Serena A. Corr

List of Publications by Year
in descending order

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67 papers	3,731 citations	201385 27 h-index	123241 61 g-index
69 all docs	69 docs citations	69 times ranked	6384 citing authors

#	Article	IF	Citations
1	Ordered Mesoporous Metallic MoO₂ Materials with Highly Reversible Lithium Storage Capacity. Nano Letters, 2009, 9, 4215-4220.	4.5	650
2	Multifunctional Magnetic-fluorescent Nanocomposites for Biomedical Applications. Nanoscale Research Letters, 2008, 3, .	3.1	436
3	A 3.90 V iron-based fluorosulphate material for lithium-ion batteries crystallizing in the triplite structure. Nature Materials, 2011, 10, 772-779.	13.3	301
4	A Magnetic-Nanoparticle-Supported 4-N,N-Dialkylaminopyridine Catalyst: Excellent Reactivity Combined with Facile Catalyst Recovery and Recyclability. Angewandte Chemie - International Edition, 2007, 46, 4329-4332.	7.2	258
5	Optimisation of the synthesis and modification of CdTe quantum dots for enhanced live cell imaging. Journal of Materials Chemistry, 2006, 16, 2896.	6.7	154
6	Linear Assemblies of Magnetic Nanoparticles as MRI Contrast Agents. Journal of the American Chemical Society, 2008, 130, 4214-4215.	6.6	142
7	2021 roadmap for sodium-ion batteries. JPhys Energy, 2021, 3, 031503.	2.3	125
8	VO2(B) nanorods: solvothermal preparation, electrical properties, and conversion to rutile VO2 and V2O3. Journal of Materials Chemistry, 2009, 19, 4362.	6.7	117
9	Low-temperature densification of Al-doped Li₇La₃Zr₂O₁₂: a reliable and controllable synthesis of fast-ion conducting garnets. Journal of Materials Chemistry A, 2017, 5, 319-329.	5.2	115
10	â€œJelly Dotsâ€: Synthesis and Cytotoxicity Studies of CdTe Quantum Dotâ€“Gelatin Nanocomposites. Small, 2007, 3, 1152-1156.	5.2	99
11	Pressure-induced phase transitions and metallization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2015, 91, .	3.7	82
12	Controlled Reduction of Vanadium Oxide Nanoscrolls: Crystal Structure, Morphology, and Electrical Properties. Chemistry of Materials, 2008, 20, 6396-6404.	3.2	78
13	2020 roadmap on solid-state batteries. JPhys Energy, 2020, 2, 032008.	2.3	74
14	Magnetic-fluorescent nanocomposites for biomedical multitasking. Chemical Communications, 2006, , 4474.	2.2	68
15	NASICON LiM₂(PO₄)₃ electrolyte (M = Zr) and electrode (M = Ti) materials for all solid-state Li-ion batteries with high total conductivity and low interfacial resistance. Journal of Materials Chemistry A, 2018, 6, 5296-5303.	5.2	62
16	Magnetic nanoparticle assemblies on denatured DNA show unusual magnetic relaxivity and potential applications for MRI. Chemical Communications, 2004, , 2560.	2.2	60
17	Fast microwave-assisted synthesis of Li-stuffed garnets and insights into Li diffusion from muon spin spectroscopy. Journal of Materials Chemistry A, 2016, 4, 1729-1736.	5.2	59
18	Muon studies of Li⁺ diffusion in LiFePO₄ nanoparticles of different polymorphs. Journal of Materials Chemistry A, 2014, 2, 6238-6245.	5.2	50

