

Pedro Lavela

List of Publications by Year in descending order

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8,573
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38720

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times ranked

8291
citing authors

#	ARTICLE	IF	CITATIONS
1	NiCo ₂ O ₄ Spinel: A First Report on a Transition Metal Oxide for the Negative Electrode of Sodium-Ion Batteries. Chemistry of Materials, 2002, 14, 2847-2848.	3.2	458
2	Carbon black: a promising electrode material for sodium-ion batteries. Electrochemistry Communications, 2001, 3, 639-642.	2.3	355
3	Alternative Li-Ion Battery Electrode Based on Self-Organized Titania Nanotubes. Chemistry of Materials, 2009, 21, 63-67.	3.2	320
4	Carbon Microspheres Obtained from Resorcinol-Formaldehyde as High-Capacity Electrodes for Sodium-Ion Batteries. Electrochemical and Solid-State Letters, 2005, 8, A222.	2.2	313
5	CoFe ₂ O ₄ and NiFe ₂ O ₄ synthesized by sol-gel procedures for their use as anode materials for Li ion batteries. Journal of Power Sources, 2007, 172, 379-387.	4.0	306
6	Sol-gel preparation of cobalt manganese mixed oxides for their use as electrode materials in lithium cells. Electrochimica Acta, 2007, 52, 7986-7995.	2.6	146
7	Effect of Iron Substitution in the Electrochemical Performance of Na ₃ V ₂ (PO ₄) ₃ as Cathode for Na-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A3077-A3083.	1.3	141
8	Structure and Electrochemical Properties of Boron-Doped LiCoO ₂ . Journal of Solid State Chemistry, 1997, 134, 265-273.	1.4	140
9	TiO ₂ nanotubes manufactured by anodization of Ti thin films for on-chip Li-ion 2D microbatteries. Electrochimica Acta, 2009, 54, 4262-4268.	2.6	137
10	Benefits of Chromium Substitution in Na ₃ V ₂ (PO ₄) ₃ as a Potential Candidate for Sodium-Ion Batteries. ChemElectroChem, 2015, 2, 995-1002.	1.7	137
11	Characterisation of mesocarbon microbeads (MCMB) as active electrode material in lithium and sodium cells. Carbon, 2000, 38, 1031-1041.	5.4	136
12	Optimizing preparation conditions for 5 V electrode performance, and structural changes in Li _{1-x} Ni _{0.5} Mn _{1.5} O ₄ spinel. Electrochimica Acta, 2002, 47, 1829-1835.	2.6	134
13	Electrochemical reaction of lithium with the CoSb ₃ skutterudite. Journal of Materials Chemistry, 1999, 9, 2517-2521.	6.7	128
14	Enhanced high-rate performance of manganese substituted Na ₃ V ₂ (PO ₄) ₃ /C as cathode for sodium-ion batteries. Journal of Power Sources, 2016, 313, 73-80.	4.0	126
15	Structural and Electrochemical Study of New LiNi _{0.5} Ti _x Mn _{1.5-x} O ₄ Spinel Oxides for 5-V Cathode Materials. Chemistry of Materials, 2003, 15, 2376-2382.	3.2	121
16	X-ray diffraction and electrochemical impedance spectroscopy study of zinc coated LiNi _{0.5} Mn _{1.5} O ₄ electrodes. Journal of Electroanalytical Chemistry, 2004, 566, 187-192.	1.9	121
17	N-doped monolithic carbon aerogel electrodes with optimized features for the electrosorption of ions. Carbon, 2015, 83, 262-274.	5.4	118
18	Effect of aluminum doping on carbon loaded Na ₃ V ₂ (PO ₄) ₃ as cathode material for sodium-ion batteries. Electrochimica Acta, 2015, 180, 824-830.	2.6	115

