

Pedro Lavela

List of Publications by Year in descending order

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196
papers

8,573
citations

38742
50
h-index

54911
84
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207
all docs

207
docs citations

207
times ranked

8291
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring hybrid Mg ²⁺ /H ⁺ reactions of C@MgMnSiO ₄ with boosted voltage in magnesium-ion batteries. <i>Electrochimica Acta</i> , 2022, 404, 139738.	5.2	10
2	Marine shrimp/tin waste as a negative electrode for rechargeable sodium-ion batteries. <i>Journal of Cleaner Production</i> , 2022, 359, 131994.	9.3	9
3	A dual vanadium substitution strategy for improving NASICON-type cathode materials for Na-ion batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4095-4103.	4.9	2
4	Effect of the Mn/V ratio to optimize the kinetic properties of Na _{3+x} MnxV _{1-x} Cr(PO ₄) ₃ positive electrode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2021, 375, 137982.	5.2	15
5	On the benefits of Cr substitution on Na ₄ MnV(PO ₄) ₃ to improve the high voltage performance as cathode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2021, 495, 229811.	7.8	32
6	Reversible Multi-Electron Storage Enabled by Na ₅ V(PO ₄) ₂ F ₂ for Rechargeable Magnesium Batteries. <i>Energy Storage Materials</i> , 2021, 38, 462-472.	18.0	21
7	Iron substitution in Na ₄ V ₂ Mn(PO ₄) ₃ as a strategy for improving the electrochemical performance of sodium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115533.	3.8	9
8	Highly dispersed oleic-induced nanometric C@Na ₃ V ₂ (PO ₄) ₂ F ₃ composites for efficient Na-ion batteries. <i>Electrochimica Acta</i> , 2020, 332, 135502.	5.2	29
9	Effect of chromium doping on Na ₃ V ₂ (PO ₄) ₂ F ₃ @C as promising positive electrode for sodium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113694.	3.8	39
10	Influence of Cosurfactant on the Synthesis of Surface-Modified Na _{2/3} Ni _{1/3} Mn _{2/3} O ₂ as a Cathode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 3528-3534.	3.4	5
11	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.	5.1	20
12	Inorganic solids for dual magnesium and sodium battery electrodes. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2565-2573.	2.5	3
13	Sustainable and Environmentally Friendly Na and Mg Aqueous Hybrid Batteries Using Na and K Birnessites. <i>Molecules</i> , 2020, 25, 924.	3.8	5
14	Increasing Energy Density with Capacity Preservation by Aluminum Substitution in Sodium Vanadium Phosphate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21651-21660.	8.0	26
15	Carbon nanomaterials for advanced lithium and sodium-ion batteries. , 2019, , 335-355.		0
16	Exploring the high-voltage Mg ²⁺ /Na ⁺ co-intercalation reaction of Na ₃ VCr(PO ₄) ₃ in Mg-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18081-18091.	10.3	29
17	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.	7.8	37
18	Morphological adaptability of graphitic carbon nanofibers to enhance sodium insertion in a diglyme-based electrolyte. <i>Dalton Transactions</i> , 2019, 48, 5417-5424.	3.3	8

