

R K Stoyanova

List of Publications by Year in descending order

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76326

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197
all docs

197
docs citations

197
times ranked

5458
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilization of the layered crystal structure of LiNiO ₂ by Co-substitution. <i>Solid State Ionics</i> , 1993, 66, 143-149.	2.7	225
2	The P2-Na ₂ /3Co ₂ /3Mn ₁ /3O ₂ phase: structure, physical properties and electrochemical behavior as positive electrode in sodium battery. <i>Dalton Transactions</i> , 2011, 40, 9306.	3.3	225
3	Electrocatalytic activity of spinel related cobalties MxCo ₃ âˆ™xO ₄ (M = Li, Ni, Cu) in the oxygen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 1997, 429, 157-168.	3.8	217
4	Effect of Mg doping and MgO-surface modification on the cycling stability of LiCoO ₂ electrodes. <i>Electrochemistry Communications</i> , 2001, 3, 410-416.	4.7	177
5	Structure and Electrochemical Properties of Boron-Doped LiCoO ₂ . <i>Journal of Solid State Chemistry</i> , 1997, 134, 265-273.	2.9	140
6	Characterisation of mesocarbon microbeads (MCMB) as active electrode material in lithium and sodium cells. <i>Carbon</i> , 2000, 38, 1031-1041.	10.3	136
7	Stabilization of over-stoichiometric Mn ⁴⁺ in layered Na ₂ /3MnO ₂ . <i>Journal of Solid State Chemistry</i> , 2010, 183, 1372-1379.	2.9	124
8	Effect of Mn-substitution for Co on the crystal structure and acid delithiation of LiMnyCo ₁ âˆ™yO ₂ solid solutions. <i>Solid State Ionics</i> , 1994, 73, 233-240.	2.7	123
9	Comparing the Behavior of Nano- and Microsized Particles of LiMn _[sub 1.5] Ni _[sub 0.5] O _[sub 4] Spinel as Cathode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2007, 154, A682.	2.9	110
10	Lithiumâˆ™Cobalt Citrate Precursors in the Preparation of Intercalation Electrode Materials. <i>Chemistry of Materials</i> , 1996, 8, 1429-1440.	6.7	107
11	Changes in the Local Structure of LiMgyNi _{0.5-y} Mn _{1.5} O ₄ Electrode Materials during Lithium Extraction. <i>Chemistry of Materials</i> , 2004, 16, 1573-1579.	6.7	107
12	Study of the nanosized Li ₂ MnO ₃ : Electrochemical behavior, structure, magnetic properties, and vibrational modes. <i>Electrochimica Acta</i> , 2013, 97, 259-270.	5.2	89
13	Ozone decomposition and CO oxidation on CeO ₂ . <i>Journal of Molecular Catalysis A</i> , 1995, 98, 9-14.	4.8	86
14	Electrocatalysts for bifunctional oxygen/air electrodes. <i>Journal of Power Sources</i> , 2008, 185, 727-733.	7.8	82
15	Lithium Storage Mechanisms and Effect of Partial Cobalt Substitution in Manganese Carbonate Electrodes. <i>Inorganic Chemistry</i> , 2012, 51, 5554-5560.	4.0	75
16	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
17	EPR, NMR, and Electrochemical Studies of Surface-Modified Carbon Microbeads. <i>Chemistry of Materials</i> , 2006, 18, 2293-2301.	6.7	71
18	On the Performance of LiNi _[sub 1/3] Mn _[sub 1/3] Co _[sub 1/3] O _[sub 2] Nanoparticles as a Cathode Material for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2009, 156, A938.	2.9	64