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19	Changes in oxidation state and magnetic order of iron atoms during the electrochemical reaction of lithium with NiFe ₂ O ₄ . <i>Electrochemistry Communications</i> , 2003, 5, 16-21.	2.3	109
20	Changes in the Local Structure of LiMg _y Ni _{0.5-y} Mn _{1.5} O ₄ Electrode Materials during Lithium Extraction. <i>Chemistry of Materials</i> , 2004, 16, 1573-1579.	3.2	107
21	Nanoarchitected TiO ₂ /SnO ₂ : A Future Negative Electrode for High Power Density Li-Ion Microbatteries?. <i>Chemistry of Materials</i> , 2010, 22, 1926-1932.	3.2	107
22	Advancing towards a veritable calcium-ion battery: CaCo ₂ O ₄ positive electrode material. <i>Electrochemistry Communications</i> , 2016, 67, 59-64.	2.3	107
23	Formation and Oxidation of Nanosized Metal Particles by Electrochemical Reaction of Li and Na with NiCo ₂ O ₄ : X-ray Absorption Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4636-4642.	1.5	103
24	Na ₃ V ₂ (PO ₄) ₃ /C Nanorods with Improved Electrode/Electrolyte Interface As Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23151-23159.	4.0	92
25	Reversible intercalation of aluminium into vanadium pentoxide xerogel for aqueous rechargeable batteries. <i>RSC Advances</i> , 2016, 6, 62157-62164.	1.7	91
26	A novel architected negative electrode based on titania nanotube and iron oxide nanowire composites for Li-ion microbatteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 4041.	6.7	88
27	Photoelectron Spectroscopic Study of the Reaction of Li and Na with NiCo ₂ O ₄ . <i>Chemistry of Materials</i> , 2005, 17, 5202-5208.	3.2	85
28	Electrochemical evaluation of CuFe ₂ O ₄ samples obtained by sol-gel methods used as anodes in lithium batteries. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 729-737.	1.2	85
29	On the electrochemical performance of anthracite-based graphite materials as anodes in lithium-ion batteries. <i>Fuel</i> , 2010, 89, 986-991.	3.4	84
30	The Origin of Capacity Fading in NiFe ₂ O ₄ Conversion Electrodes for Lithium Ion Batteries Unfolded by ⁵⁷ Fe Mössbauer Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12828-12832.	1.5	81
31	A novel method for metal oxide deposition on carbon aerogels with potential application in capacitive deionization of saline water. <i>Electrochimica Acta</i> , 2014, 135, 208-216.	2.6	81
32	Recent advances in the study of layered lithium transition metal oxides and their application as intercalation electrodes. <i>Journal of Solid State Electrochemistry</i> , 1999, 3, 121-134.	1.2	74
33	EPR, NMR, and Electrochemical Studies of Surface-Modified Carbon Microbeads. <i>Chemistry of Materials</i> , 2006, 18, 2293-2301.	3.2	71
34	Electrochemical and chemical insertion/deinsertion of magnesium in spinel-type MgMn ₂ O ₄ and λ-MnO ₂ for both aqueous and non-aqueous magnesium-ion batteries. <i>CrystEngComm</i> , 2015, 17, 8728-8735.	1.3	71
35	Electrochemical reactions of polycrystalline CrSb ₂ in lithium batteries. <i>Journal of Electroanalytical Chemistry</i> , 2001, 501, 205-209.	1.9	64
36	Improving the cyclability of sodium-ion cathodes by selection of electrolyte solvent. <i>Journal of Power Sources</i> , 2012, 197, 314-318.	4.0	64