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19	On the use of guanidine hydrochloride soft template in the synthesis of Na ₂ /3Ni ₁ /3Mn ₂ /3O ₂ cathodes for sodium-ion batteries. Journal of Alloys and Compounds, 2019, 789, 1035-1045.	5.5	13
20	On the Beneficial Effect of MgCl ₂ as Electrolyte Additive to Improve the Electrochemical Performance of Li ₄ Ti ₅ O ₁₂ as Cathode in Mg Batteries. Nanomaterials, 2019, 9, 484.	4.1	8
21	On the Effect of Silicon Substitution in Na ₃ V ₂ (PO ₄) ₃ on the Electrochemical Behavior as Cathode for Sodium-Ion Batteries. ChemElectroChem, 2018, 5, 367-374.	3.4	33
22	NASICON-type Na ₃ V ₂ (PO ₄) ₃ as a new positive electrode material for rechargeable aluminium battery. Electrochimica Acta, 2018, 260, 798-804.	5.2	51
23	Exploring an Aluminum Ion Battery Based on Molybdate as Working Electrode and Ionic Liquid as Electrolyte. Journal of the Electrochemical Society, 2018, 165, A2994-A2999.	2.9	27
24	On the influence of particle morphology to provide high performing chemically desodiated C@NaV ₂ (PO ₄) ₃ as cathode for rechargeable magnesium batteries. Journal of Electroanalytical Chemistry, 2018, 827, 128-136.	3.8	16
25	Applicability of Molybdate as an Electrode Material in Calcium Batteries: A Structural Study of Layer-type Ca _x MoO ₃ . Chemistry of Materials, 2018, 30, 5853-5861.	6.7	63
26	On the Mechanism of Magnesium Storage in Micro- and Nano-Particulate Tin Battery Electrodes. Nanomaterials, 2018, 8, 501.	4.1	22
27	Sodium storage behavior of Na _{0.66} Ni _{0.33} ẂxZnxMn _{0.67} O ₂ (x = 0, 0.07 and 0.14) positive materials in diglyme-based electrolytes. Journal of Power Sources, 2018, 400, 317-324.	7.8	21
28	Treasure Na-ion anode from trash coke by adept electrolyte selection. Journal of Power Sources, 2017, 347, 127-135.	7.8	40
29	Induced Rate Performance Enhancement in Off-Stoichiometric Na _{3+3x} V ₂ (PO ₄) ₃ with Potential Applicability as the Cathode for Sodium-Ion Batteries. Chemistry - A European Journal, 2017, 23, 7345-7352.	3.3	26
30	On the effect of carbon content for achieving a high performing Na ₃ V ₂ (PO ₄) ₃ /C nanocomposite as cathode for sodium-ion batteries. Journal of Electroanalytical Chemistry, 2017, 784, 47-54.	3.8	49
31	Na ₃ V ₂ (PO ₄) ₃ as electrode material for rechargeable magnesium batteries: a case of sodium-magnesium hybrid battery. Electrochimica Acta, 2017, 246, 908-913.	5.2	47
32	Improved Surface Stability of C+M _x O _y @Na ₃ V ₂ (PO ₄) ₃ Prepared by Ultrasonic Method as Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 1471-1478.	8.0	37
33	Insight into the Electrochemical Sodium Insertion of Vanadium Superstoichiometric NASICON Phosphate. Inorganic Chemistry, 2017, 56, 11845-11853.	4.0	15
34	Nanometric P ₂ -Na ₂ /3Fe ₁ /3Mn ₂ /3O ₂ with controlled morphology as cathode for sodium-ion batteries. Journal of Alloys and Compounds, 2017, 724, 465-473.	5.5	37
35	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
36	Nanostructured TiO ₂ Materials for New-Generation Li-Ion Batteries. , 2017, , 171-221.		0