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19	Layered Sodium Deficient Nickel Manganese Oxides: A Flexible Structural Matrix for Reversible Sodium and Lithium Intercalation. <i>ChemPlusChem</i> , 2015, 80, 1642-1656.	2.8	63
20	X-ray Diffraction, EPR, and ⁶ Li and ²⁷ Al MAS NMR Study of LiAlO ₂ ~LiCoO ₂ Solid Solutions. <i>Inorganic Chemistry</i> , 1998, 37, 264-269.	4.0	62
21	Decomposition of ozone on Ag/SiO ₂ catalyst for abatement of waste gases emissions. <i>Catalysis Today</i> , 2008, 137, 471-474.	4.4	61
22	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
23	Cationic distribution and electrochemical performance of LiCo _{1/3} Ni _{1/3} Mn _{1/3} O ₂ electrodes for lithium-ion batteries. <i>Solid State Ionics</i> , 2008, 179, 2198-2208.	2.7	55
24	High-Voltage LiNi _{1/2} Mn _{3/2} O ₄ Spinel: Cationic Order and Particle Size Distribution. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25170-25182.	3.1	55
25	Structure and reversible lithium intercalation in a new P ₂₃ -phase: Na _{2/3} Mn _{1-y} FeyO ₂ (y = 0, 1/3, 2/3). <i>Journal of Materials Chemistry</i> , 2012, 22, 23418.	6.7	55
26	Lithium/nickel mixing in the transition metal layers of lithium nickelate: high-pressure synthesis of layered Li[LixNi _{1-x}]O ₂ oxides as cathode materials for lithium-ion batteries. <i>Solid State Ionics</i> , 2003, 161, 197-204.	2.7	54
27	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
28	EPR of Mn ⁴⁺ in spinels Li _{1+x} Mn _{2-x} O ₄ with 0 ≤ x ≤ 0.1. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 609-614.	4.0	52
29	EPR study on petroleum cokes annealed at different temperatures and used in lithium and sodium batteries. <i>Carbon</i> , 2002, 40, 2301-2306.	10.3	52
30	Structure and Electrochemical Properties of Li _{1-x} Ni _x Co _{1-x} O ₂ at 0 °C. <i>Journal of the Electrochemical Society</i> , 1995, 142, 3997-4005.	2.9	51
31	Lithium Nickel Citrate Precursors for the Preparation of LiNiO ₂ Insertion Electrodes. <i>Chemistry of Materials</i> , 1997, 9, 2145-2155.	6.7	51
32	Competitive lithium and sodium intercalation into sodium manganese phospho-olivine NaMnPO ₄ covered with carbon black. <i>RSC Advances</i> , 2015, 5, 87694-87705.	3.6	49
33	Mn ⁴⁺ environment in layered Li[Mg _{0.5-x} Ni _x Mn _{0.5}]O ₂ oxides monitored by EPR spectroscopy. <i>Journal of Solid State Chemistry</i> , 2006, 179, 378-388.	2.9	48
34	Improving of the Thermoelectric Efficiency of LaCoO ₃ by Double Substitution with Nickel and Iron. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13507-13515.	3.1	47
35	Sodium deficient nickel manganese oxides as intercalation electrodes in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19383-19395.	10.3	46
36	Cobalt hydroxide nitrate hydrate, Co(OH)(NO ₃).nH ₂ O: a novel double-chain compound with competing interactions. <i>Inorganic Chemistry</i> , 1992, 31, 1514-1517.	4.0	45