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37	Applicability of Molybdate as an Electrode Material in Calcium Batteries: A Structural Study of Layer-type Ca_xMoO_3 . <i>Chemistry of Materials</i> , 2018, 30, 5853-5861.	3.2	63
38	X-ray Diffraction, EPR, and ^6Li and ^{27}Al MAS NMR Study of $\text{LiAlO}_2\text{-LiCoO}_2$ Solid Solutions. <i>Inorganic Chemistry</i> , 1998, 37, 264-269.	1.9	62
39	Improved Energy Storage Solution Based on Hybrid Oxide Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 46-56.	3.2	61
40	Lithium insertion mechanism in SnS_2 . <i>Physical Review B</i> , 2000, 61, 3110-3116.	1.1	60
41	High-Performance Transition Metal Mixed Oxides in Conversion Electrodes: A Combined Spectroscopic and Electrochemical Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14238-14246.	1.5	58
42	Electrochemical, textural and microstructural effects of mechanical grinding on graphitized petroleum coke for lithium and sodium batteries. <i>Carbon</i> , 2003, 41, 3003-3013.	5.4	57
43	Electrochemical response of carbon aerogel electrodes in saline water. <i>Journal of Electroanalytical Chemistry</i> , 2012, 671, 92-98.	1.9	57
44	Cationic distribution and electrochemical performance of $\text{LiCo}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$ electrodes for lithium-ion batteries. <i>Solid State Ionics</i> , 2008, 179, 2198-2208.	1.3	55
45	High reversible sodium insertion into iron substituted $\text{Na}_{1+x}\text{Ti}_2\text{Fe}_x(\text{PO}_4)_3$. <i>Journal of Power Sources</i> , 2014, 252, 208-213.	4.0	54
46	Changes in Structure and Cathode Performance with Composition and Preparation Temperature of Lithium Cobalt Nickel Oxide. <i>Journal of the Electrochemical Society</i> , 1998, 145, 730-736.	1.3	53
47	Synergistic Effects of Double Substitution in $\text{LiNi}_{0.5-y}\text{Fe}_y\text{Mn}_{1.5}\text{O}_4$ Spinel as 5 V Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2005, 152, A13.	1.3	53
48	EPR study on petroleum cokes annealed at different temperatures and used in lithium and sodium batteries. <i>Carbon</i> , 2002, 40, 2301-2306.	5.4	52
49	Lithium-Nickel Citrate Precursors for the Preparation of LiNiO_2 Insertion Electrodes. <i>Chemistry of Materials</i> , 1997, 9, 2145-2155.	3.2	51
50	NASICON-type $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ as a new positive electrode material for rechargeable aluminium battery. <i>Electrochimica Acta</i> , 2018, 260, 798-804.	2.6	51
51	X-ray Diffraction, ^7Li MAS NMR Spectroscopy, and ^{119}Sn Mössbauer Spectroscopy Study of SnSb-Based Electrode Materials. <i>Chemistry of Materials</i> , 2002, 14, 2962-2968.	3.2	49
52	On the effect of carbon content for achieving a high performing $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ nanocomposite as cathode for sodium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2017, 784, 47-54.	1.9	49
53	X-ray diffraction, ^{57}Fe Mössbauer and step potential electrochemical spectroscopy study of $\text{LiFe}_y\text{Co}_{1-y}\text{O}_2$ compounds. <i>Journal of Power Sources</i> , 1999, 81-82, 547-553.	4.0	48
54	Lithium insertion mechanism in Sb-based electrode materials from ^{121}Sb Mössbauer spectrometry. <i>Journal of Power Sources</i> , 2003, 119-121, 585-590.	4.0	48

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55	New $\text{LiNi}_y\text{Co}_{1-2y}\text{Mn}_{1+y}\text{O}_4$ Spinel Oxide Solid Solutions as 5 V Electrode Material for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2004, 151, A53.	1.3	48
56	^{57}Fe Mössbauer Spectroscopy and Electron Microscopy Study of Metal Extraction from CuFe_2O_4 Electrodes in Lithium Cells. <i>ChemPhysChem</i> , 2007, 8, 1999-2007.	1.0	47
57	$\text{Na}_3\text{V}_2(\text{PO}_4)_3$ as electrode material for rechargeable magnesium batteries: a case of sodium-magnesium hybrid battery. <i>Electrochimica Acta</i> , 2017, 246, 908-913.	2.6	47
58	On the role of faradaic and capacitive contributions in the electrochemical performance of CoFe_2O_4 as conversion anode for Li-ion cells. <i>Solid State Ionics</i> , 2010, 181, 616-622.	1.3	46
59	Improved lithium-ion transport in NASICON-type lithium titanium phosphate by calcium and iron doping. <i>Solid State Ionics</i> , 2014, 262, 573-577.	1.3	46
60	On the Reliability of Sodium Co-Intercalation in Expanded Graphite Prepared by Different Methods as Anodes for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3804-A3813.	1.3	44
61	Aluminium coordination in $\text{LiNi}_y\text{Al}_y\text{O}_2$ solid solutions. <i>Solid State Ionics</i> , 2000, 128, 1-10.	1.3	42
62	^{57}Fe Mössbauer Spectroscopy Study of the Electrochemical Reaction with Lithium of MFe_2O_4 (M = Co and Cu) Electrodes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20081-20087.	1.5	42
63	High-Performance $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Cathode for Sodium-Ion Batteries Prepared by a Ball-Milling-Assisted Method. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3212-3218.	1.0	42
64	Cobalt(III) Effect on ^{27}Al NMR Chemical Shifts in $\text{LiAl}_x\text{Co}_{1-x}\text{O}_2$. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8081-8087.	1.2	40
65	Transition metal oxide thin films with improved reversibility as negative electrodes for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 27, 152-155.	2.3	40
66	Treasure Na-ion anode from trash coke by adept electrolyte selection. <i>Journal of Power Sources</i> , 2017, 347, 127-135.	4.0	40
67	Effect of chromium doping on $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3@C$ as promising positive electrode for sodium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113694.	1.9	39
68	Nanocomposite Electrode for Li-Ion Microbatteries Based on SnO on Nanotubular Titania Matrix. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, A186.	2.2	37
69	Improved Surface Stability of $\text{C}_x\text{M}_y\text{O}_z@C$ Prepared by Ultrasonic Method as Cathode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1471-1478.	4.0	37
70	Nanometric $\text{P}_2\text{-Na}_2/3\text{Fe}_1/3\text{Mn}_2/3\text{O}_2$ with controlled morphology as cathode for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 724, 465-473.	2.8	37
71	Superior electrochemical performance of TiO_2 sodium-ion battery anodes in diglyme-based electrolyte solution. <i>Journal of Power Sources</i> , 2019, 432, 82-91.	4.0	37
72	Cation order/disorder in lithium transition-metal oxides as insertion electrodes for lithium-ion batteries. <i>Pure and Applied Chemistry</i> , 2002, 74, 1885-1894.	0.9	36

