Pedro Lavela

List of Publications by Year
in descending order

196	8,573	50	84
papers	citations	h-index	g-index
		38742	54911

207	207	207	8291
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NiCo2O4Spinel:Â First Report on a Transition Metal Oxide for the Negative Electrode of Sodium-Ion Batteries. Chemistry of Materials, 2002, 14, 2847-2848.	6.7	458
2	Carbon black: a promising electrode material for sodium-ion batteries. Electrochemistry Communications, 2001, 3, 639-642.	4.7	355
3	Alternative Li-Ion Battery Electrode Based on Self-Organized Titania Nanotubes. Chemistry of Materials, 2009, 21, 63-67.	6.7	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	CoFe2O4 and NiFe2O4 synthesized by solâ€“gel procedures for their use as anode materials for Li ion batteries. Journal of Power Sources, 2007, 172, 379-387.	7.8	306
6	Solâ€“gel preparation of cobalt manganese mixed oxides for their use as electrode materials in lithium cells. Electrochimica Acta, 2007, 52, 7986-7995.	5.2	146
7	Effect of Iron Substitution in the Electrochemical Performance of Na₃V₂(PO₄)₃as Cathode for Na-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A3077-A3083.	2.9	141
8	Structure and Electrochemical Properties of Boron-Doped LiCoO2. Journal of Solid State Chemistry, 1997, 134, 265-273.	2.9	140
9	TiO2 nanotubes manufactured by anodization of Ti thin films for on-chip Li-ion 2D microbatteries. Electrochimica Acta, 2009, 54, 4262-4268.	5.2	137
10	Benefits of Chromium Substitution in Na₃V₂(PO₄)₃ as a Potential Candidate for Sodiumâ€Ion Batteries. ChemElectroChem, 2015, 2, 995-1002.	3.4	137
11	Characterisation of mesocarbon microbeads (MCMB) as active electrode material in lithium and sodium cells. Carbon, 2000, 38, 1031-1041.	10.3	136
12	Optimizing preparation conditions for 5 V electrode performance, and structural changes in Li1â^'xNi0.5Mn1.5O4 spinel. Electrochimica Acta, 2002, 47, 1829-1835.	5.2	134
13	Electrochemical reaction of lithium with the CoSb3 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.	7.8	126
15	Structural and Electrochemical Study of New LiNi0.5TixMn1.5-xO4Spinel Oxides for 5-V Cathode Materials. Chemistry of Materials, 2003, 15, 2376-2382.	6.7	121
16	X-ray diffraction and electrochemical impedance spectroscopy study of zinc coated LiNi0.5Mn1.5O4 electrodes. Journal of Electroanalytical Chemistry, 2004, 566, 187-192.	3.8	121
17	N-doped monolithic carbon aerogel electrodes with optimized features for the electrosorption of ions. Carbon, 2015, 83, 262-274.	10.3	118
18	Effect of aluminum doping on carbon loaded Na3V2(PO4)3 as cathode material for sodium-ion batteries. Electrochimica Acta, 2015, 180, 824-830.	5.2	115

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19	Changes in oxidation state and magnetic order of iron atoms during the electrochemical reaction of lithium with NiFe2O4. Electrochemistry Communications, 2003, 5, 16-21.	4.7	109
20	Changes in the Local Structure of LiMgyNi0.5-yMn1.5O4Electrode Materials during Lithium Extraction. Chemistry of Materials, 2004, 16, 1573-1579.	6.7	107
21	Nanoarchitectured TiO₂/SnO: A Future Negative Electrode for High Power Density Li-Ion Microbatteries?. Chemistry of Materials, 2010, 22, 1926-1932.	6.7	107
22	Advancing towards a veritable calcium-ion battery: CaCo2O4 positive electrode material. Electrochemistry Communications, 2016, 67, 59-64.	4.7	107
23	Formation and Oxidation of Nanosized Metal Particles by Electrochemical Reaction of Li and Na with NiCo2O4:â€‰ X-ray Absorption Spectroscopic Study. Journal of Physical Chemistry C, 2007, 111, 4636-4642.	3.1	103
