Robert Dominko

List of Publications by Year
in descending order

167 papers	12,189 citations	20817 60 h-index	26613 107 g-index
183 all docs	183 docs citations	183 times ranked	10352 citing authors

#	Article	IF	Citations
1	Visualization of O-O peroxo-like dimers in high-capacity layered oxides for Li-ion batteries. Science, 2015, 350, 1516-1521.	12.6	659
2	Cathode Composites for Liâ€“S Batteries via the Use of Oxygenated Porous Architectures. Journal of the American Chemical Society, 2011, 133, 16154-16160.	13.7	568
3	Impact of the Carbon Coating Thickness on the Electrochemical Performance of LiFePO[sub 4]/C Composites. Journal of the Electrochemical Society, 2005, 152, A607.	2.9	445
4	Structure and electrochemical performance of Li2MnSiO4 and Li2FeSiO4 as potential Li-battery cathode materials. Electrochemistry Communications, 2006, 8, 217-222.	4.7	430
5	Is small particle size more important than carbon coating? An example study on LiFePO4 cathodes. Electrochemistry Communications, 2007, 9, 2778-2783.	4.7	401
6	Improved Electrode Performance of Porous LiFePO₄ Using RuO₂ as an Oxidic Nanoscale Interconnect. Advanced Materials, 2007, 19, 1963-1966.	21.0	380
7	Li2MSiO4 (M=Fe and/or Mn) cathode materials. Journal of Power Sources, 2008, 184, 462-468.	7.8	340
8	Silicate cathodes for lithium batteries: alternatives to phosphates?. Journal of Materials Chemistry, 2011, 21, 9811.	6.7	310
9	The Importance of Interphase Contacts in Li Ion Electrodes: The Meaning of the High-Frequency Impedance Arc. Electrochemical and Solid-State Letters, 2008, 11, A170.	2.2	306
10	Porous olivine composites synthesized by solâ€“gel technique. Journal of Power Sources, 2006, 153, 274-280.	7.8	260
11	The role of carbon black distribution in cathodes for Li ion batteries. Journal of Power Sources, 2003, 119-121, 770-773.	7.8	255
12	Beyond One-Electron Reaction in Li Cathode Materials: Â Designing Li2MnxFe1-xSiO4. Chemistry of Materials, 2007, 19, 3633-3640.	6.7	245
13	Liâ€S Battery Analyzed by UV/Vis in Operando Mode. ChemSusChem, 2013, 6, 1177-1181.	6.8	243
14	Dichalcogenide Nanotube Electrodes for Li-Ion Batteries. Advanced Materials, 2002, 14, 1531-1534.	21.0	206
15	Dependence of Li₂FeSiO₄ Electrochemistry on Structure. Journal of the American Chemical Society, 2011, 133, 1263-1265.	13.7	204
16	Wired Porous Cathode Materials:Â A Novel Concept for Synthesis of LiFePO4. Chemistry of Materials, 2007, 19, 2960-2969.	6.7	200
17	Li2MnSiO4 as a potential Li-battery cathode material. Journal of Power Sources, 2007, 174, 457-461.	7.8	186
18	On the Energetic Stability and Electrochemistry of Li₂MnSiO₄ Polymorphs. Chemistry of Materials, 2008, 20, 5574-5584.	6.7	178

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19	Electroactive Organic Molecules Immobilized onto Solid Nanoparticles as a Cathode Material for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2010, 49, 7222-7224.	13.8	163
20	Understanding the Roles of Anionic Redox and Oxygen Release during Electrochemical Cycling of Lithium-Rich Layered Li₄FeSbO₆. Journal of the American Chemical Society, 2015, 137, 4804-4814.	13.7	155
21	Impact of synthesis conditions on the structure and performance of Li2FeSiO4. Journal of Power Sources, 2008, 178, 842-847.	7.8	154
22	Cellulose as a binding material in graphitic anodes for Li ion batteries: a performance and degradation study. Electrochimica Acta, 2003, 48, 883-889.	5.2	152
23	Influence of carbon black distribution on performance of oxide cathodes for Li ion batteries. Electrochimica Acta, 2003, 48, 3709-3716.	5.2	149
