheets coated on NiCo <sub>2</sub> O <sub>4</sub> nanowires grown on carbon fiber paper for high-performance pseudocapacitors. <i>Nano Letters</i> , <b>2013</b> , 13, 3135-9	11.5	888
54	Three-dimensional ultrathin Ni(OH) <sub>2</sub> nanosheets grown on nickel foam for high-performance supercapacitors. <i>Nano Energy</i> , <b>2015</b> , 11, 154-161	17.1	329
53	Controlled synthesis of NiCo <sub>2</sub> S <sub>4</sub> nanostructured arrays on carbon fiber paper for high-performance pseudocapacitors. <i>Nano Energy</i> , <b>2015</b> , 16, 71-80	17.1	292
52	Dramatically enhanced reversibility of Li <sub>2</sub> O in SnO <sub>2</sub> -based electrodes: the effect of nanostructure on high initial reversible capacity. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 595-603	35.4	257
51	A tailored double perovskite nanofiber catalyst enables ultrafast oxygen evolution. <i>Nature Communications</i> , <b>2017</b> , 8, 14586	17.4	251
50	Nickel-based pillared MOFs for high-performance supercapacitors: Design, synthesis and stability study. <i>Nano Energy</i> , <b>2016</b> , 26, 66-73	17.1	238
49	Rational Design of Nickel Hydroxide-Based Nanocrystals on Graphene for Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702247	21.8	172
48	Controlled synthesis of three-phase Ni <sub>x</sub> S <sub>y</sub> /rGO nanoflake electrodes for hybrid supercapacitors with high energy and power density. <i>Nano Energy</i> , <b>2017</b> , 33, 522-531	17.1	167
47	Crosslinking Graphene Oxide into Robust 3D Porous N-Doped Graphene. <i>Advanced Materials</i> , <b>2015</b> , 27, 5171-5	24	165
46	Hybrid composite Ni(OH) <sub>2</sub> @NiCo <sub>2</sub> O <sub>4</sub> grown on carbon fiber paper for high-performance supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11159-62	9.5	162
45	A high-performance supercapacitor electrode based on N-doped porous graphene. <i>Journal of Power Sources</i> , <b>2018</b> , 387, 43-48	8.9	152
44	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 964-971	35.4	145
43	Probing the Charge Storage Mechanism of a Pseudocapacitive MnO <sub>2</sub> Electrode Using in Operando Raman Spectroscopy. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6608-6619	9.6	141
42	Phase evolution of an alpha MnO <sub>2</sub> -based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. <i>Nano Energy</i> , <b>2014</b> , 9, 161-167	17.1	138
41	Functionalized Bimetallic Hydroxides Derived from Metal-Organic Frameworks for High-Performance Hybrid Supercapacitor with Exceptional Cycling Stability. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1263-1269	20.1	128
40	Oxygen- and Nitrogen-Enriched 3D Porous Carbon for Supercapacitors of High Volumetric Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24622-8	9.5	125
39	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. <i>Energy Storage Materials</i> , <b>2017</b> , 7, 32-39	19.4	124

38	Unraveling the Nature of Anomalously Fast Energy Storage in T-NbO. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7071-7081	16.4	118
37	Controllable interior structure of ZnCo <sub>2</sub> O <sub>4</sub> microspheres for high-performance lithium-ion batteries. <i>Nano Energy</i> , <b>2015</b> , 11, 64-70	17.1	107
36	Systematic study on structural and electronic properties of diamine/triamine functionalized graphene networks for supercapacitor application. <i>Nano Energy</i> , <b>2017</b> , 31, 183-193	17.1	99
35	A Scalable Free-Standing V <sub>2</sub> O <sub>5</sub> /CNT Film Electrode for Supercapacitors with a Wide Operation Voltage (1.6 V) in an Aqueous Electrolyte. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6114-6120	15.6	88
34	One-step synthesis of architectural Ni <sub>3</sub> S <sub>2</sub> nanosheet-on-nanorods array for use as high-performance electrodes for supercapacitors. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e300-e300	10.3	69
33	Carbon fiber paper supported hybrid nanonet/nanoflower nickel oxide electrodes for high-performance pseudo-capacitors. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7709	13	64
32	An In Situ Formed, Dual-Phase Cathode with a Highly Active Catalyst Coating for Protonic Ceramic Fuel Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704907	15.6	59
31	Unravelling Solid-State Redox Chemistry in Li <sub>1.3</sub> Nb <sub>0.3</sub> Mn <sub>0.4</sub> O <sub>2</sub> Single-Crystal Cathode Material. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1655-1666	9.6	58
30	Probing Structural Evolution and Charge Storage Mechanism of NiOH Electrode Materials using In Operando Resonance Raman Spectroscopy. <i>Advanced Science</i> , <b>2016</b> , 3, 1500433	13.6	58
29	A novel low-thermal-budget approach for the co-production of ethylene and hydrogen via the electrochemical non-oxidative deprotonation of ethane. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1710-1716	35.4	55
28	High-temperature surface enhanced Raman spectroscopy for in situ study of solid oxide fuel cell materials. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 306-310	35.4	51
27	Well-organized raspberry-like Ag@Cu bimetal nanoparticles for highly reliable and reproducible surface-enhanced Raman scattering. <i>Nanoscale</i> , <b>2013</b> , 5, 11620-4	7.7	51
26	An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes. <i>Nano Energy</i> , <b>2018</b> , 47, 474-480	17.1	48
25	Operando Investigation into Dynamic Evolution of Cathode-Electrolyte Interfaces in a Li-Ion Battery. <i>Nano Letters</i> , <b>2019</b> , 19, 2037-2043	11.5	45
24	Understanding Performance Degradation in Cation-Disordered Rock-Salt Oxide Cathodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901255	21.8	45
23	Inhibiting Sn coarsening to enhance the reversibility of conversion reaction in lithiated SnO <sub>2</sub> anodes by application of super-elastic NiTi films. <i>Acta Materialia</i> , <b>2016</b> , 109, 248-258	8.4	45
22	Deformable fibrous carbon supported ultrafine nano-SnO <sub>2</sub> as a high volumetric capacity and cyclic durable anode for Li storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15097-15107	13	44
21	High-performance NiBaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3</sub> [(BZCY)Yb] membranes for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 14743-14749	6.7	39