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37	Precursor-based methods for low-temperature synthesis of defectless NaMnPO ₄ with an olivine- and maricite-type structure. <i>CrystEngComm</i> , 2013, 15, 9080.	2.6	44
38	Aluminium coordination in LiNi _{1-x} Al _y O ₂ solid solutions. <i>Solid State Ionics</i> , 2000, 128, 1-10.	2.7	42
39	From krÄ¶hnkite- to alluaudite-type of structure: novel method of synthesis of sodium manganese sulfates with electrochemical properties in alkali-metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22287-22299.	10.3	42
40	Layered $\text{P}_{3-x}\text{Na}_x\text{Co}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$ versus Spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ as a Positive and a Negative Electrode in a Full Sodium-Lithium Cell. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17321-17333.	8.0	42
41	Cobalt(III) Effect on ²⁷ Al NMR Chemical Shifts in LiAl _x Co _{1-x} O ₂ . <i>Journal of Physical Chemistry B</i> , 2001, 105, 8081-8087.	2.6	40
42	Nano-crystalline LiMnPO ₄ prepared by a new phosphate-formate precursor method. <i>Materials Chemistry and Physics</i> , 2010, 121, 370-377.	4.0	40
43	Long-Length Titania Nanotubes Obtained by High-Voltage Anodization and High-Intensity Ultrasonication for Superior Capacity Electrode. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20182-20190.	3.1	39
44	EPR monitoring of Mn 4+ distribution in Li ₄ Mn ₅ O ₁₂ spinels. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 615-620.	4.0	38
45	Ordered Olivine-Type Lithium-Cobalt and Lithium-Nickel Phosphates Prepared by a New Precursor Method. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4091-4099.	2.0	38
46	Luminescence and EPR studies on strontium carbonate obtained by thermal decomposition of strontium oxalate. <i>Journal of Physics and Chemistry of Solids</i> , 1986, 47, 409-412.	4.0	37
47	Bulk defects in Co ₃ O ₄ , pure and slightly doped with lithium, revealed by EPR of the tetrahedral Co ²⁺ ions. <i>Journal of Physics and Chemistry of Solids</i> , 1990, 51, 1157-1161.	4.0	37
48	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.	1.9	36
49	Magnetic interactions in layered LiNiO ₂ revealed by EPR of Ni ³⁺ . <i>Journal of Physics and Chemistry of Solids</i> , 1993, 54, 9-13.	4.0	35
50	A new phosphate-formate precursor method for the preparation of carbon coated nano-crystalline LiFePO ₄ . <i>Journal of Alloys and Compounds</i> , 2009, 476, 950-957.	5.5	35
51	Crystal structure, microstructure and reducibility of LaNi _x Co _{1-x} O ₃ and LaFe _x Co _{1-x} O ₃ Perovskites (0 ≤ x ≤ 0.5). <i>Journal of Solid State Chemistry</i> , 2010, 183, 940-950.	2.9	35
52	EPR studies of Li _{1-x} (Ni _y Co _{1-y}) _{1+x} O ₂ solid solutions. <i>Solid State Communications</i> , 1997, 102, 457-462.	1.9	34
53	Microstructure of Li _{1+x} Mn _{2-x} O ₄ spinels obtained from metal-organic precursors. <i>Journal of Materials Chemistry</i> , 1999, 9, 1559-1567.	6.7	33
54	Surface interaction of LiNi _{0.8} Co _{0.2} O ₂ cathodes with MgO. <i>Solid State Sciences</i> , 2003, 5, 711-720.	3.2	33

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55	Effect of Sodium Content on the Reversible Lithium Intercalation into Sodium-Deficient Cobalt-Nickel-Manganese Oxides $\text{Na}_{1-x}\text{Co}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$ (0.38 at%) Tj ETQ 1 1 0.784314 rg BT	3.1	33
56	$\text{Li}_{1-x}\text{HyCoO}_2$: Metastable Layered Phases Obtained by Acid Digestion of $\text{LiCoO}_2(\text{O}_3)$. Journal of Solid State Chemistry, 1994, 109, 47-52.	2.9	31
57	EPR studies of Li deintercalation from LiCoMnO_4 spinel-type electrode active material. Journal of Power Sources, 2006, 159, 1389-1394.	7.8	31
58	Electron Paramagnetic Resonance, X-ray Diffraction, Mössbauer Spectroscopy, and Electrochemical Studies on Nanocrystalline FeSn_2 Obtained by Reduction of Salts in Tetraethylene Glycol. Chemistry of Materials, 2010, 22, 2268-2275.	6.7	31
59	Effect of the synthesis route on the microstructure and the reducibility of LaCoO_3 . Journal of Alloys and Compounds, 2009, 480, 279-285.	5.5	30
60	Effects of the Particle Size Distribution and of the Electrolyte Salt on the Intercalation Properties of $\text{P}_3\text{Ni}_{1/2}\text{Mn}_{1/2}\text{O}_2$. Journal of Physical Chemistry C, 2017, 121, 5931-5940.	3.1	30
61	EPR evidence on short-range Co/Mn order in LiCoMnO_4 spinels. Journal of Materials Chemistry, 2000, 10, 1377-1381.	6.7	29
62	Local Coordination of Low-Spin Ni^{3+} Probes in Trigonal $\text{LiAl}_y\text{Co}_{1-y}\text{O}_2$ Monitored by HF-EPR. Journal of Physical Chemistry B, 2004, 108, 4053-4057.	2.6	29
63	Changes in local Ni/Mn environment in layered $\text{LiMg}_x\text{Ni}_{0.5-x}\text{Mn}_{0.5}\text{O}_2$ (0 at% x at% 0.10) after electrochemical extraction and reinsertion of lithium. Journal of Materials Chemistry, 2006, 16, 359-369.	6.7	28
64	Ni^{3+} \leftrightarrow Ni^{2+} segregation in $\text{Li}_x\text{Ni}_{2-x}\text{O}_2$ solid solutions (0.6 at% x < 1). Solid State Ionics, 1994, 73, 1-7.	2.7	27
65	High-Frequency Electron Paramagnetic Resonance Analysis of the Oxidation State and Local Structure of Ni and Mn Ions in Ni,Mn-Codoped LiCoO_2 . Inorganic Chemistry, 2010, 49, 1932-1941.	4.0	27
66	Particle size distribution and electrochemical properties of LiFePO_4 prepared by a freeze-drying method. Journal of Physics and Chemistry of Solids, 2010, 71, 848-853.	4.0	27
67	Nano-domain structure of $\text{Li}_4\text{Mn}_5\text{O}_{12}$ spinel. Journal of Materials Science, 2011, 46, 7098-7105.	3.7	27
68	Combined use of EPR and ^{23}Na MAS NMR spectroscopy for assessing the properties of the mixed cobalt-nickel-manganese layers of $\text{P}_3\text{Na}_y\text{Co}_{1-x}\text{Ni}_x\text{Mn}_x\text{O}_2$. Physical Chemistry Chemical Physics, 2017, 19, 27065-27073.	2.8	27
69	EPR study of Ni^{3+} -DOPED ACoO_2 (A = H, Li) powders. Journal of Physics and Chemistry of Solids, 1992, 53, 443-448.	4.0	26
70	Facile synthesis of LiMnPO_4 olivines with a plate-like morphology from a dittmarite-type $\text{KMnPO}_4 \cdot \text{H}_2\text{O}$ precursor. Dalton Transactions, 2011, 40, 7385.	3.3	26
71	Acid-Delithiated $\text{Li}_{1-x}(\text{Ni}_y\text{Co}_{1-y})_{1+x}\text{O}_2$ as Insertion Electrodes in Lithium Batteries. Journal of Solid State Chemistry, 1994, 113, 182-192.	2.9	25
72	^{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. Chemistry of Materials, 1999, 11, 52-60.	6.7	25