24	Na₃V₂(PO₄)₃/C Nanorods with Improved Electrodeâ€“Electrolyte Interface As Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23151-23159.	8.0	92
25	Reversible intercalation of aluminium into vanadium pentoxide xerogel for aqueous rechargeable batteries. RSC Advances, 2016, 6, 62157-62164.	3.6	91
26	A novel architectured negative electrode based on titania nanotube and iron oxide nanowire composites for Li-ion microbatteries. Journal of Materials Chemistry, 2010, 20, 4041.	6.7	88
27	Photoelectron Spectroscopic Study of the Reaction of Li and Na with NiCo2O4. Chemistry of Materials, 2005, 17, 5202-5208.	6.7	85
28	Electrochemical evaluation of CuFe2O4 samples obtained by solâ€“gel methods used as anodes in lithium batteries. Journal of Solid State Electrochemistry, 2008, 12, 729-737.	2.5	85
29	On the electrochemical performance of anthracite-based graphite materials as anodes in lithium-ion batteries. Fuel, 2010, 89, 986-991.	6.4	84
30	The Origin of Capacity Fading in NiFe₂O₄ Conversion Electrodes for Lithium Ion Batteries Unfolded by ⁵⁷Fe MÃ¶ssbauer Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 12828-12832.	3.1	81
31	A novel method for metal oxide deposition on carbon aerogels with potential application in capacitive deionization of saline water. Electrochimica Acta, 2014, 135, 208-216.	5.2	81
32	Recent advances in the study of layered lithium transition metal oxides and their application as intercalation electrodes. Journal of Solid State Electrochemistry, 1999, 3, 121-134.	2.5	74
33	EPR, NMR, and Electrochemical Studies of Surface-Modified Carbon Microbeads. Chemistry of Materials, 2006, 18, 2293-2301.	6.7	71
34	Electrochemical and chemical insertion/deinsertion of magnesium in spinel-type MgMn₂O₄ and lambda-MnO₂ for both aqueous and non-aqueous magnesium-ion batteries. CrystEngComm, 2015, 17, 8728-8735.	2.6	71
35	Electrochemical reactions of polycrystalline CrSb2 in lithium batteries. Journal of Electroanalytical Chemistry, 2001, 501, 205-209.	3.8	64
36	Improving the cyclability of sodium-ion cathodes by selection of electrolyte solvent. Journal of Power Sources, 2012, 197, 314-318.	7.8	64

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37	Applicability of Molybdite as an Electrode Material in Calcium Batteries: A Structural Study of Layer-type Ca_{<i>x</i>}MoO₃. Chemistry of Materials, 2018, 30, 5853-5861.	6.7	63
38	X-ray Diffraction, EPR, and 6Li and 27Al MAS NMR Study of LiAlO2â^'LiCoO2 Solid Solutions. Inorganic Chemistry, 1998, 37, 264-269.	4.0	62
39	Improved Energy Storage Solution Based on Hybrid Oxide Materials. ACS Sustainable Chemistry and Engineering, 2013, 1, 46-56.	6.7	61
40	Lithium insertion mechanism inSnS2. Physical Review B, 2000, 61, 3110-3116.	3.2	60
41	High-Performance Transition Metal Mixed Oxides in Conversion Electrodes:â€‰ A Combined Spectroscopic and Electrochemical Study. Journal of Physical Chemistry C, 2007, 111, 14238-14246.	3.1	58
42	Electrochemical, textural and microstructural effects of mechanical grinding on graphitized petroleum coke for lithium and sodium batteries. Carbon, 2003, 41, 3003-3013.	10.3	57
43	Electrochemical response of carbon aerogel electrodes in saline water. Journal of Electroanalytical Chemistry, 2012, 671, 92-98.	3.8	57
44	Cationic distribution and electrochemical performance of LiCo1/3Ni1/3Mn1/3O2 electrodes for lithium-ion batteries. Solid State Ionics, 2008, 179, 2198-2208.	2.7	55
45	High reversible sodium insertion into iron substituted Na1+xTi2â^'xFex(PO4)3. Journal of Power Sources, 2014, 252, 208-213.	7.8	54