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73	EPR studies of $\text{Li}_{1-x}(\text{Ni}_y\text{Co}_{1-y})_{1+x}\text{O}_2$ solid solutions. <i>Solid State Communications</i> , 1997, 102, 457-462.	0.9	34
74	Electrochemical and ^{119}Sn Mössbauer studies of the reaction of Co_2SnO_4 with lithium. <i>Electrochemistry Communications</i> , 2006, 8, 731-736.	2.3	34
75	On the Effect of Silicon Substitution in $\text{Na}_{3-x}\text{V}_2(\text{PO}_4)_3$ on the Electrochemical Behavior as Cathode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 367-374.	1.7	33
76	Electrochemical, ^6Li MAS NMR, and X-ray and Neutron Diffraction Study of $\text{LiCo}_x\text{Fe}_y\text{Mn}_{2-(x+y)}\text{O}_4$ Spinel Oxides for High-Voltage Cathode Materials. <i>Chemistry of Materials</i> , 2003, 15, 1210-1216.	3.2	32
77	Mn-Containing N-Doped Monolithic Carbon Aerogels with Enhanced Macroporosity as Electrodes for Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2487-2494.	3.2	32
78	On the benefits of Cr substitution on $\text{Na}_4\text{MnV}(\text{PO}_4)_3$ to improve the high voltage performance as cathode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2021, 495, 229811.	4.0	32
79	Tin oxalate as a precursor of tin dioxide and electrode materials for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2001, 6, 55-62.	1.2	31
80	EPR studies of Li deintercalation from LiCoMnO_4 spinel-type electrode active material. <i>Journal of Power Sources</i> , 2006, 159, 1389-1394.	4.0	31
81	Tin-Based composite Materials Fabricated by Anodic Oxidation for the Negative Electrode of Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1094.	1.3	31
82	Mesoporous carbon black-aerogel composites with optimized properties for the electro-assisted removal of sodium chloride from brackish water. <i>Journal of Electroanalytical Chemistry</i> , 2015, 741, 42-50.	1.9	31
83	On the use of carbon black loaded nitrogen-doped carbon aerogel for the electrosorption of sodium chloride from saline water. <i>Electrochimica Acta</i> , 2015, 170, 154-163.	2.6	30
84	Tin-carbon composites as anodic material in Li-ion batteries obtained by coprolysis of petroleum vacuum residue and SnO_2 . <i>Carbon</i> , 2007, 45, 1396-1409.	5.4	29
85	The influence of iron substitution on the electrochemical properties of $\text{Li}_{1+x}\text{Ti}_2-x\text{Fe}_x(\text{PO}_4)_3/\text{C}$ composites as electrodes for lithium batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 21602.	6.7	29
86	Exploring the high-voltage $\text{Mg}^{2+}/\text{Na}^{+}$ co-intercalation reaction of $\text{Na}_3\text{VCr}(\text{PO}_4)_3$ in Mg-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18081-18091.	5.2	29
87	Highly dispersed oleic-induced nanometric $\text{C}@_{\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3}$ composites for efficient Na-ion batteries. <i>Electrochimica Acta</i> , 2020, 332, 135502.	2.6	29
88	Rotor blade grinding and re-annealing of LiCoO_2 : SEM, XPS, EIS and electrochemical study. <i>Journal of Electroanalytical Chemistry</i> , 2005, 584, 147-156.	1.9	28
89	High Performance Full Sodium-Ion Cell Based on a Nanostructured Transition Metal Oxide as Negative Electrode. <i>Chemistry - A European Journal</i> , 2015, 21, 14879-14885.	1.7	28
90	New tin-containing spinel sulfide electrodes for ambient temperature rocking chair cells. <i>Journal of Power Sources</i> , 1996, 62, 101-105.	4.0	27