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37	Synthesis of Porous and Mechanically Compliant Carbon Aerogels Using Conductive and Structural Additives. Gels, 2016, 2, 4.	4.5	19
38	High-Performance Na ₃ V ₂ (PO ₄) ₃ /C Cathode for Sodium-Ion Batteries Prepared by a Ball-Milling-Assisted Method. European Journal of Inorganic Chemistry, 2016, 2016, 3212-3218.	2.0	42
39	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
40	Advancing towards a veritable calcium-ion battery: CaCo ₂ O ₄ positive electrode material. Electrochemistry Communications, 2016, 67, 59-64.	4.7	107
41	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
42	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
43	Na ₃ V ₂ (PO ₄) ₃ /C Nanorods with Improved Electrode-Electrolyte Interface As Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23151-23159.	8.0	92
44	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
45	Reversible intercalation of aluminium into vanadium pentoxide xerogel for aqueous rechargeable batteries. RSC Advances, 2016, 6, 62157-62164.	3.6	91
46	On the use of diatomite as antishrinkage additive in the preparation of monolithic carbon aerogels. Carbon, 2016, 98, 280-284.	10.3	6
47	High Performance Full Sodium-Ion Cell Based on a Nanostructured Transition Metal Oxide as Negative Electrode. Chemistry - A European Journal, 2015, 21, 14879-14885.	3.3	28
48	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.	2.9	141
49	N-doped monolithic carbon aerogel electrodes with optimized features for the electrosorption of ions. Carbon, 2015, 83, 262-274.	10.3	118
50	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
51	Self-assembled Li ₄ Ti ₅ O ₁₂ /TiO ₂ /Li ₃ PO ₄ for integrated Li-ion microbatteries. Electrochemistry Communications, 2015, 56, 61-64.	4.7	12
52	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
53	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.	3.4	137
54	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. CrystEngComm, 2015, 17, 8728-8735.	2.6	71

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55	Effect of aluminum doping on carbon loaded Na ₃ V ₂ (PO ₄) ₃ as cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2015, 180, 824-830.	5.2	115
56	Microwave-assisted hydrothermal synthesis of magnetite nanoparticles with potential use as anode in lithium ion batteries. <i>Materials Research</i> , 2014, 17, 1065-1070.	1.3	12
57	Effect of the resorcinol/catalyst ratio in the capacitive performance of carbon xerogels with potential use in sodium chloride removal from saline water. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2847-2856.	2.5	14
58	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.	5.2	81
59	High reversible sodium insertion into iron substituted Na _{1+x} Ti _{2-x} Fe _x (PO ₄) ₃ . <i>Journal of Power Sources</i> , 2014, 252, 208-213.	7.8	54
60	Improved lithium-ion transport in NASICON-type lithium titanium phosphate by calcium and iron doping. <i>Solid State Ionics</i> , 2014, 262, 573-577.	2.7	46
61	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.	2.9	26
62	Influence of composition modification on Ca _{0.5-x} Mg _x Ti ₂ (PO ₄) ₃ (0.0 ≤ x ≤ 0.5) nanoparticles as electrodes for lithium batteries. <i>Materials Research Bulletin</i> , 2014, 49, 566-571.	5.2	2
63	Nanoscale Tin Heterostructures for Improved Energy Storage in Lithium Batteries. <i>ACS Symposium Series</i> , 2013, , 1-22.	0.5	0
64	Tunable Ti ⁴⁺ /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.	6.7	18
65	Improved coulombic efficiency in nanocomposite thin film based on electrodeposited-oxidized FeNi-electrodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2013, 557, 82-90.	5.5	8
66	Electrosorption of environmental concerning anions on a highly porous carbon aerogel. <i>Journal of Electroanalytical Chemistry</i> , 2013, 708, 80-86.	3.8	23
67	Transition metal oxide thin films with improved reversibility as negative electrodes for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 27, 152-155.	4.7	40
68	¹¹⁹ Sn Mössbauer spectroscopy analysis of Sn-Co-C composites prepared from a Fuel Oil Pyrolysis precursor as anodes for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2013, 138, 747-754.	4.0	5
69	Towards an all-solid-state battery: Preparation of conversion anodes by electrodeposition-oxidation processes. <i>Journal of Power Sources</i> , 2013, 244, 403-409.	7.8	7
70	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.	10.3	16
71	Improved Energy Storage Solution Based on Hybrid Oxide Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 46-56.	6.7	61
72	Unfolding the role of iron in Li-ion conversion electrode materials by ⁵⁷ Fe Mössbauer spectroscopy. , 2013, , 489-495.		0

