Elizabeth Castillo-Martinez

List of Publications by Year
in descending order

59 papers	4,358 citations	168829 31 h-index	169272 56 g-index
65 all docs	65 docs citations	65 times ranked	8039 citing authors

#	Article	IF	Citations
1	Cellulose Nanocrystals in Sustainable Energy Systems. Advanced Sustainable Systems, 2022, 6, .	2.7	15
2	Sequential Fe Reduction, Involving Two Different Fe⁺ Intermediates, in the Conversion Reaction of Prussian Blue in Lithium-Ion Batteries. Chemistry of Materials, 2022, 34, 4660-4671.	3.2	0
3	Electrochemical synthesis of <scp> MnO ₂ </scp> / <scp>NiO</scp> / <scp>ZnO</scp> trijunction coated stainless steel substrate as a supercapacitor electrode and cyclic voltammetry behavior modeling using artificial neural network. International Journal of Energy Research, 2022, 46, 17163-17179.	2.2	11
4	High Conductivity in a Fluorine-Free K-Ion Polymer Electrolyte. ACS Applied Energy Materials, 2022, 5, 9009-9019.	2.5	9
5	Sustainable materials for off-grid battery applications: advances, challenges and prospects. Sustainable Energy and Fuels, 2021, 5, 310-331.	2.5	14
6	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	13.3	109
7	Lithiation phase behaviors of metal oxide anodes and extra capacities. Cell Reports Physical Science, 2021, 2, 100543.	2.8	6
8	Lithium ion storage in 1D and 2D redox active metal-organic frameworks. Electrochimica Acta, 2020, 341, 136063.	2.6	6
9	Understanding LiOH Formation in a Li-O₂ Battery with LiI and H₂O Additives. ACS Catalysis, 2019, 9, 66-77.	5.5	57
10	Hybrid biopolymer electrodes for lithium- and sodium-ion batteries in organic electrolytes. Sustainable Energy and Fuels, 2018, 2, 836-842.	2.5	23
11	Polymer-Templated LiFePO₄/C Nanonetworks as High-Performance Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 1646-1653.	4.0	71
12	Polymeric Redoxâ€Active Electrodes for Sodiumâ€Ion Batteries. ChemSusChem, 2018, 11, 311-319.	3.6	19
13	Understanding Fluoroethylene Carbonate and Vinylene Carbonate Based Electrolytes for Si Anodes in Lithium Ion Batteries with NMR Spectroscopy. Journal of the American Chemical Society, 2018, 140, 9854-9867.	6.6	219
14	Temperature effect on the synthesis of lignin-derived carbons for electrochemical energy storage applications. Journal of Power Sources, 2018, 397, 296-306.	4.0	34
15	Electrochemical performance of novel O3 layered Al,Mg doped titanates as anode materials for Na-ion batteries. Materials Research Bulletin, 2017, 94, 199-207.	2.7	8
16	Advanced anode materials for sodium ion batteries: carbodiimides. MRS Advances, 2017, 2, 1165-1176.	0.5	11
17	Metalâ€“Organic Nanosheets Formed via Defect-Mediated Transformation of a Hafnium Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 5397-5404.	6.6	224
18	Electrochemical performance of CuNCN for sodium ion batteries and comparison with ZnNCN and lithium ion batteries. Journal of Power Sources, 2017, 367, 130-137.	4.0	37

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19	Identifying the Structural Basis for the Increased Stability of the Solid Electrolyte Interphase Formed on Silicon with the Additive Fluoroethylene Carbonate. Journal of the American Chemical Society, 2017, 139, 14992-15004.	6.6	176
20	Naâ€ion Batteries for Large Scale Applications: A Review on Anode Materials and Solid Electrolyte Interphase Formation. Advanced Energy Materials, 2017, 7, 1700463.	10.2	261
21	Electrochemical characterization of NaFe2(CN)6 Prussian Blue as positive electrode for aqueous sodium-ion batteries. Electrochimica Acta, 2016, 210, 352-357.	2.6	62
22	Response to Comment on â€œCycling Li-O ₂ batteries via LiOH formation and decompositionâ€ Science, 2016, 352, 667-667.	6.0	11
23	Response to Comment on â€œCycling Li-O ₂ batteries via LiOH formation and decompositionâ€ Science, 2016, 352, 667-667.	6.0	32
24	Highly water-soluble three-redox state organic dyes as bifunctional analytes. Energy and Environmental Science, 2016, 9, 3521-3530.	15.6	66
25	Towards environmentally friendly Na-ion batteries: Moisture and water stability of Na2Ti3O7. Journal of Power Sources, 2016, 324, 378-387.	4.0	39
26	Higher voltage plateau cubic Prussian White for Na-ion batteries. Journal of Power Sources, 2016, 324, 766-773.	4.0	91
27	Identification of the critical synthesis parameters for enhanced cycling stability of Na-ion anode material Na2Ti3O7. Acta Materialia, 2016, 104, 125-130.	3.8	27
28	Optimizing the electrolyte and binder composition for Sodium Prussian Blue, Na 1-x Fe x+(1/3) (CN) 6 Â·yH 2 O, as cathode in sodium ion batteries. Electrochimica Acta, 2016, 200, 123-130.	2.6	42
29	Carbodiimides: new materials applied as anode electrodes for sodium and lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 1608-1611.	5.2	69
30	Response to Comment on "Cycling Li-Oâ‚‚ batteries via LiOH formation and decomposition". Science, 2016, 352, 667.	6.0	0
31	Structure of H₂Ti₃O₇and its evolution during sodium insertion as anode for Na ion batteries. Physical Chemistry Chemical Physics, 2015, 17, 6988-6994.	1.3	46
32	Composition and Evolution of the Solid-Electrolyte Interphase in Na₂Ti₃O₇ Electrodes for Na-Ion Batteries: XPS and Auger Parameter Analysis. ACS Applied Materials & Interfaces, 2015, 7, 7801-7808.	4.0	164
33	Oligomeric-Schiff bases as negative electrodes for sodium ion batteries: unveiling the nature of their active redox centers. Energy and Environmental Science, 2015, 8, 3233-3241.	15.6	97
34	Tunneling phenomena in aligned multi-walled carbon nanotube sheets: conductivity and Raman correlations. Materials Research Express, 2014, 1, 045603.	0.8	2
35	Polymeric Schiff Bases as Lowâ€Voltage Redox Centers for Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2014, 53, 5341-5345.	7.2	170
36	High temperature structural transformations of few layer graphene nanoribbons obtained by unzipping carbon nanotubes. Journal of Materials Chemistry A, 2014, 2, 221-228.	5.2	32