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91	Exploring an Aluminum Ion Battery Based on Molybdate as Working Electrode and Ionic Liquid as Electrolyte. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2994-A2999.	1.3	27
92	NiMn ₂ FeO ₄ prepared by a reverse micelles method as conversion anode materials for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2010, 124, 102-108.	2.0	26
93	Improved electro-assisted removal of phosphates and nitrates using mesoporous carbon aerogels with controlled porosity. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 963-976.	1.5	26
94	Induced Rate Performance Enhancement in Off-Stoichiometric Na ₃ V ₂ (PO ₄) ₃ with Potential Applicability as the Cathode for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 7345-7352.	1.7	26
95	Increasing Energy Density with Capacity Preservation by Aluminum Substitution in Sodium Vanadium Phosphate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21651-21660.	4.0	26
96	¹³ C, ¹ H, ⁶ Li Magic-Angle Spinning Nuclear Magnetic Resonance, Electron Paramagnetic Resonance, and Fourier Transform Infrared Study of Intercalation Electrodes Based in Ultrasoft Carbons Obtained below 3100 K. <i>Chemistry of Materials</i> , 1999, 11, 52-60.	3.2	25
97	X-ray Absorption Spectroscopic Study of LiCoO ₂ as the Negative Electrode of Lithium-Ion Batteries. <i>ChemPhysChem</i> , 2006, 7, 1086-1091.	1.0	25
98	Structural aspects of lithium intercalated PbVS ₃ , PbTiS ₃ , PbTi ₂ S ₅ and SnNbS ₃ misfit layer compounds. <i>Materials Research Bulletin</i> , 1991, 26, 1211-1218.	2.7	24
99	Optimization of the Electrochemical Behavior of Vapor Grown Carbon Nanofibers for Lithium-Ion Batteries by Impregnation, and Thermal and Hydrothermal Treatments. <i>Journal of the Electrochemical Society</i> , 2005, 152, A1797.	1.3	24
100	Elucidation of Capacity Fading on CoFe ₂ O ₄ Conversion Electrodes for Lithium Batteries Based on ⁵⁷ Fe Mössbauer Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2009, 156, A589.	1.3	24
101	Nanobelts of Beta-Sodium Vanadate as Electrode for Magnesium and Dual Magnesium-Sodium Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2781-A2790.	1.3	24
102	Electrosorption of environmental concerning anions on a highly porous carbon aerogel. <i>Journal of Electroanalytical Chemistry</i> , 2013, 708, 80-86.	1.9	23
103	Structure and Dynamics of Lithium-Intercalated Sn _{2.6} Li and ¹¹⁹ Sn Solid State NMR. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6715-6723.	1.2	22
104	Co/Mn distribution and electrochemical intercalation of Li into Li[Mn _{2-y} Co _y]O ₄ spinels, 0 ≤ y ≤ 1. <i>Solid State Ionics</i> , 2001, 140, 19-33.	1.3	22
105	Influence of oxidative stabilization on the electrochemical behaviour of coal tar pitch derived carbons in lithium batteries. <i>Electrochimica Acta</i> , 2005, 50, 1225-1232.	2.6	22
106	A facile carbothermal preparation of Sn-Co-C composite electrodes for Li-ion batteries using low-cost carbons. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 953-962.	1.2	22
107	On the Mechanism of Magnesium Storage in Micro- and Nano-Particulate Tin Battery Electrodes. <i>Nanomaterials</i> , 2018, 8, 501.	1.9	22
108	Electrochemical lithium intercalation into misfit layer sulfides. <i>Chemistry of Materials</i> , 1992, 4, 1021-1026.	3.2	21