46	Changes in Structure and Cathode Performance with Composition and Preparation Temperature of Lithium Cobalt Nickel Oxide. Journal of the Electrochemical Society, 1998, 145, 730-736.	2.9	53
47	Synergistic Effects of Double Substitution in LiNi[sub 0.5â^'y]Fe[sub y]Mn[sub 1.5]O[sub 4] Spinel as 5 V Cathode Materials. Journal of the Electrochemical Society, 2005, 152, A13.	2.9	53
48	EPR study on petroleum cokes annealed at different temperatures and used in lithium and sodium batteries. Carbon, 2002, 40, 2301-2306.	10.3	52
49	Lithiumâ^'Nickel Citrate Precursors for the Preparation of LiNiO2 Insertion Electrodes. Chemistry of Materials, 1997, 9, 2145-2155.	6.7	51
50	NASICON-type Na3V2(PO4)3 as a new positive electrode material forÂrechargeable aluminium battery. Electrochimica Acta, 2018, 260, 798-804.	5.2	51
51	X-ray Diffraction,7Li MAS NMR Spectroscopy, and119Sn MÃ¶ssbauer Spectroscopy Study of SnSb-Based Electrode Materials. Chemistry of Materials, 2002, 14, 2962-2968.	6.7	49
52	On the effect of carbon content for achieving a high performing Na3V2(PO4)3/C nanocomposite as cathode for sodium-ion batteries. Journal of Electroanalytical Chemistry, 2017, 784, 47-54.	3.8	49
53	X-ray diffraction, 57Fe MÃ¶ssbauer and step potential electrochemical spectroscopy study of LiFeyCo1â^'yO2 compounds. Journal of Power Sources, 1999, 81-82, 547-553.	7.8	48
54	Lithium insertion mechanism in Sb-based electrode materials from 121Sb MÃ¶ssbauer spectrometry. Journal of Power Sources, 2003, 119-121, 585-590.	7.8	48

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55	New LiNi[sub y]Co[sub 1âˆ’2y]Mn[sub 1+y]O[sub 4] Spinel Oxide Solid Solutions as 5 V Electrode Material for Li-Ion Batteries. Journal of the Electrochemical Society, 2004, 151, A53.	2.9	48
56	⁵⁷Fe MÃ¶ssbauer Spectroscopy and Electron Microscopy Study of Metal Extraction from CuFe₂O₄ Electrodes in Lithium Cells. ChemPhysChem, 2007, 8, 1999-2007.	2.1	47
57	Na3V2(PO4)3 as electrode material for rechargeable magnesium batteries: a case of sodium-magnesium hybrid battery. Electrochimica Acta, 2017, 246, 908-913.	5.2	47
58	On the role of faradaic and capacitive contributions in the electrochemical performance of CoFe2O4 as conversion anode for Li-ion cells. Solid State Ionics, 2010, 181, 616-622.	2.7	46
59	Improved lithium-ion transport in NASICON-type lithium titanium phosphate by calcium and iron doping. Solid State Ionics, 2014, 262, 573-577.	2.7	46
60	On the Reliability of Sodium Co-Intercalation in Expanded Graphite Prepared by Different Methods as Anodes for Sodium-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A3804-A3813.	2.9	44
61	Aluminium coordination in LiNi1âˆ’yAlyO2 solid solutions. Solid State Ionics, 2000, 128, 1-10.	2.7	42
62	⁵⁷Fe MÃ¶ssbauer Spectroscopy Study of the Electrochemical Reaction with Lithium of MFe₂O₄ (M = Co and Cu) Electrodes. Journal of Physical Chemistry C, 2009, 113, 20081-20087.	3.1	42
63	Highâ€Performance Na3V2(PO4)3/C Cathode for Sodiumâ€Ion Batteries Prepared by a Ballâ€Millingâ€Assisted Method. European Journal of Inorganic Chemistry, 2016, 2016, 3212-3218.	2.0	42
64	Cobalt(III) Effect on27Al NMR Chemical Shifts in LiAlxCo1-xO2. Journal of Physical Chemistry B, 2001, 105, 8081-8087.	2.6	40
65	Transition metal oxide thin films with improved reversibility as negative electrodes for sodium-ion batteries. Electrochemistry Communications, 2013, 27, 152-155.	4.7	40
66	Treasure Na-ion anode from trash coke by adept electrolyte selection. Journal of Power Sources, 2017, 347, 127-135.	7.8	40