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73	High-pressure synthesis of solid solutions between trigonal LiNiO ₂ and monoclinic Li[Li _{1/3} Ni _{2/3}]O ₂ . Journal of Solid State Chemistry, 2005, 178, 1661-1669.	2.9	25
74	The electrochemical behavior of low-temperature synthesized FeSn ₂ nanoparticles as anode materials for Li-ion batteries. Journal of Power Sources, 2011, 196, 6768-6771.	7.8	25
75	On the cycling stability of biomass-derived carbons as electrodes in supercapacitors. Journal of Alloys and Compounds, 2019, 803, 882-890.	5.5	25
76	Carbon-coated nano-sized LiFe _{1-x} Mn _x PO ₄ solid solutions (0 ≤ x ≤ 1) obtained from phosphate precursors. Journal of Materials Science, 2011, 46, 7082-7089.	3.7	24
77	Effect of the synthesis procedure on the local cationic distribution in layered LiNi _{1/2} Mn _{1/2} O ₂ . Journal of Alloys and Compounds, 2009, 475, 96-101.	5.5	23
78	Electrochemical intercalation of Li ⁺ into nanodomain Li ₄ Mn ₅ O ₁₂ . Journal of Alloys and Compounds, 2013, 561, 252-261.	5.5	23
79	Co/Mn distribution and electrochemical intercalation of Li into Li[Mn _{2-γ} Co _γ]O ₄ spinels, 0 < γ ≤ 1. Solid State Ionics, 2001, 140, 19-33.	2.7	22
80	Electron Paramagnetic Resonance and Solid-State NMR Study of Cation Distribution in Li _{1-y} Co _{1-y} O ₂ and Effects on the Electrochemical Oxidation. Journal of Physical Chemistry B, 2003, 107, 4290-4295.	2.6	22
81	Effect of allied and alien ions on the EPR spectrum of Mn ⁴⁺ -containing lithium manganese spinel oxides. Solid State Communications, 2005, 135, 405-410.	1.9	22
82	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
83	Raman Spectroscopy Study on Na _{2/3} Mn _{1-x} Fe _x O ₂ Oxides. Advances in Science and Technology, 0, ,	0.2	21
84	Soft mechanochemically assisted synthesis of nano-sized LiCoO ₂ with a layered structure. Journal of Materials Science, 2011, 46, 7106-7113.	3.7	21
85	Correlations between lithium local structure and electrochemistry of layered LiCo _{1-2x} Ni _x Mn _x O ₂ oxides: ⁷ Li MAS NMR and EPR studies. Physical Chemistry Chemical Physics, 2014, 16, 2499-2507.	2.8	21
86	Impact of Cu(II) and Zn(II) ions on the functional properties of new PAMAM metallodendrimers. New Journal of Chemistry, 2018, 42, 7853-7862.	2.8	21
87	Lithium versus Mono/Polyvalent Ion Intercalation: Hybrid Metal Ion Systems for Energy Storage. Chemical Record, 2019, 19, 474-501.	5.8	21
88	Reversible Multi-Electron Storage Enabled by Na ₅ V(PO ₄) ₂ F ₂ for Rechargeable Magnesium Batteries. Energy Storage Materials, 2021, 38, 462-472.	18.0	21
89	Microstructure of LaCoO ₃ prepared by freeze-drying of metal citrate precursors revealed by EPR. Journal of Physics and Chemistry of Solids, 2007, 68, 168-174.	4.0	20
90	Electrochemical performance and local cationic distribution in layered LiNi _{1/2} Mn _{1/2} O ₂ electrodes for lithium ion batteries. Electrochimica Acta, 2009, 54, 1694-1701.	5.2	20