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19	X-Ray Diffraction Computed Tomography for Structural Analysis of Electrode Materials in Batteries. Journal of the Electrochemical Society, 2015, 162, A1310-A1314.	1.3	50
20	Real-Space Investigation of Structural Changes at the Metal-Insulator Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2010, 105, 056404.	2.9	45
21	Enhancement of the lithium ion conductivity of Ta-doped Li₇La₃Zr₂O₁₂ by incorporation of calcium. Dalton Transactions, 2017, 46, 9415-9419.	1.6	45
22	From Nanocrystals to Nanorods:â€‰ New Iron Oxideâ^'Silica Nanocomposites from Metallorganic Precursors. Journal of Physical Chemistry C, 2008, 112, 1008-1018.	1.5	44
23	Perspectives for next generation lithium-ion battery cathode materials. APL Materials, 2021, 9, .	2.2	44
24	Emission properties of colloidal quantum dots on polyelectrolyte multilayers. Nanotechnology, 2006, 17, 4117-4122.	1.3	38
25	Synthesis, Characterisation, and Biological Studies of CdTe Quantum Dotâ€“Naproxen Conjugates. ChemMedChem, 2007, 2, 183-186.	1.6	31
26	Poly(sodium-4-styrene)sulfonateâ^'Iron Oxide Nanocomposite Dispersions with Controlled Magnetic Resonance Properties. Journal of Physical Chemistry C, 2008, 112, 13324-13327.	1.5	30
27	Two applications of solid phantoms in performance assessment of optical coherence tomography systems. Applied Optics, 2013, 52, 7054.	0.9	30
28	Microwave-assisted synthesis of highly crystalline, multifunctional iron oxide nanocomposites for imaging applications. RSC Advances, 2016, 6, 83520-83528.	1.7	28
29	Spontaneously formed porous and composite materials. Journal of Materials Chemistry, 2010, 20, 1413-1422.	6.7	27
30	Insights into the Electrochemical Reduction Products and Processes in Silica Anodes for Nextâ€Generation Lithiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001826.	10.2	26
31	Li1.5La1.5MO6 (Mâ€‰=â€‰W6+, Te6+) as a new series of lithium-rich double perovskites for all-solid-state lithium-ion batteries. Nature Communications, 2020, 11, 6392.	5.8	26
32	Mechanistic insights of Li+ diffusion within doped LiFePO4 from Muon Spectroscopy. Scientific Reports, 2018, 8, 4114.	1.6	25
33	Porphyrin-magnetite nanoconjugates for biological imaging. Journal of Nanobiotechnology, 2011, 9, 13.	4.2	24
34	Magnetite nanocrystals from a single source metallorganic precursor: metallorganic chemistry vs. biogeneric bacteria. Journal of Materials Chemistry, 2004, 14, 944-946.	6.7	23
35	Structureâ€“property insights into nanostructured electrodes for Li-ion batteries from local structural and diffusional probes. Journal of Materials Chemistry A, 2018, 6, 127-137.	5.2	22
36	Muon Spectroscopy for Investigating Diffusion in Energy Storage Materials. Annual Review of Materials Research, 2020, 50, 371-393.	4.3	22