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73	Novel fabrication technologies of 1D TiO ₂ nanotubes, vertical tin and iron-based nanowires for Li-ion microbatteries. International Journal of Nanotechnology, 2012, 9, 260.	0.2	9
74	In Situ X-ray Diffraction Study of Electrochemical Insertion in Mg _{0.5} Ti ₂ (PO ₄) ₃ : An Electrode Material for Lithium or Sodium Batteries. Journal of the Electrochemical Society, 2012, 159, A1716-A1721.	2.9	18
75	The influence of iron substitution on the electrochemical properties of Li _{1+x} Ti _{2-x} Fe _x (PO ₄) ₃ /C composites as electrodes for lithium batteries. Journal of Materials Chemistry, 2012, 22, 21602.	6.7	29
76	Unfolding the role of iron in Li-ion conversion electrode materials by ⁵⁷ Fe Mössbauer spectroscopy. Hyperfine Interactions, 2012, 207, 53-59.	0.5	11
77	A facile carbothermal preparation of Sn-Co-C composite electrodes for Li-ion batteries using low-cost carbons. Journal of Solid State Electrochemistry, 2012, 16, 953-962.	2.5	22
78	Chromium substitution in ion exchanged Li ₃ Fe ₂ (PO ₄) ₃ and the effects on the electrochemical behavior as cathodes for lithium batteries. Electrochimica Acta, 2012, 62, 124-131.	5.2	13
79	Electrochemical performance of the lithium insertion in Mn _{0.5-x} Co _x Ti ₂ (PO ₄) ₃ /C composites (x=0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0). Journal of Electroanalytical Chemistry, 2012, 714, 1-15.	5.2	15
80	Improving the cyclability of sodium-ion cathodes by selection of electrolyte solvent. Journal of Power Sources, 2012, 197, 314-318.	7.8	64
81	Electrochemical response of carbon aerogel electrodes in saline water. Journal of Electroanalytical Chemistry, 2012, 671, 92-98.	3.8	57
82	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
83	A ⁵⁷ Fe Mössbauer spectroscopy study of cobalt ferrite conversion electrodes for Li-ion batteries. Journal of Power Sources, 2011, 196, 6978-6981.	7.8	17
84	Recent advances in nanocrystalline intermetallic tin compounds for the negative electrode of lithium ion batteries. , 2011, , .		0
85	On the role of faradaic and capacitive contributions in the electrochemical performance of CoFe ₂ O ₄ as conversion anode for Li-ion cells. Solid State Ionics, 2010, 181, 616-622.	2.7	46
86	Sn-Co-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
87	On the use of the reverse micelles synthesis of nanomaterials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 1749-1753.	2.5	8
88	NiMn ₂ FeO ₄ 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
89	On the electrochemical performance of anthracite-based graphite materials as anodes in lithium-ion batteries. Fuel, 2010, 89, 986-991.	6.4	84
90	Nanoarchitected TiO ₂ /SnO: A Future Negative Electrode for High Power Density Li-Ion Microbatteries?. Chemistry of Materials, 2010, 22, 1926-1932.	6.7	107