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109	Lithium intercalation and copper extraction in spinel sulfides of general formula $\text{Cu}_2\text{MSn}_3\text{S}_8$ (M = Mn,) <i>Tj ETQq1 1</i>	0.784314	21
110	New $\text{Ni}_x\text{Mg}_{6-x}\text{MnO}_8$ Mixed Oxides as Active Materials for the Negative Electrode of Lithium-Ion Cells. <i>Journal of Solid State Chemistry</i> , 2002, 166, 330-335.	1.4	21
111	Nanodispersed iron, tin and antimony in vapour grown carbon fibres for lithium batteries: an EPR and electrochemical study. <i>Carbon</i> , 2004, 42, 2153-2161.	5.4	21
112	Sodium storage behavior of $\text{Na}_{0.66}\text{Ni}_{0.33}\text{E}-x\text{Zn}_x\text{Mn}_{0.67}\text{O}_2$ ($x = 0, 0.07$ and 0.14) positive materials in diglyme-based electrolytes. <i>Journal of Power Sources</i> , 2018, 400, 317-324.	4.0	21
113	Reversible Multi-Electron Storage Enabled by $\text{Na}_5\text{V}(\text{PO}_4)_2\text{F}_2$ for Rechargeable Magnesium Batteries. <i>Energy Storage Materials</i> , 2021, 38, 462-472.	9.5	21
114	121Sb Mössbauer and X-ray Photoelectron Spectroscopy Studies of the Electronic Structure of Some Antimony Misfit Layer Compounds. <i>Chemistry of Materials</i> , 1997, 9, 1393-1398.	3.2	20
115	VSe_2 electrodes in lithium and lithium-ion cells. <i>Journal of Applied Electrochemistry</i> , 1997, 27, 1207-1211.	1.5	20
116	Iron-carbon composites as electrode materials in lithium batteries. <i>Carbon</i> , 2006, 44, 1762-1772.	5.4	20
117	Cobalt Oxide Nanoparticles Prepared from Reverse Micelles as High-Capacity Electrode Materials for Li-Ion Cells. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, A198.	2.2	20
118	Sn-Co-C composites obtained from resorcinol-formaldehyde gel as anodes in lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 139-148.	1.2	20
119	Iron Oxide-Iron Sulfide Hybrid Nanosheets as High-Performance Conversion-Type Anodes for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 10765-10775.	2.5	20
120	Modification of Petroleum Coke for Lithium-Ion Batteries by Heat-Treatment with Iron Oxide. <i>Journal of the Electrochemical Society</i> , 2004, 151, A2113.	1.3	19
121	Synthesis of Porous and Mechanically Compliant Carbon Aerogels Using Conductive and Structural Additives. <i>Gels</i> , 2016, 2, 4.	2.1	19
122	Novel layered chalcogenides as electrode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 1997, 68, 704-707.	4.0	18
123	In Situ X-ray Diffraction Study of Electrochemical Insertion in $\text{Mg}_{0.5}\text{Ti}_2(\text{PO}_4)_3$: An Electrode Material for Lithium or Sodium Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1716-A1721.	1.3	18
124	Tunable $\text{Ti}^{4+}/\text{Ti}^{3+}$ Redox Potential in the Presence of Iron and Calcium in NASICON-Type Related Phosphates as Electrodes for Lithium Batteries. <i>Chemistry of Materials</i> , 2013, 25, 4025-4035.	3.2	18
125	A ^{57}Fe Mössbauer spectroscopy study of cobalt ferrite conversion electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 6978-6981.	4.0	17
126	SPES, ^6Li MAS NMR, and Ni^{3+} EPR evidence for the formation of Co^{2+} -containing spinel phases in LiCoO_2 cycled electrode materials. <i>Journal of Electroanalytical Chemistry</i> , 1998, 454, 173-181.	1.9	16

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127	Improving the electrochemical performance of titanium phosphate-based electrodes in sodium batteries by lithium substitution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13963.	5.2	16
128	On the influence of particle morphology to provide high performing chemically desodiated C@NaV ₂ (PO ₄) ₃ as cathode for rechargeable magnesium batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018, 827, 128-136.	1.9	16
129	Structural Characterization and Electrochemical Reactions with Lithium of Cu ₂ CoTi _x Sn _{3-x} S ₈ Solid Solutions. <i>Chemistry of Materials</i> , 1999, 11, 2687-2693.	3.2	15
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