24	Concept and electrochemical mechanism of an Al metal anode â€' organic cathode battery. Energy Storage Materials, 2020, 24, 379-383.	18.0	138
25	Anthraquinoneâ€Based Polymer as Cathode in Rechargeable Magnesium Batteries. ChemSusChem, 2015, 8, 4128-4132.	6.8	137
26	Impact of LiFePO[sub 4]âˆ•C Composites Porosity on Their Electrochemical Performance. Journal of the Electrochemical Society, 2005, 152, A858.	2.9	126
27	Fluorinated Reduced Graphene Oxide as an Interlayer in Liâ€"S Batteries. Chemistry of Materials, 2015, 27, 7070-7081.	6.7	124
28	Rechargeable Batteries of the Futureâ€"The State of the Art from a BATTERY 2030+ Perspective. Advanced Energy Materials, 2022, 12, .	19.5	124
29	Lithium bis(fluorosulfonyl)imideâ€"PYR14TFSI ionic liquid electrolyte compatible with graphite. Journal of Power Sources, 2011, 196, 7700-7706.	7.8	119
30	Application of In Operando UV/Vis Spectroscopy in Lithiumâ€"Sulfur Batteries. ChemSusChem, 2014, 7, 2167-2175.	6.8	115
31	A Novel Coating Technology for Preparation of Cathodes in Li-Ion Batteries. Electrochemical and Solid-State Letters, 2001, 4, A187.	2.2	114
32	Xâ€ray Absorption Nearâ€Edge Structure and Nuclear Magnetic Resonance Study of the Lithiumâ€"Sulfur Battery and its Components. ChemPhysChem, 2014, 15, 894-904.	2.1	113
33	Polymorphism and structural defects in Li2FeSiO4. Dalton Transactions, 2010, 39, 6310.	3.3	110
34	Crystal Structure of a New Polymorph of Li₂FeSiO₄. Inorganic Chemistry, 2010, 49, 7446-7451.	4.0	109
35	Mechanistic Study of Magnesiumâ€"Sulfur Batteries. Chemistry of Materials, 2017, 29, 9555-9564.	6.7	101
36	Probing electrochemical reactions in organic cathode materials via in operando infrared spectroscopy. Nature Communications, 2018, 9, 661.	12.8	100

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37	Porous, carbon-decorated LiFePO prepared by solâ€“gel method based on citric acid. Solid State Ionics, 2005, 176, 1801-1805.	2.7	99
38	Morphology and electrical properties of conductive carbon coatings for cathode materials. Journal of Power Sources, 2007, 174, 683-688.	7.8	93
39	Synthesis of Nanometric LiMnPO₄ via a Two-Step Technique. Chemistry of Materials, 2012, 24, 1041-1047.	6.7	91
40	Analytical detection of soluble polysulphides in a modified Swagelok cell. Electrochemistry Communications, 2011, 13, 117-120.	4.7	89
41	<i>Operando</i>characterization of batteries using x-ray absorption spectroscopy: advances at the beamline XAFS at synchrotron Elettra. Journal Physics D: Applied Physics, 2017, 50, 074001.	2.8	85
42	Optical properties of exfoliated MoS2 coaxial nanotubes - analogues of graphene. Nanoscale Research Letters, 2011, 6, 593.	5.7	83
43	The mechanism of Li2S activation in lithium-sulfur batteries: Can we avoid the polysulfide formation?. Journal of Power Sources, 2017, 344, 208-217.	7.8	82
44	Electrochemical performance and redox mechanism of naphthalene-hydrazine diimide polymer as a cathode in magnesium battery. Journal of Power Sources, 2018, 395, 25-30.	7.8	76
45	Carbon nanocoatings on active materials for Li-ion batteries. Journal of the European Ceramic Society, 2007, 27, 909-913.	5.7	75
46	Fluorinated Ether Based Electrolyte for High-Energy Lithiumâ€“Sulfur Batteries: Li⁺ Solvation Role Behind Reduced Polysulfide Solubility. Chemistry of Materials, 2017, 29, 10037-10044.	6.7	75
47	Biomassâ€Derived Heteroatomâ€Doped Carbon Aerogels from a Salt Melt Solâ€“Gel Synthesis and their Performance in Liâ€“S Batteries. ChemSusChem, 2015, 8, 3077-3083.	6.8	72
48	Electrolyte Reactivity in the Double Layer in Mg Batteries: An Interface Potential-Dependent DFT Study. Journal of the American Chemical Society, 2020, 142, 5146-5153.	13.7	71