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91	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
92	The Origin of Capacity Fading in NiFe_2O_4 Conversion Electrodes for Lithium Ion Batteries Unfolded by ^{57}Fe Mössbauer Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12828-12832.	3.1	81
93	Effect of oxidation on the performance of low-temperature petroleum cokes as anodes in lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 899-906.	2.9	2
94	TiO ₂ nanotubes manufactured by anodization of Ti thin films for on-chip Li-ion 2D microbatteries. <i>Electrochimica Acta</i> , 2009, 54, 4262-4268.	5.2	137
95	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
96	Alternative Li-Ion Battery Electrode Based on Self-Organized Titania Nanotubes. <i>Chemistry of Materials</i> , 2009, 21, 63-67.	6.7	320
97	^{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.	3.1	42
98	Elucidation of Capacity Fading on CoFe_2O_4 Conversion Electrodes for Lithium Batteries Based on ^{57}Fe Mössbauer Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2009, 156, A589.	2.9	24
99	A ^{57}Fe Mössbauer spectroscopy study of iron nanoparticles obtained in situ in conversion ferrite electrodes. <i>Hyperfine Interactions</i> , 2008, 183, 1-5.	0.5	2
100	^{119}Sn Mössbauer spectroscopy: a powerful tool to unfold the reaction mechanism in advanced electrodes for lithium-ion batteries. <i>Hyperfine Interactions</i> , 2008, 187, 13-17.	0.5	10
101	Electrochemical evaluation of CuFe_2O_4 samples obtained by sol-gel methods used as anodes in lithium batteries. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 729-737.	2.5	85
102	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.	2.7	55
103	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
104	Formation and Oxidation of Nanosized Metal Particles by Electrochemical Reaction of Li and Na with NiCo_2O_4 : X-ray Absorption Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4636-4642.	3.1	103
105	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.	3.1	58
106	Lithium Insertion into Modified Conducting Domains of Graphitized Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2007, 154, A964.	2.9	14
107	^{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.	2.1	47
108	Tin-carbon composites as anodic material in Li-ion batteries obtained by copyrolysis of petroleum vacuum residue and SnO_2 . <i>Carbon</i> , 2007, 45, 1396-1409.	10.3	29

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109	Sol-gel preparation of cobalt manganese mixed oxides for their use as electrode materials in lithium cells. <i>Electrochimica Acta</i> , 2007, 52, 7986-7995.	5.2	146
110	Comparative analysis of the changes in local Ni/Mn environment in lithium-nickel-manganese oxides with layered and spinel structure during electrochemical extraction and reinsertion of lithium. <i>Journal of Power Sources</i> , 2007, 174, 519-523.	7.8	15
111	CoFe ₂ O ₄ and NiFe ₂ O ₄ synthesized by sol-gel procedures for their use as anode materials for Li ion batteries. <i>Journal of Power Sources</i> , 2007, 172, 379-387.	7.8	306
112	EPR, NMR, and Electrochemical Studies of Surface-Modified Carbon Microbeads. <i>Chemistry of Materials</i> , 2006, 18, 2293-2301.	6.7	71
113	Electrochemical improvement of low-temperature petroleum cokes by chemical oxidation with H ₂ O ₂ for their use as anodes in lithium ion batteries. <i>Electrochimica Acta</i> , 2006, 52, 1281-1289.	5.2	7
114	Iron-carbon composites as electrode materials in lithium batteries. <i>Carbon</i> , 2006, 44, 1762-1772.	10.3	20
115	Electrochemical and ¹¹⁹ Sn Mössbauer studies of the reaction of Co ₂ SnO ₄ with lithium. <i>Electrochemistry Communications</i> , 2006, 8, 731-736.	4.7	34
116	EPR studies of Li deintercalation from LiCoMnO ₄ spinel-type electrode active material. <i>Journal of Power Sources</i> , 2006, 159, 1389-1394.	7.8	31
117	Influence of the oxidative stabilisation treatment time on the electrochemical performance of anthracene oils cokes as electrode materials for lithium batteries. <i>Journal of Power Sources</i> , 2006, 161, 1324-1334.	7.8	8
118	X-ray Absorption Spectroscopic Study of LiCoO ₂ as the Negative Electrode of Lithium-Ion Batteries. <i>ChemPhysChem</i> , 2006, 7, 1086-1091.	2.1	25
119	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.	3.8	28
120	Composite electrode materials for lithium-ion batteries obtained by metal oxide addition to petroleum vacuum residua. <i>Carbon</i> , 2005, 43, 923-936.	10.3	12
121	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.	5.2	22
122	Effect of oxidative stabilization on the electrochemical performance of carbon mesophases as electrode materials for lithium batteries. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 627-633.	2.5	5
123	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.	2.9	24
124	Carbon Microspheres Obtained from Resorcinol-Formaldehyde as High-Capacity Electrodes for Sodium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A222.	2.2	313
125	Photoelectron Spectroscopic Study of the Reaction of Li and Na with NiCo ₂ O ₄ . <i>Chemistry of Materials</i> , 2005, 17, 5202-5208.	6.7	85
126	Synergistic Effects of Double Substitution in LiNi _{0.5-y} Fe _y Mn _{1.5} O ₄ Spinel as 5 V Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2005, 152, A13.	2.9	53

