

Prabeer Barpanda

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142
papers

5,043
citations

38
h-index

68
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164
ext. papers

5,632
ext. citations

6.7
avg, IF

6.08
L-index

#	Paper	IF	Citations
142	A 3.8-V earth-abundant sodium battery electrode. <i>Nature Communications</i> , 2014 , 5, 4358	17.4	581
141	A 3.90 V iron-based fluorosulphate material for lithium-ion batteries crystallizing in the triplite structure. <i>Nature Materials</i> , 2011 , 10, 772-9	27	279
140	Sodium iron pyrophosphate: A novel 3.0 V iron-based cathode for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2012 , 24, 116-119	5.1	268
139	Na ₂ FeP ₂ O ₇ : A Safe Cathode for Rechargeable Sodium-ion Batteries. <i>Chemistry of Materials</i> , 2013 , 25, 3480-3487	9.6	243
138	Hunting for Better Li-Based Electrode Materials via Low Temperature Inorganic Synthesis. <i>Chemistry of Materials</i> , 2010 , 22, 724-739	9.6	209
137	High-Voltage Pyrophosphate Cathodes. <i>Advanced Energy Materials</i> , 2012 , 2, 841-859	21.8	182
136	Polyanionic Insertion Materials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703055	21.8	165
135	Structural, transport, and electrochemical investigation of novel AM ₂ SO ₄ F (A = Na, Li; M = Fe, Co, Ni, Mn) metal fluorosulphates prepared using low temperature synthesis routes. <i>Inorganic Chemistry</i> , 2010 , 49, 7401-13	5.1	151
134	A new polymorph of Na ₂ MnP ₂ O ₇ as a 3.6 V cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4194	13	148
133	Structure and electrochemical properties of novel mixed Li(Fe _{1-x} M _x)SO ₄ F (M = Co, Ni, Mn) phases fabricated by low temperature ionothermal synthesis. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1659		109
132	Kirkite-Type Na ₂ Fe(SO ₄) ₂ ·2H ₂ O as a Novel 3.25 V Insertion Compound for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 1297-1299	9.6	103
131	Magnetic structures of NaFePO ₄ maricite and triphylite polymorphs for sodium-ion batteries. <i>Inorganic Chemistry</i> , 2013 , 52, 8685-93	5.1	86
130	Na _{2.44} Mn _{1.79} (SO ₄) ₃ : a new member of the alluaudite family of insertion compounds for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18564-18571	13	82
129	A layer-structured Na ₂ CoP ₂ O ₇ pyrophosphate cathode for sodium-ion batteries. <i>RSC Advances</i> , 2013 , 3, 3857	3.7	82
128	Sodium-ion battery cathodes Na ₂ FeP ₂ O ₇ and Na ₂ MnP ₂ O ₇ : diffusion behaviour for high rate performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11807-11812	13	74
127	LiZnSO ₄ F made in an ionic liquid: a ceramic electrolyte composite for solid-state lithium batteries. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2526-31	16.4	72
126	Structure, surface morphology and electrochemical properties of brominated activated carbons. <i>Carbon</i> , 2011 , 49, 2538-2548	10.4	67