49	Magnesium batteries: Current picture and missing pieces of the puzzle. Journal of Power Sources, 2020, 478, 229027.	7.8	70
50	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. Advanced Energy Materials, 2022, 12, .	19.5	70
51	6Li MAS NMR spectroscopy and first-principles calculations as a combined tool for the investigation of Li2MnSiO4 polymorphs. Chemical Communications, 2010, 46, 3306.	4.1	68
52	Synthesis of 3D Hierarchical Self-Assembled Microstructures Formed from Î±-MnO₂ Nanotubes and Their Conducting and Magnetic Properties. Journal of Physical Chemistry C, 2009, 113, 14798-14803.	3.1	67
53	Electrochemically stabilised quinone based electrode composites for Li-ion batteries. Journal of Power Sources, 2012, 199, 308-314.	7.8	67
54	On the Origin of the Electrochemical Capacity of Li[sub 2]Fe[sub 0.8]Mn[sub 0.2]SiO[sub 4]. Journal of the Electrochemical Society, 2010, 157, A1309.	2.9	66

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55	Graphite and LiCo1/3Mn1/3Ni1/3O2 electrodes with piperidinium ionic liquid and lithium bis(fluorosulfonyl)imide for Li-ion batteries. Journal of Power Sources, 2012, 205, 402-407.	7.8	66
56	Li₂FeSiO₄ Polymorphs Probed by ⁶Li MAS NMR and ⁵⁷Fe MÃ¶ssbauer Spectroscopy. Chemistry of Materials, 2011, 23, 2735-2744.	6.7	65
57	Electrochemical Behavior of Li[sub 2]FeSiO[sub 4] with Ionic Liquids at Elevated Temperature. Journal of the Electrochemical Society, 2009, 156, A619.	2.9	64
58	Effective Separation of Lithium Anode and Sulfur Cathode in Lithiumâ€"Sulfur Batteries. ChemElectroChem, 2014, 1, 1040-1045.	3.4	64
59	Analytical Detection of Polysulfides in the Presence of Adsorption Additives by Operando X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 19001-19010.	3.1	64
60	Stabilizers of Particle Size and Morphology: a Road Towards Highâ€Rate Performance Insertion Materials. Advanced Materials, 2009, 21, 2715-2719.	21.0	63
61	Reactivity and Diffusivity of Li Polysulfides: A Fundamental Study Using Impedance Spectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 29760-29770.	8.0	61
62	A3V2(PO4)3 (AÂ=ÂNa or Li) probed by in situ X-ray absorption spectroscopy. Journal of Power Sources, 2012, 216, 145-151.	7.8	60
63	Which Process Limits the Operation of a Liâ€"S System?. Chemistry of Materials, 2019, 31, 9012-9023.	6.7	56
64	Polymorphism in Li2(Fe,Mn)SiO4: A combined diffraction and NMR study. Journal of Materials Chemistry, 2011, 21, 17823.	6.7	55
65	Poly(hydroquinoyl-benzoquinonyl sulfide) as an active material in Mg and Li organic batteries. Electrochemistry Communications, 2016, 69, 1-5.	4.7	54
66	Linear and Cross-Linked Ionic Liquid Polymers as Binders in Lithiumâ€"Sulfur Batteries. Chemistry of Materials, 2018, 30, 5444-5450.	6.7	53
67	Morphological Reversibility of Modified Li-Based Anodes for Next-Generation Batteries. ACS Energy Letters, 2020, 5, 152-161.	17.4	53
68	Fluorinated reduced graphene oxide as a protective layer on the metallic lithium for application in the high energy batteries. Scientific Reports, 2018, 8, 5819.	3.3	51
69	Electrochemical activity of Li2FeTiO4 and Li2MnTiO4 as potential active materials for Li ion batteries: A comparison with Li2NiTiO4. Journal of Power Sources, 2009, 189, 81-88.	7.8	50
70	Alkali hexatitanatesâ€"A2Ti6O13 (A = Na, K) as host structure for reversible lithium insertion. Journal of Power Sources, 2007, 174, 1172-1176.	7.8	49
71	The Influence of the Reaction Temperature on the Morphology of Sodium Titanate 1D Nanostructures and Their Thermal Stability. Journal of Nanoscience and Nanotechnology, 2007, 7, 3502-3508.	0.9	47