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127	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
128	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
129	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.	3.8	121
130	⁵⁷ Fe Mössbauer spectroscopy and surface modification with zinc and magnesium of LiCo _{0.8} Fe _{0.2} MnO ₄ 5V electrodes. Journal of Power Sources, 2004, 135, 281-285.	7.8	6
131	Nanodispersed iron, tin and antimony in vapour grown carbon fibres for lithium batteries: an EPR and electrochemical study. Carbon, 2004, 42, 2153-2153.	10.3	1
132	Changes in the Local Structure of LiMg _y Ni _{0.5-y} Mn _{1.5} O ₄ Electrode Materials during Lithium Extraction. Chemistry of Materials, 2004, 16, 1573-1579.	6.7	107
133	New LiNi _[sub y] Co _[sub 1-2y] 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
134	Structural and Electrochemical Study of New LiNi _{0.5} Ti _x Mn _{1.5-x} O ₄ Spinel Oxides for 5-V Cathode Materials.. ChemInform, 2003, 34, no.	0.0	0
135	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
136	Lithium insertion mechanism in Sb-based electrode materials from ¹²¹ Sb Mössbauer spectrometry. Journal of Power Sources, 2003, 119-121, 585-590.	7.8	48
137	Changes in oxidation state and magnetic order of iron atoms during the electrochemical reaction of lithium with NiFe ₂ O ₄ . Electrochemistry Communications, 2003, 5, 16-21.	4.7	109
138	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.	6.7	121
139	Electrochemical, ⁶ Li MAS NMR, and X-ray and Neutron Diffraction Study of LiCo _x Fe _y Mn _{2-(x+y)} O ₄ Spinel Oxides for High-Voltage Cathode Materials. Chemistry of Materials, 2003, 15, 1210-1216.	6.7	32
140	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
141	X-ray Diffraction, ⁷ Li MAS NMR Spectroscopy, and ¹¹⁹ Sn Mössbauer Spectroscopy Study of SnSb-Based Electrode Materials. Chemistry of Materials, 2002, 14, 2962-2968.	6.7	49
142	New Ni _x Mg _{6-x} MnO ₈ 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
143	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.	5.2	134
144	EPR study on petroleum cokes annealed at different temperatures and used in lithium and sodium batteries. Carbon, 2002, 40, 2301-2306.	10.3	52