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91	A fractal-like electrode based on double-wall nanotubes of anatase exhibiting improved electrochemical behaviour in both lithium and sodium batteries. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4687-4695.	2.8	20
92	Doping of Co ₃ O ₄ with lithium by a solid-state reaction in air I. Oxidation degree and coordination of cations. <i>Materials Chemistry and Physics</i> , 1990, 25, 351-360.	4.0	19
93	Modification of Petroleum Coke for Lithium-Ion Batteries by Heat-Treatment with Iron Oxide. <i>Journal of the Electrochemical Society</i> , 2004, 151, A2113.	2.9	19
94	Fe ³⁺ and Ni ³⁺ impurity distribution and electrochemical performance of LiCoO ₂ electrode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2009, 194, 494-501.	7.8	18
95	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
96	“Sandwich”-type clusters revealed by EPR of Ni ³⁺ in a partially ordered Li _x Ni _{1-x} O (x ≈ 0.3). <i>Solid State Ionics</i> , 1993, 59, 17-24.	2.7	17
97	High-pressure synthesis and electrochemical behavior of layered oxides. <i>Journal of Solid State Chemistry</i> , 2005, 178, 2692-2700.	2.9	17
98	Crystal chemistry of Mg substitution in NaMnPO ₄ olivine: concentration limit and cation distribution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12730-12739.	2.8	17
99	Electrospun materials from polylactide and Schiff base derivative of Jeffamine ED [®] and 8-hydroxyquinoline-2-carboxaldehyde and its complex with Cu ²⁺ : Preparation, antioxidant and antitumor activities. <i>Materials Science and Engineering C</i> , 2020, 116, 111185.	7.3	17
100	Low-temperature preparation of a lithium-cobalt spinel (Li _{0.35} Co _{2.65} O ₄) by thermal decomposition of CoOOH in a LiNO ₃ melt. <i>Materials Research Bulletin</i> , 1991, 26, 1315-1322.	5.2	16
101	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
102	Insights into the Function of Electrode and Electrolyte Materials in a Hybrid Lithium–Sodium Ion Cell. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11508-11521.	3.1	16
103	Storage performance of Mg ²⁺ substituted NaMnPO ₄ with an olivine structure. <i>RSC Advances</i> , 2020, 10, 29051-29060.	3.6	16
104	Effect of Alkaline-Basic Electrolytes on the Capacitance Performance of Biomass-Derived Carbonaceous Materials. <i>Materials</i> , 2020, 13, 2941.	2.9	16
105	High-pressure synthesis of Ga-substituted LiCoO ₂ with layered crystal structure. <i>Journal of Materials Chemistry</i> , 2002, 12, 2501-2506.	6.7	15
106	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
107	Doping of Co ₃ O ₄ with lithium by a solid state reaction in air. III. EPR evidence of intrinsic disorder reactions in the tetrahedral interstitials. <i>Materials Chemistry and Physics</i> , 1990, 26, 239-244.	4.0	14
108	Lithium Insertion into Modified Conducting Domains of Graphitized Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2007, 154, A964.	2.9	14