72	Selfâ€Healing: An Emerging Technology for Nextâ€Generation Smart Batteries. Advanced Energy Materials, 2022, 12, 2102652.	19.5	47

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73	Carbon anodes prepared from graphite particles pretreated in a gelatine solution. Journal of Power Sources, 2001, 94, 97-101.	7.8	46
74	A comparative study of magnetic properties of LiFePO4and LiMnPO4. Journal of Physics Condensed Matter, 2004, 16, 5531-5548.	1.8	44
75	Low surface area graphene/cellulose composite as a host matrix for lithium sulphur batteries. Journal of Power Sources, 2014, 254, 55-61.	7.8	44
76	Electrochemical Performance and Mechanism of Calcium Metalâ€•Organic Battery. Batteries and Supercaps, 2021, 4, 214-220.	4.7	44
77	Singular Structural and Electrochemical Properties in Highly Defective LiFePO₄ Powders. Chemistry of Materials, 2015, 27, 4261-4273.	6.7	43
78	Quinone-formaldehyde polymer as an active material in Li-ion batteries. Journal of Power Sources, 2016, 315, 169-178.	7.8	43
79	Improved carbon anode properties: pretreatment of particles in polyelectrolyte solution. Journal of Power Sources, 2001, 97-98, 67-69.	7.8	42
80	Recent developments of Na4M3(PO4)2(P2O7) as the cathode material for alkaline-ion rechargeable batteries: challenges and outlook. Energy Storage Materials, 2021, 37, 243-273.	18.0	41
81	Novel Complex Stacking of Fully-Ordered Transition Metal Layers in Li₄FeSbO₆ Materials. Chemistry of Materials, 2015, 27, 1699-1708.	6.7	40
82	Effect of salts on the electrochemical performance of Mg metalâ€’organic battery. Journal of Power Sources, 2019, 430, 90-94.	7.8	40
83	Impedance response of porous carbon cathodes in polysulfide redox system. Electrochimica Acta, 2019, 302, 169-179.	5.2	39
84	Mass and charge transport in hierarchically organized storage materials. Example: Porous active materials with nanocoated walls of pores. Solid State Ionics, 2006, 177, 3015-3022.	2.7	38
85	A Powerful Transmission Line Model for Analysis of Impedance of Insertion Battery Cells: A Case Study on the NMC-Li System. Journal of the Electrochemical Society, 2020, 167, 140539.	2.9	38
86	Polysulfides Formation in Different Electrolytes from the Perspective of X-ray Absorption Spectroscopy. Journal of the Electrochemical Society, 2018, 165, A5014-A5019.	2.9	37
87	Lithium Metal Protection by a Cross-Linked Polymer Ionic Liquid and Its Application in Lithium Battery. ACS Applied Energy Materials, 2020, 3, 2020-2027.	5.1	37
88	Manganese modified zeolite silicalite-1 as polysulphide sorbent in lithium sulphur batteries. Journal of Power Sources, 2015, 274, 1239-1248.	7.8	35
89	Electrochemical characteristics of Li2âˆ’xVTiO4 rock salt phase in Li-ion batteries. Journal of Power Sources, 2011, 196, 6856-6862.	7.8	34
90	The meaning of impedance measurements of LiFePO4 cathodes: A linearity study. Journal of Power Sources, 2007, 174, 944-948.	7.8	32

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91	Tracking electrochemical reactions inside organic electrodes by operando IR spectroscopy. Energy Storage Materials, 2019, 21, 347-353.	18.0	32
92	Detailed In Situ Investigation of the Electrochemical Processes in Li[sub 2]FeTiO[sub 4] Cathodes. Journal of the Electrochemical Society, 2009, 156, A809.	2.9	31
93	Application of Gel Polymer Electrolytes Based on Ionic Liquids in Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2016, 163, A2390-A2398.	2.9	31
94	Aluminum Metalâ€“Organic Batteries with Integrated 3D Thin Film Anodes. Advanced Functional Materials, 2020, 30, 2004573.	14.9	30