67	Effect of chromium doping on Na3V2(PO4)2F3@C as promising positive electrode for sodium-ion batteries. Journal of Electroanalytical Chemistry, 2020, 856, 113694.	3.8	39
68	Nanocomposite Electrode for Li-Ion Microbatteries Based on SnO on Nanotubular Titania Matrix. Electrochemical and Solid-State Letters, 2009, 12, A186.	2.2	37
69	Improved Surface Stability of C+M_{<i>x</i>}O_{<i>y</i>}@Na₃V₂(PO₄)₃ Prepared by Ultrasonic Method as Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 1471-1478.	8.0	37
70	Nanometric P2-Na2/3Fe1/3Mn2/3O2 with controlled morphology as cathode for sodium-ion batteries. Journal of Alloys and Compounds, 2017, 724, 465-473.	5.5	37
71	Superior electrochemical performance of TiO2 sodium-ion battery anodes in diglyme-based electrolyte solution. Journal of Power Sources, 2019, 432, 82-91.	7.8	37
72	Cation order/disorder in lithium transition-metal oxides as insertion electrodes for lithium-ion batteries. Pure and Applied Chemistry, 2002, 74, 1885-1894.	1.9	36

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73	EPR studies of Li1âˆ’x(NiyCo1âˆ’y)1+xO2 solid solutions. Solid State Communications, 1997, 102, 457-462.	1.9	34
74	Electrochemical and 119Sn MÃ¶ssbauer studies of the reaction of Co2SnO4 with lithium. Electrochemistry Communications, 2006, 8, 731-736.	4.7	34
75	On the Effect of Silicon Substitution in Na₃V₂(PO₄)₃ on the Electrochemical Behavior as Cathode for Sodiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 367-374.	3.4	33
76	Electrochemical,6Li MAS NMR, and X-ray and Neutron Diffraction Study of LiCoxFeyMn2-(x+y)O4Spinel Oxides for High-Voltage Cathode Materials. Chemistry of Materials, 2003, 15, 1210-1216.	6.7	32
77	Mn-Containing N-Doped Monolithic Carbon Aerogels with Enhanced Macroporosity as Electrodes for Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2016, 4, 2487-2494.	6.7	32
78	On the benefits of Cr substitution on Na4MnV(PO4)3 to improve the high voltage performance as cathode for sodium-ion batteries. Journal of Power Sources, 2021, 495, 229811.	7.8	32
79	Tin oxalate as a precursor of tin dioxide and electrode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2001, 6, 55-62.	2.5	31
80	EPR studies of Li deintercalation from LiCoMnO4 spinel-type electrode active material. Journal of Power Sources, 2006, 159, 1389-1394.	7.8	31
81	Tin-Based composite Materials Fabricated by Anodic Oxidation for the Negative Electrode of Li-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A1094.	2.9	31
82	Mesoporous carbon black-aerogel composites with optimized properties for the electro-assisted removal of sodium chloride from brackish water. Journal of Electroanalytical Chemistry, 2015, 741, 42-50.	3.8	31
83	On the use of carbon black loaded nitrogen-doped carbon aerogel for the electrosorption of sodium chloride from saline water. Electrochimica Acta, 2015, 170, 154-163.	5.2	30
84	Tinâ€“carbon composites as anodic material in Li-ion batteries obtained by copyrolysis of petroleum vacuum residue and SnO2. Carbon, 2007, 45, 1396-1409.	10.3	29
85	The influence of iron substitution on the electrochemical properties of Li1+xTi2âˆ’xFex(PO4)3/C composites as electrodes for lithium batteries. Journal of Materials Chemistry, 2012, 22, 21602.	6.7	29
86	Exploring the high-voltage Mg²⁺/Na⁺ co-intercalation reaction of Na₃VCr(PO₄)₃ in Mg-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18081-18091.	10.3	29
87	Highly dispersed oleic-induced nanometric C@Na3V2(PO4)2F3 composites for efficient Na-ion batteries. Electrochimica Acta, 2020, 332, 135502.	5.2	29