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109	Structural characterization and electrochemical intercalation of Li ⁺ in layered Na _{0.65} Ni _{0.5} Mn _{0.5} O ₂ obtained by freeze-drying method. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2343-2350.	2.5	14
110	Mixed sodium nickel-manganese sulfates: Crystal structure relationships between hydrates and anhydrous salts. <i>Journal of Solid State Chemistry</i> , 2017, 250, 49-59.	2.9	14
111	Selective sodium intercalation into sodium nickel-manganese sulfate for dual Na/Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12755-12766.	2.8	14
112	Synthesis, spectral characterization, and <i>in vitro</i> antimicrobial activity in liquid medium and applied on cotton fabric of a new PAMAM metallodendrimer. <i>International Journal of Polymer Analysis and Characterization</i> , 2018, 23, 45-57.	1.9	14
113	A Cubic Mg ₂ MnO ₄ Cathode for non-aqueous Magnesium Batteries. <i>Energy Storage Materials</i> , 2022, 48, 12-19.	18.0	14
114	Dittmarite precursors for structure and morphology directed synthesis of lithium manganese phospho-olivine nanostructures. <i>CrystEngComm</i> , 2014, 16, 7515.	2.6	13
115	Self-organized sodium titanate/titania nanoforest for the negative electrode of sodium-ion microbatteries. <i>Journal of Alloys and Compounds</i> , 2015, 646, 816-826.	5.5	13
116	New Poly(Propylene Imine) Dendrimer Modified with Acridine and Its Cu(II) Complex: Synthesis, Characterization and Antimicrobial Activity. <i>Materials</i> , 2019, 12, 3020.	2.9	13
117	Crystal and Morphology Design of Dittmarite-Type Ammonium Iron-Manganese Phosphates, NH ₄ Mn _{1-x} Fe _x PO ₄ ·H ₂ O, as Precursors for Phospho-olivine Electrodes. <i>Crystal Growth and Design</i> , 2019, 19, 3744-3754.	3.0	13
118	Mechanochemically Desodiated Na ₄ Fe ₃ (PO ₄) ₂ P ₂ O ₇ as a Lithium and Sodium Storage Material. <i>ACS Applied Energy Materials</i> , 2021, 4, 7182-7189.	5.1	13
119	On the preparation of nanosized Al ₂ (WO ₄) ₃ by a precipitation method. <i>Solid State Sciences</i> , 2010, 12, 2010-2014.	3.2	12
120	High-intensity ultrasonication as a way to prepare graphene/amorphous iron oxyhydroxide hybrid electrode with high capacity in lithium battery. <i>Ultrasonics Sonochemistry</i> , 2015, 24, 238-246.	8.2	12
121	Redox properties of alluaudite sodium cobalt manganese sulfates as high-voltage electrodes for rechargeable batteries. <i>Chemical Communications</i> , 2018, 54, 5466-5469.	4.1	12
122	Synthesis, characterisation and antimicrobial activity of polypropylenamine metallodendrimers modified with 1,8-naphthalimides. <i>Journal of Molecular Structure</i> , 2018, 1164, 363-369.	3.6	12
123	Nickel-manganese structured and multiphase composites as electrodes for hybrid supercapacitors. <i>Electrochimica Acta</i> , 2018, 283, 1063-1071.	5.2	12
124	Synthesis, spectral characteristics and microbiological activity of benzanthrone derivatives and their Cu(II) complexes. <i>Journal of Molecular Structure</i> , 2019, 1197, 576-582.	3.6	12
125	Controlling at Elevated Temperature the Sodium Intercalation Capacity and Rate Capability of P ₃ Na _{2/3} Ni _{1/2} Mn _{1/2} O ₂ through the Selective Substitution of Nickel with Magnesium. <i>Batteries and Supercaps</i> , 2020, 3, 1329-1340.	4.7	12
126	Doping of Co ₃ O ₄ with lithium by a solid state reaction in air II. Distribution of lithium in the solid solution. <i>Materials Chemistry and Physics</i> , 1990, 25, 361-373.	4.0	11

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127	Oxygen-Storage Materials to Stabilize the Oxygen Redox Activity of Three-Layered Sodium Transition Metal Oxides. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7804-7811.	4.6	11
128	Formation of $\text{LiAl}_y\text{Ni}_{1-y}\text{O}_2$ solid solutions under high and atmospheric pressure. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3151-3158.	2.9	10
129	EPR analysis of the local structure of Ni^{3+} ions in Ni-based electrode materials obtained under high-pressure. <i>Journal of Materials Science</i> , 2007, 42, 3343-3348.	3.7	10
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