95	Spectroscopic Insights into the Electrochemical Mechanism of Rechargeable Calcium/Sulfur Batteries. Chemistry of Materials, 2020, 32, 8266-8275.	6.7	29
96	Electrochemical preparation and characterisation of LizMoS2âˆ'x nanotubes. Electrochimica Acta, 2003, 48, 3079-3084.	5.2	27
97	The Role of Cellulose Based Separator in Lithium Sulfur Batteries. Journal of the Electrochemical Society, 2019, 166, A5237-A5243.	2.9	27
98	Ion-conducting lithium bis(oxalato)borate-based polymer electrolytes. Journal of Power Sources, 2009, 189, 133-138.	7.8	26
99	The physicochemical properties of a [DEME][TFSI] ionic liquid-based electrolyte and their influence on the performance of lithiumâ€“sulfur batteries. Electrochimica Acta, 2017, 252, 147-153.	5.2	26
100	Building <i>Ab Initio</i> Interface Pourbaix diagrams to Investigate Electrolyte Stability in the Electrochemical Double Layer: Application to Magnesium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 8263-8273.	8.0	25
101	Tailoring nanostructured TiO2 for high power Li-ion batteries. Journal of Power Sources, 2009, 189, 869-874.	7.8	23
102	In situ Fe K-edge X-ray absorption spectroscopy study during cycling of Li₂FeSiO₄ and Li_{2.2}Fe_{0.9}SiO₄ Li ion battery materials. Journal of Materials Chemistry A, 2015, 3, 7314-7322.	10.3	23
103	Polysulfide species in various electrolytes of Li-S batteries â€“ a chromatographic investigation. Electrochimica Acta, 2020, 363, 137227.	5.2	23
104	Electron spin resonance of doped chalcogenide nanotubes. Physical Review B, 2003, 67, .	3.2	21
105	Role of Cu current collector on electrochemical mechanism of Mgâ€“S battery. Journal of Power Sources, 2020, 450, 227672.	7.8	21
106	Electrochemical Mechanism of Al Metalâ€“Organic Battery Based on Phenanthrenequinone. Energy Material Advances, 2021, 2021, .	11.0	21
107	Understanding 6Li MAS NMR spectra of Li2MSiO4 materials (M=Mn, Fe, Zn). Solid State Nuclear Magnetic Resonance, 2012, 42, 33-41.	2.3	20
108	Morphology evolution of magnesium facets: DFT and KMC simulations. Physical Chemistry Chemical Physics, 2019, 21, 2434-2442.	2.8	20

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109	Implications of the BATTERY 2030+ AIâ€Assisted Toolkit on Future Lowâ€TRL Battery Discoveries and Chemistries. Advanced Energy Materials, 2022, 12, 2102698.	19.5	20
110	Nonstochiometry in LiFe_{0.5}Mn_{0.5}PO₄: Structural and Electrochemical Properties. Journal of the Electrochemical Society, 2013, 160, A1446-A1450.	2.9	19
111	Opportunities and Challenges in the Development of Cathode Materials for Rechargeable Mg Batteries. Frontiers in Chemistry, 2018, 6, 634.	3.6	19
112	Data Management Plans: the Importance of Data Management in the BIGâ€MAP Project**. Batteries and Supercaps, 2021, 4, 1803-1812.	4.7	19
113	On the Practical Applications of the Magnesium Fluorinated Alkoxyaluminate Electrolyte in Mg Battery Cells. ACS Applied Materials & Interfaces, 2022, 14, 26766-26774.	8.0	19
114	Synthesis, structure, and magnetic properties of iron-oxide nanowires. Journal of Materials Research, 2006, 21, 2955-2962.	2.6	18
115	Synthesis, Structure, and Electrochemical Properties of Na3MB5O10 (M = Fe, Co) Containing M2+ in Tetrahedral Coordination. Inorganic Chemistry, 2016, 55, 12775-12782.	4.0	18
116	Effect of Clâˆ’ and TFSIâˆ’ anions on dual electrolyte systems in a hybrid Mg/Li4Ti5O12 battery. Electrochemistry Communications, 2017, 76, 29-33.	4.7	17
117	Fluorinated solvents for better batteries. Nature Reviews Chemistry, 2022, 6, 449-450.	30.2	16
118	Ionic Liquids and their Polymers in Lithiumâ€Sulfur Batteries. Israel Journal of Chemistry, 2019, 59, 832-842.	2.3	15