125	Fe ³⁺ /Fe ²⁺ Redox Couple Approaching 4 V in Li ₂ (Fe _{1-x} Mn _x)P ₂ O ₇ Pyrophosphate Cathodes. <i>Chemistry of Materials</i> , 2012 , 24, 1055-1061	9.6	66
124	Direct and modified ionothermal synthesis of LiMnPO ₄ with tunable morphology for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10143		63
123	An Overview of Mixed Polyanionic Cathode Materials for Sodium-Ion Batteries. <i>Small Methods</i> , 2019 , 3, 1800253	12.8	59
122	Observation of the highest Mn ³⁺ /Mn ²⁺ redox potential of 4.45 V in a Li ₂ MnP ₂ O ₇ pyrophosphate cathode. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24526		57
121	Synthesis of magnesium–aluminium spinel from autoignition of citrate–nitrate gel. <i>Materials Letters</i> , 2004 , 58, 1451-1455	3.3	57
120	Superior potassium-ion hybrid capacitor based on novel P3-type layered K _{0.45} Mn _{0.5} Co _{0.5} O ₂ as high capacity cathode. <i>Chemical Engineering Journal</i> , 2019 , 368, 235-243	14.7	55
119	Electrochemical potassium-ion intercalation in NaCoO: a novel cathode material for potassium-ion batteries. <i>Chemical Communications</i> , 2017 , 53, 8588-8591	5.8	54
118	Polymorphs of LiFeSO ₄ F as cathode materials for lithium ion batteries - a first principle computational study. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8678-82	3.6	54
117	Synthesis and crystal chemistry of the NaMSO ₄ F family (M = Mg, Fe, Co, Cu, Zn). <i>Solid State Sciences</i> , 2012 , 14, 15-20	3.4	52
116	Ionothermal Synthesis of High-Voltage Alluaudite Na _{2+2x} Fe _{2-x} (SO ₄) ₃ Sodium Insertion Compound: Structural, Electronic, and Magnetic Insights. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6982-91	9.5	52
115	Eco-efficient splash combustion synthesis of nanoscale pyrophosphate (Li ₂ FeP ₂ O ₇) positive-electrode using Fe(III) precursors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13455		50
114	An alluaudite Na _{2+2x} Fe _{2-x} (SO ₄) ₃ (x=0.2) derivative phase as insertion host for lithium battery. <i>Electrochemistry Communications</i> , 2015 , 51, 19-22	5.1	49
113	Pursuit of Sustainable Iron-Based Sodium Battery Cathodes: Two Case Studies. <i>Chemistry of Materials</i> , 2016 , 28, 1006-1011	9.6	48
112	t-Na ₂ (VO)P ₂ O ₇ : A 3.8 V Pyrophosphate Insertion Material for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2014 , 1, 1488-1491	4.3	47
111	Sulfate Chemistry for High-Voltage Insertion Materials: Synthetic, Structural and Electrochemical Insights. <i>Israel Journal of Chemistry</i> , 2015 , 55, 537-557	3.4	46
110	Synthesis, Structural, and Transport Properties of Novel Bihydrated Fluorosulphates NaMSO ₄ F·2H ₂ O (M = Fe, Co, and Ni). <i>Chemistry of Materials</i> , 2010 , 22, 4062-4068	9.6	45
109	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8330-8335	16.4	44
108	Fluorosulfate Positive Electrodes for Li-Ion Batteries Made via a Solid-State Dry Process. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1007	3.9	43

107	Electrochemical Redox Mechanism in 3.5 V Li _{2-x} FeP ₂ O ₇ (0 ≤ x ≤ 1) Pyrophosphate Cathode. <i>Chemistry of Materials</i> , 2012 , 24, 2598-2603	9.6	40
106	Magnetic structure and properties of the Na ₂ CoP ₂ O ₇ pyrophosphate cathode for sodium-ion batteries: a supersuperexchange-driven non-collinear antiferromagnet. <i>Inorganic Chemistry</i> , 2013 , 52, 395-401	5.1	39
105	NaCo(SO) as a new member of the alluaudite family of high-voltage sodium battery cathodes. <i>Dalton Transactions</i> , 2016 , 46, 55-63	4.3	39
104	Insight into the limited electrochemical activity of NaVP ₂ O ₇ . <i>RSC Advances</i> , 2015 , 5, 64991-64996	3.7	37
103	Structural and electrochemical diversity in LiFe(1-x)Zn(x)SO ₄ F solid solution: a Fe-based 3.9 V positive-electrode material. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10574-7	16.4	36
102	Bifunctional Electrocatalytic Behavior of Sodium Cobalt Phosphates in Alkaline Solution. <i>ChemElectroChem</i> , 2018 , 5, 153-158	4.3	35
101	General Observation of Fe ³⁺ /Fe ²⁺ Redox Couple Close to 4 V in Partially Substituted Li ₂ FeP ₂ O ₇ Pyrophosphate Solid-Solution Cathodes. <i>Chemistry of Materials</i> , 2013 , 25, 3623-3629	9.6	33
100	Cryptomelane K _{1.33} Mn ₈ O ₁₆ as a cathode for rechargeable aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23981-23988	13	31
99	Structural, magnetic and electrochemical investigation of novel binary Na ₂ (Fe _{1-x} Mny)P ₂ O ₇ (0 ≤ x ≤ 1) pyrophosphate compounds for rechargeable sodium-ion batteries. <i>Solid State Ionics</i> , 2014 , 268, 305-311	3.3	31
98	Energy-savvy solid-state and sonochemical synthesis of lithium sodium titanate as an anode active material for Li-ion batteries. <i>Journal of Power Sources</i> , 2015 , 296, 276-281	8.9	29
97	Na ₂ M ₂ (SO ₄) ₃ (M = Fe, Mn, Co and Ni): towards high-voltage sodium battery applications. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 9658-65	3.6	28
96	High-Throughput Solution Combustion Synthesis of High-Capacity LiFeBO ₃ Cathode. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A3095-A3099	3.9	28
95	Earth-Abundant Alkali Iron Phosphates (AFePO ₄) as Efficient Electrocatalysts for the Oxygen Reduction Reaction in Alkaline Solution. <i>ChemCatChem</i> , 2018 , 10, 1122-1127	5.2	27
94	Lithium metal borate (LiMBO ₃) family of insertion materials for Li-ion batteries: a sneak peak. <i>Ionics</i> , 2015 , 21, 1801-1812	2.7	25
93	Enabling the Electrochemical Activity in Sodium Iron Metaphosphate [NaFe(PO)] Sodium Battery Insertion Material: Structural and Electrochemical Insights. <i>Inorganic Chemistry</i> , 2017 , 56, 5918-5929	5.1	24
92	Neutron diffraction study of the Li-ion battery cathode Li ₂ FeP ₂ O ₇ . <i>Inorganic Chemistry</i> , 2013 , 52, 3334-3341	4.1	24
91	Chemically induced order disorder transition in magnesium aluminium spinel. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 2603-2609	6	24
90	Role of annealing temperature on cation ordering in hydrothermally prepared zinc aluminate (ZnAl ₂ O ₄) spinel. <i>Materials Research Bulletin</i> , 2018 , 98, 219-224	5.1	23

