Chengwei Wang

List of Publications by Year
in descending order

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36 papers	7,309 citations	201385 27 h-index	344852 36 g-index
36 all docs	36 docs citations	36 times ranked	7290 citing authors

#	Article	IF	Citations
1	Ultrafast high-temperature sintering to avoid metal loss toward high-performance and scalable cermets. Matter, 2022, 5, 594-604.	5.0	10
2	Rapid Pressureless Sintering of Glasses. Small, 2022, 18, e2107951.	5.2	20
3	Plastic Monolithic Mixedâ€Conducting Interlayer for Dendriteâ€Free Solidâ€State Batteries. Advanced Science, 2022, 9, e2105924.	5.6	17
4	Tailoring grain growth and densification toward a high-performance solid-state electrolyte membrane. Materials Today, 2021, 42, 41-48.	8.3	32
5	Stamping Flexible Li Alloy Anodes. Advanced Materials, 2021, 33, e2005305.	11.1	58
6	Rapid Synthesis and Sintering of Metals from Powders. Advanced Science, 2021, 8, e2004229.	5.6	23
7	Highâ€Temperature Ultrafast Sintering: Exploiting a New Kinetic Region to Fabricate Porous Solidâ€State Electrolyte Scaffolds. Advanced Materials, 2021, 33, e2100726.	11.1	24
8	Wood Ionic Cable. Small, 2021, 17, e2008200.	5.2	10
9	Salinityâ€Gradient Power Generation with Ionized Wood Membranes. Advanced Energy Materials, 2020, 10, 1902590.	10.2	83
10	Computationâ€Guided Synthesis of New Garnetâ€Type Solidâ€State Electrolytes via an Ultrafast Sintering Technique. Advanced Materials, 2020, 32, e2005059.	11.1	15
11	Printable, high-performance solid-state electrolyte films. Science Advances, 2020, 6, .	4.7	54
12	A general method to synthesize and sinter bulk ceramics in seconds. Science, 2020, 368, 521-526.	6.0	357
13	Reversible Shortâ€Circuit Behaviors in Garnetâ€Based Solidâ€State Batteries. Advanced Energy Materials, 2020, 10, 2000702.	10.2	77
14	Garnet-Type Solid-State Electrolytes: Materials, Interfaces, and Batteries. Chemical Reviews, 2020, 120, 4257-4300.	23.0	655
15	Flexible Garnet Solid-State Electrolyte Membranes Enabled by Tile-and-Grout Design. ACS Energy Letters, 2019, 4, 2668-2674.	8.8	50
16	Strong, Water-Stable Ionic Cable from Bio-Hydrogel. Chemistry of Materials, 2019, 31, 9288-9294.	3.2	24
17	A Highly Conductive Cationic Wood Membrane. Advanced Functional Materials, 2019, 29, 1902772.	7.8	79
18	An Electron/Ion Dualâ€Conductive Alloy Framework for Highâ€Rate and Highâ€Capacity Solidâ€State Lithiumâ€Metal Batteries. Advanced Materials, 2019, 31, e1804815.	11.1	188

#	Article	IF	Citations
19	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. Advanced Energy Materials, 2018, 8, 1701963.	10.2	186
20	Interface Engineering for Garnetâ€Based Solidâ€State Lithiumâ€Metal Batteries: Materials, Structures, and Characterization. Advanced Materials, 2018, 30, e1802068.	11.1	204
21	Flexible, Bio-Compatible Nanofluidic Ion Conductor. Chemistry of Materials, 2018, 30, 7707-7713.	3.2	54
22	3D Wettable Framework for Dendriteâ€Free Alkali Metal Anodes. Advanced Energy Materials, 2018, 8, 1800635.	10.2	196
23	Muscleâ€Inspired Highly Anisotropic, Strong, Ionâ€Conductive Hydrogels. Advanced Materials, 2018, 30, e1801934.	11.1	408
24	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metalâ€“sulfur batteries. Energy and Environmental Science, 2017, 10, 1568-1575.	15.6	499
25	Toward garnet electrolyteâ€“based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. Science Advances, 2017, 3, e1601659.	4.7	647
26	High-capacity, low-tortuosity, and channel-guided lithium metal anode. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3584-3589.	3.3	412
27	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. Nano Letters, 2017, 17, 565-571.	4.5	556
28	Treeâ€Inspired Design for Highâ€Efficiency Water Extraction. Advanced Materials, 2017, 29, 1704107.	11.1	494
29	In Situ Neutron Depth Profiling of Lithium Metalâ€“Garnet Interfaces for Solid State Batteries. Journal of the American Chemical Society, 2017, 139, 14257-14264.	6.6	154
30	Inverted battery design as ion generator for interfacing with biosystems. Nature Communications, 2017, 8, 15609.	5.8	21
31	Rapid Thermal Annealing of Cathode-Garnet Interface toward High-Temperature Solid State Batteries. Nano Letters, 2017, 17, 4917-4923.	4.5	89
32	Superflexible Wood. ACS Applied Materials & Interfaces, 2017, 9, 23520-23527.	4.0	141
33	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. Journal of the American Chemical Society, 2016, 138, 12258-12262.	6.6	548
34	A Solutionâ€Processed Highâ€Temperature, Flexible, Thinâ€Film Actuator. Advanced Materials, 2016, 28, 8618-8624.	11.1	53
35	Synergistic Ultrathin Functional Polymer-Coated Carbon Nanotube Interlayer for High Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20092-20099.	4.0	102
36	Flexible, solid-state, ion-conducting membrane with 3D garnet nanofiber networks for lithium batteries. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7094-7099.	3.3	769