

Andrew S Westover

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing the Purity of Rolled versus Evaporated Lithium Metal Films Using X-ray Microtomography. ACS Energy Letters, 2022, 7, 1120-1124.	17.4	11
2	Practical Considerations for Testing Polymer Electrolytes for High-Energy Solid-State Batteries. ACS Energy Letters, 2021, 6, 2240-2247.	17.4	40
3	Multifunctional approaches for safe structural batteries. Journal of Energy Storage, 2021, 40, 102747.	8.1	33
4	Resistance to fracture in the glassy solid electrolyte Lipon. Journal of Materials Research, 2021, 36, 787-796.	2.6	21
5	Robustness of the remanent magnetic domain pattern formation and associated stripe-bubble transitions in Co/Pt multilayers against field sequencing. AIP Advances, 2021, 11, 015339.	1.3	2
6	A three-dimensional interconnected polymer/ceramic composite as a thin film solid electrolyte. Energy Storage Materials, 2020, 26, 242-249.	18.0	70
7	Electroanalytical Measurement of Interphase Formation at a Li Metal/Solid Electrolyte Interface. ACS Energy Letters, 2020, 5, 3860-3867.	17.4	14
8	Challenges in Lithium Metal Anodes for Solid-State Batteries. ACS Energy Letters, 2020, 5, 922-934.	17.4	322
9	Plasma Synthesis of Spherical Crystalline and Amorphous Electrolyte Nanopowders for Solid-State Batteries. ACS Applied Materials & Interfaces, 2020, 12, 11570-11578.	8.0	15
10	Structural Degradation of High Voltage Lithium Nickel Manganese Cobalt Oxide (NMC) Cathodes in Solid-State Batteries and Implications for Next Generation Energy Storage. ACS Applied Energy Materials, 2020, 3, 1768-1774.	5.1	28
11	Synthesis of Ni-Rich Thin-Film Cathode as Model System for Lithium Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1405-1412.	5.1	31
12	Modulating the height of carbon nanotube forests by controlling the molybdenum thin film reservoir thickness. Nanoscale, 2019, 11, 1929-1936.	5.6	3
13	Deposition and Confinement of Li Metal along an Artificial Lipon/Solid Electrolyte Interface. ACS Energy Letters, 2019, 4, 651-655.	17.4	87
14	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. Nature Energy, 2019, 4, 187-196.	39.5	1,099
15	Precision Electroanalytical Measurements of Li/Solid-State Electrolyte Interfaces. ECS Meeting Abstracts, 2019, .	0.0	0
16	(Invited) Thin Film Batteries Still Have Interesting Lessons for Lithium Batteries. ECS Meeting Abstracts, 2019, .	0.0	0
17	Patterned growth of carbon nanotube forests using Cu and Cu/Ag thin film reservoirs as growth inhibitors. Carbon, 2018, 130, 273-280.	10.3	10
18	Carbon Nanotube Reinforced Structural Composite Supercapacitor. Scientific Reports, 2018, 8, 17662.	3.3	56

#	ARTICLE	IF	CITATIONS
19	Morphological stripe-bubble transition in remanent magnetic domain patterns of Co/Pt multilayer films and its dependence on Co thickness. <i>Physical Review B</i> , 2018, 98, .	3.2	20
20	Resolving the Amorphous Structure of Lithium Phosphorus Oxynitride (Lipon). <i>Journal of the American Chemical Society</i> , 2018, 140, 11029-11038.	13.7	99
21	Noncovalent Pi-π Stacking at the Carbon-Electrolyte Interface: Controlling the Voltage Window of Electrochemical Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19558-19566.	8.0	26
22	Surface engineering of nanomaterials for improved energy storage – A review. <i>Chemical Engineering Science</i> , 2016, 154, 3-19.	3.8	49
23	Load dependent frictional response of vertically aligned single-walled carbon nanotube films. <i>Scripta Materialia</i> , 2016, 125, 63-67.	5.2	7
24	Particulate-free porous silicon networks for efficient capacitive deionization water desalination. <i>Scientific Reports</i> , 2016, 6, 24680.	3.3	16
25	From the Junkyard to the Power Grid: Ambient Processing of Scrap Metals into Nanostructured Electrodes for Ultrafast Rechargeable Batteries. <i>ACS Energy Letters</i> , 2016, 1, 1034-1041.	17.4	9
26	Enhancement of magnetic domain topologies in Co/Pt thin films by fine tuning the magnetic field path throughout the hysteresis loop. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 399, 164-169.	2.3	18
27	Electrophoretic stabilization of freestanding pristine graphene foams with carbon nanotubes for enhanced optical and electrical response. <i>Materials Letters</i> , 2015, 159, 261-264.	2.6	8
28	All Silicon Electrode Photocapacitor for Integrated Energy Storage and Conversion. <i>Nano Letters</i> , 2015, 15, 2727-2731.	9.1	138
29	Multifunctional high strength and high energy epoxy composite structural supercapacitors with wet-dry operational stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20097-20102.	10.3	38
30	L2 development during study abroad in China. <i>System</i> , 2015, 55, 123-133.	3.4	22
31	On-chip high power porous silicon lithium ion batteries with stable capacity over 10 ⁶ cycles. <i>Nanoscale</i> , 2015, 7, 98-103.	5.6	42
32	Stretching Ion Conducting Polymer Electrolytes: In-Situ Correlation of Mechanical, Ionic Transport, and Optical Properties. <i>Journal of the Electrochemical Society</i> , 2014, 161, E112-E117.	2.9	22
33	A Multifunctional Load-Bearing Solid-State Supercapacitor. <i>Nano Letters</i> , 2014, 14, 3197-3202.	9.1	80
34	Assessing the improved performance of freestanding, flexible graphene and carbon nanotube hybrid foams for lithium ion battery anodes. <i>Nanoscale</i> , 2014, 6, 4669-4675.	5.6	78
35	Direct integration of a supercapacitor into the backside of a silicon photovoltaic device. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	54
36	Ultra high-yield one-step synthesis of conductive and superhydrophobic three-dimensional mats of carbon nanofibers via full catalysis of unconstrained thin films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15118-15123.	10.3	18

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37	Multifunctional Load-Bearing Energy Storage Materials. , 2014, , .		0
38	Surface engineered porous silicon for stable, high performance electrochemical supercapacitors. Scientific Reports, 2013, 3, 3020.	3.3	159
39	Uniform, Homogenous Coatings of Carbon Nanohorns on Arbitrary Substrates from Common Solvents. ACS Applied Materials & Interfaces, 2013, 5, 13153-13160.	8.0	23
40	Microcontroller based pulse oximeter for undergraduate capstone design. , 2010, , .		6
41	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. ACS Energy Letters, 0, , 1399-1404.	17.4	228