88	Rotor blade grinding and re-annealing of LiCoO2: SEM, XPS, EIS and electrochemical study. Journal of Electroanalytical Chemistry, 2005, 584, 147-156.	3.8	28
89	High Performance Full Sodiumâ€Ion Cell Based on a Nanostructured Transition Metal Oxide as Negative Electrode. Chemistry - A European Journal, 2015, 21, 14879-14885.	3.3	28
90	New tin-containing spinel sulfide electrodes for ambient temperature rocking chair cells. Journal of Power Sources, 1996, 62, 101-105.	7.8	27

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91	Exploring an Aluminum Ion Battery Based on Molybdite as Working Electrode and Ionic Liquid as Electrolyte. Journal of the Electrochemical Society, 2018, 165, A2994-A2999.	2.9	27
92	NiMn2âˆ’Fe O4 prepared by a reverse micelles method as conversion anode materials for Li-ion batteries. Materials Chemistry and Physics, 2010, 124, 102-108.	4.0	26
93	Improved electro-assisted removal of phosphates and nitrates using mesoporous carbon aerogels with controlled porosity. Journal of Applied Electrochemistry, 2014, 44, 963-976.	2.9	26
94	Induced Rate Performance Enhancement in Offâ€Stoichiometric Na_{3+3<i>x</i>}V_{2âˆ’<i>x</i>}(PO₄)₃ with Potential Applicability as the Cathode for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 7345-7352.	3.3	26
95	Increasing Energy Density with Capacity Preservation by Aluminum Substitution in Sodium Vanadium Phosphate. ACS Applied Materials & Interfaces, 2020, 12, 21651-21660.	8.0	26
96	13C, 1H, 6Li 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. Chemistry of Materials, 1999, 11, 52-60.	6.7	25
97	X-ray Absorption Spectroscopic Study of LiCoO2 as the Negative Electrode of Lithium-Ion Batteries. ChemPhysChem, 2006, 7, 1086-1091.	2.1	25
98	Structural aspects of lithium intercalated PbVS3, PbTiS3, PbTi2S5 and SnNbS3 misfit layer compounds. Materials Research Bulletin, 1991, 26, 1211-1218.	5.2	24
99	Optimization of the Electrochemical Behavior of Vapor Grown Carbon Nanofibers for Lithium-Ion Batteries by Impregnation, and Thermal and Hydrothermal Treatments. Journal of the Electrochemical Society, 2005, 152, A1797.	2.9	24
100	Elucidation of Capacity Fading on CoFe[sub 2]O[sub 4] Conversion Electrodes for Lithium Batteries Based on [sup 57]Fe MoÌˆssbauer Spectroscopy. Journal of the Electrochemical Society, 2009, 156, A589.	2.9	24
101	Nanobelts of Beta-Sodium Vanadate as Electrode for Magnesium and Dual Magnesium-Sodium Batteries. Journal of the Electrochemical Society, 2016, 163, A2781-A2790.	2.9	24
102	Electrosorption of environmental concerning anions on a highly porous carbon aerogel. Journal of Electroanalytical Chemistry, 2013, 708, 80-86.	3.8	23
103	Structure and Dynamics of Lithium-Intercalated SnS2.6,7Li and119Sn Solid State NMR. Journal of Physical Chemistry B, 1997, 101, 6715-6723.	2.6	22
104	Co/Mn distribution and electrochemical intercalation of Li into Li[Mn2âˆ’yCoy]O4 spinels, 0<yâ‰1. Solid State Ionics, 2001, 140, 19-33.	2.7	22
105	Influence of oxidative stabilization on the electrochemical behaviour of coal tar pitch derived carbons in lithium batteries. Electrochimica Acta, 2005, 50, 1225-1232.	5.2	22
106	A facile carbothermal preparation of Snâ€“Coâ€“C composite electrodes for Li-ion batteries using low-cost carbons. Journal of Solid State Electrochemistry, 2012, 16, 953-962.	2.5	22
107	On the Mechanism of Magnesium Storage in Micro- and Nano-Particulate Tin Battery Electrodes. Nanomaterials, 2018, 8, 501.	4.1	22