#	ARTICLE	IF	CITATIONS
145	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.	6.7	458
146	In Situ Preparation of Composite Electrodes: Antimony Alloys and Compounds. , 2002, , 193-200.		1
147	Carbon-Based Negative Electrodes of Lithium-Ion Batteries Obtained from Residua of the Petroleum Industry. , 2002, , 101-108.		0
148	On the Use of In-Situ Generated Tin-Based Composite Materials in Lithium-Ion Cells. , 2002, , 201-208.		0
149	Cobalt(III) Effect on ²⁷ Al NMR Chemical Shifts in LiAl _x Co _{1-x} O ₂ . Journal of Physical Chemistry B, 2001, 105, 8081-8087.	2.6	40
150	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
151	Key factors controlling the electrochemical performance of the cation-deficient mixed spinel oxide Mn _{2.2} Co _{0.27} O ₄ as cathode in 3 V rechargeable lithium batteries. Journal of Power Sources, 2001, 94, 122-128.	7.8	0
152	Carbon black: a promising electrode material for sodium-ion batteries. Electrochemistry Communications, 2001, 3, 639-642.	4.7	355
153	Electrochemical reactions of polycrystalline CrSb ₂ in lithium batteries. Journal of Electroanalytical Chemistry, 2001, 501, 205-209.	3.8	64
154	Co/Mn distribution and electrochemical intercalation of Li into Li[Mn _{2-γ} Coy]O ₄ spinels, 0< γ %1. Solid State Ionics, 2001, 140, 19-33.	2.7	22
155	Chemical delithiation, thermal transformations and electrochemical behaviour of iron- substituted lithium nickelate.. Materials Research Society Symposia Proceedings, 2000, 658, 971.	0.1	0
156	Effects of Partial Acid Delithiation on the Electrochemical Lithium Insertion Properties of Nickel-Stabilized LiMn ₂ O ₄ Spinel Oxides. Journal of Solid State Chemistry, 2000, 150, 196-203.	2.9	10
157	Characterisation of mesocarbon microbeads (MCMB) as active electrode material in lithium and sodium cells. Carbon, 2000, 38, 1031-1041.	10.3	136
158	Electrochemical and ¹¹⁹ Sn Mössbauer study of sulfospinel as anode materials for lithium-ion batteries. Electrochimica Acta, 2000, 46, 127-135.	5.2	9
159	X-ray and neutron diffraction, ⁵⁷ Fe Mössbauer spectroscopy and X-ray absorption spectroscopy studies of iron-substituted lithium cobaltate. Solid State Communications, 2000, 115, 1-6.	1.9	9
160	Aluminium coordination in LiNi _{1-γ} Al γ O ₂ solid solutions. Solid State Ionics, 2000, 128, 1-10.	2.7	42
161	Lithium insertion mechanism in SnS ₂ . Physical Review B, 2000, 61, 3110-3116.	3.2	60
162	EPR Studies on the Microstructure of LiNi _{1-γ} CoyO ₂ Electrode Materials for Lithium-Ion Batteries. , 2000, , 491-495.		0

#	ARTICLE	IF	CITATIONS
163	Electrochemical Sodium Insertion into MnCo Oxide. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 545.	2.2	12
164	X-ray diffraction, ^{57}Fe Mössbauer and step potential electrochemical spectroscopy study of $\text{LiFe}_x\text{Co}_{1-x}\text{O}_2$ compounds. <i>Journal of Power Sources</i> , 1999, 81-82, 547-553.	7.8	48
165	Nickel-stabilized composite manganese oxides as lithium insertion electrodes. <i>Journal of Power Sources</i> , 1999, 84, 75-79.	7.8	7
166	Electrochemical proton insertion in $\text{Mn}_{2.2}\text{Co}_{0.27}\text{O}_4$ from aqueous borate solution. <i>Electrochimica Acta</i> , 1999, 45, 931-934.	5.2	3
167	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.	2.5	74
168	Electrochemical reaction of lithium with the CoSb_3 skutterudite. <i>Journal of Materials Chemistry</i> , 1999, 9, 2517-2521.	6.7	128
169	Electrochemical lithium and sodium intercalation into the tantalum-rich layered chalcogenides Ta_2Se and Ta_2Te_3 . <i>Journal of Alloys and Compounds</i> , 1999, 282, 93-100.	5.5	10
170	Structural Characterization and Electrochemical Reactions with Lithium of $\text{Cu}_2\text{CoTi}_x\text{Sn}_{3-x}\text{S}_8$ Solid Solutions. <i>Chemistry of Materials</i> , 1999, 11, 2687-2693.	6.7	15
171	^{13}C , ^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. <i>Chemistry of Materials</i> , 1999, 11, 52-60.	6.7	25
172	Lithium insertion electrodes based on niobium telluride thin films. <i>Electrochimica Acta</i> , 1998, 43, 495-502.	5.2	1
173	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.	3.8	16
174	X-ray Diffraction, EPR, and ^6Li and ^{27}Al MAS NMR Study of LiAlO_2 - LiCoO_2 Solid Solutions. <i>Inorganic Chemistry</i> , 1998, 37, 264-269.	4.0	62
175	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.	2.9	53
176	^{121}Sb 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.	6.7	20
177	Lithium-Nickel Citrate Precursors for the Preparation of LiNiO_2 Insertion Electrodes. <i>Chemistry of Materials</i> , 1997, 9, 2145-2155.	6.7	51
178	Structure and Dynamics of Lithium-Intercalated $\text{SnS}_{2.67}\text{Li}$ and ^{119}Sn Solid State NMR. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6715-6723.	2.6	22
179	Novel layered chalcogenides as electrode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 1997, 68, 704-707.	7.8	18
180	VSe_2 - YSy electrodes in lithium and lithium-ion cells. <i>Journal of Applied Electrochemistry</i> , 1997, 27, 1207-1211.	2.9	20