119	Effect of high concentration of polysulfides on Li stripping and deposition. Electrochimica Acta, 2020, 354, 136696.	5.2	15
120	Polymorphism in Li₂<i>M</i>SiO₄ (<i>M</i> = Fe, Mn): A Variable Temperature Diffraction Study. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1043-1049.	1.2	14
121	Redoxâ€Active Functionalized Graphene Nanoribbons as Electrode Material for Liâ€Ion Batteries. ChemElectroChem, 2014, 1, 2131-2137.	3.4	14
122	Electrochemical activity and high ionic conductivity of lithium copper pyroborate Li₆CuB₄O₁₀. Physical Chemistry Chemical Physics, 2016, 18, 14960-14969.	2.8	14
123	Alloying electrode coatings towards better magnesium batteries. Journal of Materials Chemistry A, 2022, 10, 12104-12113.	10.3	14
124	Magnetic properties of MoS 2 nanotubes doped with lithium. Polyhedron, 2003, 22, 2293-2295.	2.2	13
125	Stable Crystalline Forms of Na Polysulfides: Experiment versus Ab Initio Computational Prediction. Chemistry - A European Journal, 2016, 22, 3355-3360.	3.3	13
126	The Pitfalls and Opportunities of Impedance Spectroscopy of Lithium Sulfur Batteries. Advanced Materials Interfaces, 2022, 9, 2101116.	3.7	13

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127	Local Coordination and Valence States of Cobalt in Sodium Titanate Nanoribbons. Journal of Physical Chemistry C, 2012, 116, 11357-11363.	3.1	12
128	1,2,4,5-Tetramethoxybenzene as a redox shuttle and their analogues in Li-ion batteries. Journal of Power Sources, 2013, 235, 214-219.	7.8	12
129	Advances in understanding Li battery mechanisms using impedance spectroscopy - Review. Journal of Electrochemical Science and Engineering, 2020, 10, 79-93.	3.5	11
130	Structural study of monoclinic Li2FeSiO4 by X-ray diffraction and MÃ¶ssbauer spectroscopy. Journal of Power Sources, 2014, 265, 75-80.	7.8	10
131	Pulse combustion reactor as a fast and scalable synthetic method for preparation of Li-ion cathode materials. Journal of Power Sources, 2017, 363, 218-226.	7.8	10
132	Electrochemical behavior of Bi₄B₂O₉towards lithium-reversible conversion reactions without nanosizing. Physical Chemistry Chemical Physics, 2018, 20, 2330-2338.	2.8	9
133	Electrochemical Performance of Mg Metalâ€Quinone Battery in Chlorideâ€Free Electrolyte. Batteries and Supercaps, 2021, 4, 815-822.	4.7	9
134	Electrochemical Kinetics Study of Interaction Between Li Metal and Polysulfides. Journal of the Electrochemical Society, 2020, 167, 080526.	2.9	8
135	Characterization of Liâ€"S Batteries Using Laboratory Sulfur X-ray Emission Spectroscopy. ACS Applied Energy Materials, 2021, 4, 2357-2364.	5.1	8
136	Silicates and titanates as high-energy cathode materials for Li-ion batteries. , 2010, , .		7
137	Ceramic synthesis of disordered lithium rich oxyfluoride materials. Journal of Power Sources, 2020, 467, 228230.	7.8	7
138	Sulfur valence-to-core X-ray emission spectroscopy study of lithium sulfur batteries. Chemical Communications, 2021, 57, 7573-7576.	4.1	7
139	Magnesium Polysulfides: Synthesis, Disproportionation, and Impedance Response in Symmetrical Carbon Electrode Cells. ChemElectroChem, 2021, 8, 1062-1069.	3.4	7
140	Editorial to the Special Issue: How to Reinvent the Ways to Invent the Batteries of the Future â€" the Battery 2030+ Largeâ€Scale Research Initiative Roadmap. Advanced Energy Materials, 2022, 12, .	19.5	6
141	Preparation, characterisation and optimisation of lithium battery anodes consisting of silicon synthesised using Laser assisted Chemical Vapour Pyrolysis. Journal of Power Sources, 2015, 273, 380-388.	7.8	5