89	Magnetic structure and properties of the rechargeable battery insertion compound Na ₂ FePO ₄ F. <i>Inorganic Chemistry</i> , 2014 , 53, 682-4	5.1	23
88	Demonstration of Co ³⁺ /Co ²⁺ Electrochemical Activity in LiCoBO ₃ Cathode at 4.0 V. <i>ECS Electrochemistry Letters</i> , 2013 , 2, A75-A77		22
87	Fluorophosphates as Efficient Bifunctional Electrocatalysts for Metal-Air Batteries. <i>ACS Catalysis</i> , 2020 , 10, 43-50	13.1	20
86	Electrochemical and Diffusional Investigation of NaFePOF Fluorophosphate Sodium Insertion Material Obtained From Fe Precursor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34961-34969	9.5	19
85	Physical and Electrochemical Properties of Iodine-Modified Activated Carbons. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A467	3.9	19
84	Off-axis electron holography of pseudo-spin-valve thin-film magnetic elements. <i>Journal of Applied Physics</i> , 2005 , 98, 013903	2.5	19
83	Fluorophosphates: Next Generation Cathode Materials for Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001449	21.8	19
82	Na ₂ FePO ₄ F Fluorophosphate as Positive Insertion Material for Aqueous Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2019 , 6, 444-449	4.3	19
81	The physical and electrochemical characterization of vapor phase iodated activated carbons. <i>Electrochimica Acta</i> , 2007 , 52, 7136-7147	6.7	16
80	Mechanistic study of Na-ion diffusion and small polaron formation in K ⁺ inkite Na ₂ Fe(SO ₄) ₂ ·2H ₂ O based cathode materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21726-21739	13	15
79	Enabling the Li-ion conductivity of Li-metal fluorosulphates by ionic liquid grafting. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1743-1751	2.6	15
78	Evolution and propagation of magnetic vortices in chains of Permalloy nanospheres. <i>Journal of Applied Physics</i> , 2006 , 99, 08G103	2.5	15
77	Layered Na ₂ Mn ₃ O ₇ as a 3.1 V Insertion Material for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6719-6724	6.1	15
76	Cubic Sodium Cobalt Metaphosphate [NaCo(PO)] as a Cathode Material for Sodium Ion Batteries. <i>Inorganic Chemistry</i> , 2018 , 57, 6324-6332	5.1	15
75	Cobalt and Nickel Phosphates as Multifunctional Air-Cathodes for Rechargeable Hybrid Sodium-Air Battery Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33811-33818	9.5	14
74	P3-type layered KMnCoO: a novel cathode material for potassium-ion batteries. <i>Chemical Communications</i> , 2020 , 56, 2272-2275	5.8	14
73	Revisiting the alluaudite NaMnFe ₂ (PO ₄) ₃ sodium insertion material: Structural, diffusional and electrochemical insights. <i>Electrochimica Acta</i> , 2018 , 283, 850-857	6.7	14
72	Structural and electrochemical modification of graphitic carbons by vapor-phase iodine-incorporation. <i>Carbon</i> , 2010 , 48, 4178-4189	10.4	13