108	Electrochemical lithium intercalation into misfit layer sulfides. Chemistry of Materials, 1992, 4, 1021-1026.	6.7	21

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109	Lithium intercalation and copper extraction in spinel sulfides of general formula Cu2MSn3S8(M = Mn,) Tj ETQq1 1 0.784314 rgBT /Ov	6.7	21
110	New NixMg6â^'xMnO8 Mixed Oxides as Active Materials for the Negative Electrode of Lithium-Ion Cells. Journal of Solid State Chemistry, 2002, 166, 330-335.	2.9	21
111	Nanodispersed iron, tin and antimony in vapour grown carbon fibres for lithium batteries: an EPR and electrochemical study. Carbon, 2004, 42, 2153-2161.	10.3	21
112	Sodium storage behavior of Na0.66Ni0.33Ë—xZnxMn0.67O2 (x = 0, 0.07 and 0.14) positive materials in diglyme-based electrolytes. Journal of Power Sources, 2018, 400, 317-324.	7.8	21
113	Reversible Multi-Electron Storage Enabled by Na5V(PO4)2F2 for Rechargeable Magnesium Batteries. Energy Storage Materials, 2021, 38, 462-472.	18.0	21
114	121Sb MÃ¶ssbauer and X-ray Photoelectron Spectroscopy Studies of the Electronic Structure of Some Antimony Misfit Layer Compounds. Chemistry of Materials, 1997, 9, 1393-1398.	6.7	20
115	VSe2â^'ySy electrodes in lithium and lithium-ion cells. Journal of Applied Electrochemistry, 1997, 27, 1207-1211.	2.9	20
116	Ironâ€"carbon composites as electrode materials in lithium batteries. Carbon, 2006, 44, 1762-1772.	10.3	20
117	Cobalt Oxide Nanoparticles Prepared from Reverse Micelles as High-Capacity Electrode Materials for Li-Ion Cells. Electrochemical and Solid-State Letters, 2008, 11, A198.	2.2	20
118	Snâ€"Coâ€"C composites obtained from resorcinol-formaldehyde gel as anodes in lithium-ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 139-148.	2.5	20
119	Iron Oxideâ€"Iron Sulfide Hybrid Nanosheets as High-Performance Conversion-Type Anodes for Sodium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 10765-10775.	5.1	20
120	Modification of Petroleum Coke for Lithium-Ion Batteries by Heat-Treatment with Iron Oxide. Journal of the Electrochemical Society, 2004, 151, A2113.	2.9	19
121	Synthesis of Porous and Mechanically Compliant Carbon Aerogels Using Conductive and Structural Additives. Gels, 2016, 2, 4.	4.5	19
122	Novel layered chalcogenides as electrode materials for lithium-ion batteries. Journal of Power Sources, 1997, 68, 704-707.	7.8	18
123	In Situ X-ray Diffraction Study of Electrochemical Insertion in Mg_{0.5}Ti₂(PO₄)₃: An Electrode Material for Lithium or Sodium Batteries. Journal of the Electrochemical Society, 2012, 159, A1716-A1721.	2.9	18
124	Tunable Ti⁴⁺/Ti³⁺ Redox Potential in the Presence of Iron and Calcium in NASICON-Type Related Phosphates as Electrodes for Lithium Batteries. Chemistry of Materials, 2013, 25, 4025-4035.	6.7	18
125	A 57Fe MÃ¶ssbauer spectroscopy study of cobalt ferrite conversion electrodes for Li-ion batteries. Journal of Power Sources, 2011, 196, 6978-6981.	7.8	17
126	SPES, 6Li MAS NMR, and Ni3+ EPR evidence for the formation of Co2+-containing spinel phases in LiCoO2 cycled electrode materials. Journal of Electroanalytical Chemistry, 1998, 454, 173-181.	3.8	16

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127	Improving the electrochemical performance of titanium phosphate-based electrodes in sodium batteries by lithium substitution. Journal of Materials Chemistry A, 2013, 1, 13963.	10.3	16
128	On the influence of particle morphology to provide high performing chemically desodiated C@NaV2(PO4)3 as cathode for rechargeable magnesium batteries. Journal of Electroanalytical Chemistry, 2018, 827, 128-136.	3.8	16