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37	K1âˆ’Fe2+/3(CN)6Â·yH2O, Prussian Blue as a displacement anode for lithium ion batteries. Journal of Power Sources, 2014, 271, 489-496.	4.0	43
38	Update on Na-based battery materials. A growing research path. Energy and Environmental Science, 2013, 6, 2312.	15.6	886
39	Comprehensive Insights into the Structural and Chemical Changes in Mixed-Anion FeOF Electrodes by Using Operando PDF and NMR Spectroscopy. Journal of the American Chemical Society, 2013, 135, 4070-4078.	6.6	124
40	Reconstructed Ribbon Edges in Thermally Reduced Graphene Nanoribbons. Journal of Physical Chemistry C, 2012, 116, 24006-24015.	1.5	20
41	Oriented Graphene Nanoribbon Yarn and Sheet from Aligned Multiâ€Walled Carbon Nanotube Sheets. Advanced Materials, 2012, 24, 5695-5701.	11.1	67
42	Photoinduced Optical Transparency in Dye-Sensitized Solar Cells Containing Graphene Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 25125-25131.	1.5	35
43	Highly Stable Cooperative Distortion in a Weak Jahnâ€"Teller d² Cation: Perovskite-Type ScVO₃ Obtained by High-Pressure and High-Temperature Transformation from Bixbyite. Journal of the American Chemical Society, 2011, 133, 8552-8563.	6.6	31
44	Biscrolling Nanotube Sheets and Functional Guests into Yarns. Science, 2011, 331, 51-55.	6.0	338
45	Thermal actuation of graphene oxide nanoribbon mats. Chemical Physics Letters, 2011, 505, 31-36.	1.2	15
46	Magneto-thermal and dielectric properties of biferroic YCrO3 prepared by combustion synthesis. Journal of Solid State Chemistry, 2010, 183, 1863-1871.	1.4	88
47	Spinel to CaFe₂O₄ Transformation: Mechanism and Properties of Î²-CdCr₂O₄. Inorganic Chemistry, 2010, 49, 2827-2833.	1.9	29
48	The A(II)Cr(IV)O3 (A=Sr, Ca, Pb) â€˜simpleâ€™ perovskites. Structure and properties: magnetic structure of CaCrO3. High Pressure Research, 2009, 29, 254-260.	0.4	14
49	Structure, microstructure and magnetic properties of Sr1âˆ’xCaxCrO3 (0â©½xâ©½1). Journal of Solid State Chemistry, 2008, 181, 895-904.	1.4	37
50	Structure and microstructure of the high pressure synthesised misfit layer compound [Sr2O2][CrO2]1.85. Journal of Solid State Chemistry, 2008, 181, 1840-1847.	1.4	10
51	Electron energy loss spectroscopy in ACrO₃(A = Ca, Sr and Pb) perovskites. Journal of Physics Condensed Matter, 2008, 20, 505207.	0.7	17
52	Increasing the Structural Complexity of Chromium(IV) Oxides by High-Pressure and High-Temperature Reactions of CrO₂. Inorganic Chemistry, 2008, 47, 8526-8542.	1.9	22
53	A Study of [Cr-O6]-based rutile analogues by means of EELS. Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	1
54	Revisiting the High Pressure Ternary Oxides of Cr(IV): Structures and Microstructures. , 2008, , .		1

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55	Revisiting the Srâ€“Cr(IV)â€“O system at high pressure and temperature with special reference to Sr3Cr2O7. Solid State Sciences, 2007, 9, 564-573.	1.5	27
56	High-temperature neutron diffraction study of the cation ordered perovskites TbBaMn2O5+x and TbBaMn2O5.5â^'y. Journal of Solid State Chemistry, 2006, 179, 3505-3510.	1.4	16
57	Optical and morphological study of disorder in opals. Journal of Applied Physics, 2005, 97, 063502.	1.1	53
58	Optical and morphological study of compound polymer opals. , 2004, , .		0
59	Optical study of the pseudogap in thickness and orientation controlled artificial opals. Physical Review B, 2003, 68, .	1.1	188