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37	NMR Relaxation of Water in Nanostructures: Analysis of Ferromagnetic Cobalt-Ferrite Polyelectrolyte Nanocomposites. ChemPhysChem, 2011, 12, 772-776.	1.0	19
38	Na_{1.5}La_{1.5}TeO₆: Na⁺ conduction in a novel Na-rich double perovskite. Chemical Communications, 2018, 54, 10040-10043.	2.2	18
39	Pressure-induced cation-cation bonding in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	1.1	17
40	A facile synthetic approach to nanostructured Li₂S cathodes for rechargeable solid-state Liâ€“S batteries. Nanoscale, 2019, 11, 19297-19300.	2.8	16
41	Magnetic Nanoparticles for Targeted Cancer Diagnosis and Therapy. Frontiers of Nanoscience, 2013, , 29-63.	0.3	13
42	In Situ Diffusion Measurements of a NASICON-Structured All-Solid-State Battery Using Muon Spin Relaxation. ACS Applied Energy Materials, 2021, 4, 1527-1536.	2.5	13
43	Low-voltage SEM of air-sensitive powders: From sample preparation to micro/nano analysis with secondary electron hyperspectral imaging. Micron, 2022, 156, 103234.	1.1	13
44	Microwave-assisted synthesis and electrochemical evaluation of VO₂ (B) nanostructures. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 722-726.	0.5	12
45	NMR studies into colloidal stability and magnetic order in fatty acid stabilised aqueous magnetic fluids. Physical Chemistry Chemical Physics, 2010, 12, 14009.	1.3	11
46	Metal oxide nanoparticles. SPR Nanoscience, 2016, , 31-56.	0.3	10
47	Fast microwave treatments of single source alkoxides for nanostructured Li-ion battery electrodes. Chemical Communications, 2016, 52, 9028-9031.	2.2	9
48	A Quinone-Based Cathode Material for High-Performance Organic Lithium and Sodium Batteries. ACS Applied Energy Materials, 2021, 4, 12084-12090.	2.5	9
49	Synthesis and Ionic Conductivity Studies of In- and Y-Doped Li₆Hf₂O₇as Solid-State Electrolyte for All-Solid State Li-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A6395-A6400.	1.3	8
50	Selective and Facile Synthesis of Sodium Sulfide and Sodium Disulfide Polymorphs. Inorganic Chemistry, 2018, 57, 7499-7502.	1.9	6
51	Morphology-Directed Synthesis of LiFePO₄ and LiCoPO₄ from Nanostructured Li_{1+2x}PO_{3+x}. Inorganic Chemistry, 2019, 58, 6946-6949.	1.9	6
52	Benzo-Dipteridine Derivatives as Organic Cathodes for Li- and Na-ion Batteries. ACS Applied Energy Materials, 2020, 3, 8302-8308.	2.5	6
53	Ultra-rapid microwave synthesis of Li_{3â^'xâ^'y}M_xN (M = Co, Ni and Cu) nitridometallates. Inorganic Chemistry Frontiers, 2015, 2, 1045-1050.	3.0	5
54	Exploiting cation aggregation in new magnesium amidohaloaluminate electrolytes for magnesium batteries. Inorganic Chemistry Frontiers, 2020, 7, 2305-2312.	3.0	5

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55	The Role of the Reducible Dopant in Solid Electrolyteâ€“Lithium Metal Interfaces. Chemistry of Materials, 2022, 34, 5054-5064.	3.2	5
56	Chapter 7. Metal oxide nanoparticles. SPR Nanoscience, 2013, , 204-224.	0.3	4
57	Location and characterization of heterogeneous phases within Mary Rose wood. Matter, 2022, 5, 150-161.	5.0	4
58	Porosity through reduction in metal oxides. Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	3
59	Ion dynamics in fluoride-containing polyatomic anion cathodes by muon spectroscopy. JPhys Materials, 2021, 4, 044015.	1.8	2
60	Preparation and biological investigation of luminescent water soluble CdTe nanoparticles. , 2005, 5824, 129.		1
61	New two in one magnetic fluorescent nanocomposites. , 2005, , .		1
62	Phantoms for performance assessment of optical coherence tomography systems. Proceedings of SPIE, 2012, , .	0.8	1
63	Insulating to metallic behaviour in the cation ordered perovskites Ba2Nd1â^'xFexMoO6. Journal of Materials Chemistry C, 2017, 5, 3056-3064.	2.7	1
64	A Conversation with Serena Corr. ACS Central Science, 2018, 4, 1594-1595.	5.3	1
65	Direct observation of breathing phenomenon and phase transformation in Ni-rich cathode materials by in situ TEM. Microscopy and Microanalysis, 2021, 27, 1254-1255.	0.2	1
66	Quantitative ion exchange reactions to form Li2Vac2-2La2Ti3O9+ defect layered perovskites from H2La2Ti3O10 via solid acid/base reaction. Journal of Solid State Chemistry, 2022, 314, 123354.	1.4	1
67	Synthetic Methodologies. , 2013, , 1-15.		0