20	High-performance, ceria-based solid oxide fuel cells fabricated at low temperatures. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 454-459	8.9	32
19	Evolution of Local Structural Ordering and Chemical Distribution upon Delithiation of a Rock Salt-Structured $\text{Li}_{1.3}\text{Ta}_{0.3}\text{Mn}_{0.4}\text{O}_2$ Cathode. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808294	15.6	29
18	Evaluation of $\text{La}_{0.4}\text{Ba}_{0.6}\text{Fe}_{0.8}\text{Zn}_{0.2}\text{O}_{3-\delta}$ - $\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ as a potential cobalt-free composite cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 808-814	8.9	25
17	A high-performance, cobalt-free cathode for intermediate-temperature solid oxide fuel cells with excellent $\text{CO}_2$ tolerance. <i>Journal of Power Sources</i> , <b>2016</b> , 319, 178-184	8.9	25
16	Role of Redox-Inactive Transition-Metals in the Behavior of Cation-Disordered Rocksalt Cathodes. <i>Small</i> , <b>2020</b> , 16, e2000656	11	22
15	A Fluorination Method for Improving Cation-Disordered Rocksalt Cathode Performance. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001671	21.8	18
14	Contribution of carbon fiber paper (CFP) to the capacitance of a CFP-supported manganese oxide supercapacitor. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 1197-1200	8.9	15
13	In Situ and Surface-Enhanced Raman Spectroscopy Study of Electrode Materials in Solid Oxide Fuel Cells. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 433-459	29.3	14
12	An Overview of Cation-Disordered Lithium-Excess Rocksalt Cathodes. <i>ACS Energy Letters</i> , 1358-1376	20.1	12
11	Fluorination-Enhanced Surface Stability of Cation-Disordered Rocksalt Cathodes for Li-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101888	15.6	11
10	Electrostatic Force Microscopic Characterization of Early Stage Carbon Deposition on Nickel Anodes in Solid Oxide Fuel Cells. <i>Nano Letters</i> , <b>2015</b> , 15, 6047-50	11.5	9
9	A bi-functional $\text{WO}_3$ -based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 79-84	19.4	8
8	A durable polyvinyl butyral- $\text{CsH}_2\text{PO}_4$ composite electrolyte for solid acid fuel cells. <i>Journal of Power Sources</i> , <b>2017</b> , 359, 1-6	8.9	6
7	Understanding cation-disordered rocksalt oxyfluoride cathodes. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7826-7837	13	6
6	Formation of $\text{LiF}$ Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38221-38228	9.5	5
5	Application of Advanced Vibrational Spectroscopy in Revealing Critical Chemical Processes and Phenomena of Electrochemical Energy Storage and Conversion.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
4	In situ Raman spectroscopic analysis of the coking resistance mechanism on $\text{SrZr}_{0.95}\text{Y}_{0.05}\text{O}_{3-\delta}$ surface for solid oxide fuel cell anodes. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 282-287	8.9	2
3	Role of Fluorine in Chemomechanics of Cation-Disordered Rocksalt Cathodes. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7028-7038	9.6	2

- |   |   |      |
|---|---|------|
| 2 | Li-Ion Batteries: A Fluorination Method for Improving Cation-Disordered Rocksalt Cathode Performance (Adv. Energy Mater. 35/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070146 | 21.8 |
| 1 | Atomic-scale mechanisms for fluorination-enhanced cycling stability of cation-disordered rocksalt cathodes. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 1256-1258                   | 0.5  |