#	ARTICLE	IF	CITATIONS
181	EPR studies of $\text{Li}_{1-x}(\text{Ni}_y\text{Co}_{1-y})_{1+x}\text{O}_2$ solid solutions. Solid State Communications, 1997, 102, 457-462.	1.9	34
182	Structure and Electrochemical Properties of Boron-Doped LiCoO_2 . Journal of Solid State Chemistry, 1997, 134, 265-273.	2.9	140
183	Lithium intercalation and copper extraction in spinel sulfides of general formula $\text{Cu}_2\text{MSn}_3\text{S}_8$ (M = Mn, Fe, Co, Ni, Zn, Cd, Pb, Bi, Sb, Sn, Te, Se, S). Journal of Solid State Chemistry, 1997, 134, 274-283.	0.784314	21
184	Intercalation of n-alkylamines into misfit layer sulfides. Journal of Materials Chemistry, 1996, 6, 861-866.	6.7	5
185	Sodium Intercalation into $(\text{PbS})_{1.18}(\text{TiS}_2)_2$ Misfit Layer Compound. Journal of Solid State Chemistry, 1996, 124, 238-243.	2.9	7
186	Microstructure and intercalation properties of petrol cokes obtained at 1400°C . Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 39, 216-223.	3.5	13
187	New tin-containing spinel sulfide electrodes for ambient temperature rocking chair cells. Journal of Power Sources, 1996, 62, 101-105.	7.8	27
188	Kinetic and thermodynamic aspects of lithium intercalation into lead tantalum sulfide and tin tantalum sulfide misfit layer compounds. Solid State Ionics, 1995, 76, 57-65.	2.7	0
189	^{119}Sn Moessbauer Spectroscopy of Some Misfit Layer Sulfides. Chemistry of Materials, 1995, 7, 1193-1197.	6.7	8
190	Thermodynamic and kinetic properties of lithium insertion into titanium misfit layer sulfides. Journal of Materials Chemistry, 1994, 4, 1413.	6.7	3
191	Chemical and electrochemical intercalation of lithium into SnTiS_3 and BiTi_2S_5 misfit layer compounds. Solid State Ionics, 1993, 63-65, 450-456.	2.7	7
192	Hydrated lithium intercalation compounds of misfit layer sulfides. Chemistry of Materials, 1992, 4, 2-4.	6.7	12
193	Electrochemical lithium intercalation into misfit layer sulfides. Chemistry of Materials, 1992, 4, 1021-1026.	6.7	21
194	Chemical and electrochemical lithium insertion into ternary transition metal sulfides MMo_2S_4 (M: V, Cr, Mn, Fe, Co, Ni, Zn, Cd, Pb, Bi, Sb, Sn, Te, Se, S). Journal of Solid State Chemistry, 1992, 98, 1-10.	7.8	1
195	Structural aspects of lithium intercalated PbVS_3 , PbTiS_3 , PbTi_2S_5 and SnNbS_3 misfit layer compounds. Materials Research Bulletin, 1991, 26, 1211-1218.	5.2	24
196	Relationships between the surface properties of $\gamma\text{-Fe}_2\text{O}_3$ and its cobalt-modified products. Journal of Colloid and Interface Science, 1990, 138, 565-579.	9.4	6