129	Structural Characterization and Electrochemical Reactions with Lithium of Cu2CoTixSn3-xS8Solid Solutions. Chemistry of Materials, 1999, 11, 2687-2693.	6.7	15
130	Comparative analysis of the changes in local Ni/Mn environment in lithiumâ€“nickelâ€“manganese oxides with layered and spinel structure during electrochemical extraction and reinsertion of lithium. Journal of Power Sources, 2007, 174, 519-523.	7.8	15
131	Electrochemical performance of the lithium insertion in Mn0.5â^'xCoxTi2(PO4)3/C composites (x=0,) Tj ETQq1 1 0.784314 rgBT /Overlo	5.2	15
132	Insight into the Electrochemical Sodium Insertion of Vanadium Superstoichiometric NASICON Phosphate. Inorganic Chemistry, 2017, 56, 11845-11853.	4.0	15
133	Effect of the Mn/V ratio to optimize the kinetic properties of Na3+xMnxV1-xCr(PO4)3 positive electrode for sodium-ion batteries. Electrochimica Acta, 2021, 375, 137982.	5.2	15
134	Lithium Insertion into Modified Conducting Domains of Graphitized Carbon Nanotubes. Journal of the Electrochemical Society, 2007, 154, A964.	2.9	14
135	Effect of the resorcinol/catalyst ratio in the capacitive performance of carbon xerogels with potential use in sodium chloride removal from saline water. Journal of Solid State Electrochemistry, 2014, 18, 2847-2856.	2.5	14
136	On the correlation between the porous structure and the electrochemical response of powdered and monolithic carbon aerogels as electrodes for capacitive deionization. Journal of Solid State Chemistry, 2016, 242, 21-28.	2.9	14
137	Microstructure and intercalation properties of petrol cokes obtained at 1400Â°C. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 39, 216-223.	3.5	13
138	Chromium substitution in ion exchanged Li3Fe2(PO4)3 and the effects on the electrochemical behavior as cathodes for lithium batteries. Electrochimica Acta, 2012, 62, 124-131.	5.2	13
139	On the use of guanidine hydrochloride soft template in the synthesis of Na2/3Ni1/3Mn2/3O2 cathodes for sodium-ion batteries. Journal of Alloys and Compounds, 2019, 789, 1035-1045.	5.5	13
140	Hydrated lithium intercalation compounds of misfit layer sulfides. Chemistry of Materials, 1992, 4, 2-4.	6.7	12
141	Electrochemical Sodium Insertion into MnCo Oxide. Electrochemical and Solid-State Letters, 1999, 2, 545.	2.2	12
142	Composite electrode materials for lithium-ion batteries obtained by metal oxide addition to petroleum vacuum residua. Carbon, 2005, 43, 923-936.	10.3	12
143	Microwave-assisted hydrothermal synthesis of magnetite nanoparticles with potential use as anode in lithium ion batteries. Materials Research, 2014, 17, 1065-1070.	1.3	12
144	Self-assembled Li4Ti5O12/TiO2/Li3PO4 for integrated Liâ€“ion microbatteries. Electrochemistry Communications, 2015, 56, 61-64.	4.7	12

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145	Unfolding the role of iron in Li-ion conversion electrode materials by 57Fe MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2012, 207, 53-59.	0.5	11
146	Electrochemical lithium and sodium intercalation into the tantalum-rich layered chalcogenides Ta2Se and Ta2Te3. Journal of Alloys and Compounds, 1999, 282, 93-100.	5.5	10
147	Effects of Partial Acid Delithiation on the Electrochemical Lithium Insertion Properties of Nickel-Stabilized LiMn2O4 Spinel Oxides. Journal of Solid State Chemistry, 2000, 150, 196-203.	2.9	10
148	119Sn MÃ¶ssbauer spectroscopy: a powerful tool to unfold the reaction mechanism in advanced electrodes for lithium-ion batteries. Hyperfine Interactions, 2008, 187, 13-17.	0.5	10
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