142	Impact of Structural Polymorphism on Ionic Conductivity in Lithium Copper Pyroborate Li₆CuB₄O₁₀. Inorganic Chemistry, 2018, 57, 11646-11654.	4.0	5
143	Transmission Line Model Impedance Analysis of Lithium Sulfur Batteries: Influence of Lithium Sulfide Deposit Formed During Discharge and Self-Discharge. Journal of the Electrochemical Society, 2022, 169, 010529.	2.9	4
144	Characterization of Electrochemical Processes in Metalâ€"Organic Batteries by X-ray Raman Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 5435-5442.	3.1	4

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145	The use of methylcellulose for the synthesis of Li2FeSiO4/C composites. Cellulose, 2016, 23, 239-246.	4.9	3
146	Effects of a Mixed O/F Ligand in the Tavorite-Type LiVPO₄O Structure. Chemistry of Materials, 2020, 32, 262-272.	6.7	3
147	Extending the Conversion Rate of Sulfur Infiltrated into Microporous Carbon in Carbonate Electrolytes. Batteries and Supercaps, 2022, 5, .	4.7	3
148	Nanostructured Poly(hydroquinonyl-benzoquinonyl sulfide)/Multiwalled Carbon Nanotube Composite Cathodes: Improved Synthesis and Performance for Rechargeable Li and Mg Organic Batteries. Chemistry of Materials, 2022, 34, 6378-6388.	6.7	3
149	Sulphured Polyacrylonitrile Composite Analysed by in operando UV-Visible Spectroscopy and 4-electrode Swagelok Cell. Acta Chimica Slovenica, 2016, 63, 569-577.	0.6	2
150	Gelatin-modified surfaces in selected electronic components. , 2001, , 177-179.		1
151	A New Cell Configuration for a More Precise Electrochemical Evaluation of an Artificial Solidâ€Electrolyte Interphase. Batteries and Supercaps, 2021, 4, 623-631.	4.7	1
152	Magnesium Insertion and Related Structural Changes in Spinel-Type Manganese Oxides. Crystals, 2021, 11, 984.	2.2	1
153	Ceramic Synthesis of Disordered Lithium Rich Oxyfluoride and the Impact of Their Defects in Electrochemical Performances. ECS Meeting Abstracts, 2019, , .	0.0	1
154	ESR Study of Electrochemically Doped Chalcogenide Nanotubes. Materials Research Society Symposia Proceedings, 2003, 775, 9261.	0.1	1
155	High frequency response of adenine-derived carbon in aqueous electrochemical capacitor. Electrochimica Acta, 2022, 424, 140649.	5.2	1
156	Temperature dependent ESR of doped chalcogenide nanotubes. AIP Conference Proceedings, 2003, , .	0.4	0
157	Back Cover: Effective Separation of Lithium Anode and Sulfur Cathode in Lithium-Sulfur Batteries (ChemElectroChem 6/2014). ChemElectroChem, 2014, 1, 1086-1086.	3.4	0
158	Analytical Techniques for Lithiumâ€“Sulfur Batteries. , 2017, , 275-307.		0
159	Insight into Mg-S Battery Mechanism. ECS Meeting Abstracts, 2018, , .	0.0	0
160	Redox Mechanisms and Film Formation at Interfaces in Lithium-sulfur Battery System. ECS Meeting Abstracts, 2019, , .	0.0	0
161	(Keynote) Important and Less Important Challenges of Metal Sulfur Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
162	How Do Li-S Electrolytes with Reduced Polysulfide Solubility Work â€“ an Impedance Spectroscopy Investigation. ECS Meeting Abstracts, 2019, , .	0.0	0

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163	Fluorination of Vanadium Oxy-Phosphate By Lif: Electrochemical Behavior in Li-Ion Battery. ECS Meeting Abstracts, 2019, , .	0.0	0
164	(Invited) Magnesium Organic Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
165	Modelling the Electrode/Electrolyte Interfaces. ECS Meeting Abstracts, 2019, , .	0.0	0
166	Lithium sulfur batteries: Electrochemistry and mechanistic research. , 2021, , .		0
167	Transmission Line Model of Battery Cell's Impedance: Theory Vs. Experiments. ECS Meeting Abstracts, 2020, MA2020-02, 186-186.	0.0	0