71	Reactive template synthesis of $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ nanorod cathode for Li-ion batteries: Influence of temperature over structural and electrochemical properties. <i>Electrochimica Acta</i> , 2019 , 317, 398-407	6.7	12
70	Ultra-rapid combustion synthesis of $\text{Na}_2\text{FePO}_4\text{F}$ fluorophosphate host for Li-ion and Na-ion insertion. <i>Ionics</i> , 2018 , 24, 2187-2192	2.7	11
69	Sonochemical Synthesis of Nanostructured Spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Negative Insertion Material for Li-ion and Na-ion Batteries. <i>Electrochimica Acta</i> , 2016 , 222, 898-903	6.7	11
68	Autocombustion Synthesis of Nanostructured $\text{Na}_2\text{Ti}_6\text{O}_{13}$ Negative Insertion Material for Na-Ion Batteries: Electrochemical and Diffusion Mechanism. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1881-A1886	3.9	11
67	Porous, hollow $\text{Li}_{1.2}\text{Mn}_{0.53}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ microspheres as a positive electrode material for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 437-445	2.6	11
66	Compression Strength of Saline Water-exposed Epoxy System Containing Fly Ash Particles. <i>Journal of Reinforced Plastics and Composites</i> , 2005 , 24, 1567-1576	2.9	11
65	Low-Cost Rapid Template-Free Synthesis of Nanoscale Zinc Spinel for Energy Storage and Electrocatalytic Applications. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3211-3219	6.1	10
64	Fabrication, Physical and Electrochemical Investigation of Microporous Carbon Polyiodide Nanocomposites. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A873	3.9	10
63	Alluaudite Battery Cathodes. <i>Small Methods</i> , 2020 , 4, 2000051	12.8	10
62	In-situ deposition of sodium titanate thin film as anode for sodium-ion micro-batteries developed by pulsed laser deposition. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 117-121	9.3	10
61	Tavorite LiFePO_4OH hydroxyphosphate as an anode for aqueous lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 429, 17-21	8.9	9
60	Ultrasonic sonochemical synthesis of $\text{Na}_{0.44}\text{MnO}_2$ insertion material for sodium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 416, 50-55	8.9	9
59	Role of Fuel on Cation Disorder in Magnesium Aluminate (MgAl_2O_4) Spinel Prepared by Combustion Synthesis. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2908-2913	3.8	9
58	NaMnPO_4 polymorphs as efficient bifunctional catalysts for oxygen reduction and oxygen evolution reactions. <i>Chemical Communications</i> , 2019 , 55, 11595-11598	5.8	8
57	Iron-Based Mixed Phosphate $\text{NaFe}(\text{PO})\text{PO}$ Thin Films for Sodium-Ion Microbatteries. <i>ACS Omega</i> , 2020 , 5, 7219-7224	3.9	8
56	LiZnSO_4F Made in an Ionic Liquid: A Ceramic Electrolyte Composite for Solid-State Lithium Batteries. <i>Angewandte Chemie</i> , 2011 , 123, 2574-2579	3.6	8
55	Potassium-ion intercalation in anti-NASICON-type iron molybdate $\text{Fe}_2(\text{MoO}_4)_3$. <i>Electrochemistry Communications</i> , 2020 , 110, 106617	5.1	8
54	Electrochemical insertion of potassium ions in $\text{Na}_4\text{Fe}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$ mixed phosphate. <i>Journal of Power Sources</i> , 2020 , 480, 228794	8.9	8

53	Structural and electrochemical investigation of binary $\text{Na}_2\text{Fe}_{1-x}\text{Zn}_x\text{P}_2\text{O}_7$ (0 ≤ x ≤ 1) pyrophosphate cathodes for sodium-ion batteries. <i>Journal of Solid State Chemistry</i> , 2019 , 277, 329-336	3.3	7
52	Exploration of Iron-Based Mixed Polyanion Cathode Material for Thin-Film Sodium-Ion Batteries. <i>ECS Transactions</i> , 2018 , 85, 227-234	1	7
51	Alluaudite $\text{NaCoFe}_2(\text{PO}_4)_3$ as a 2.9 V Cathode for Sodium-Ion Batteries Exhibiting Bifunctional Electrocatalytic Activity. <i>Chemistry of Materials</i> , 2019 , 31, 7501-7509	9.6	7
50	Sodium manganese fluorosulfate with a triplite structure. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2013 , 69, 584-8	1.8	7
49	The Role of Magnetic Vortex Formation in Chains of Spherical FeNi Nanoparticles: A Micromagnetics Study. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 103002	1.4	7
48	Operando Structural and Electrochemical Investigation of $\text{Li}_{1.5}\text{V}_3\text{O}_8$ Nanorods in Li-ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 852-859	6.1	7
47	Sustainable Aqueous Synthesis and Electrochemical Insights on High-Voltage Sodium Alluaudite Insertion Materials. <i>ECS Transactions</i> , 2017 , 80, 337-342	1	6
46	Designing Novel Sulphate-based Ceramic Materials as Insertion Host Compounds for Secondary Batteries. <i>Transactions of the Indian Ceramic Society</i> , 2015 , 74, 191-194	1.8	6
45	Magnetic structure and properties of centrosymmetric twisted-melilite KCoPO . <i>Dalton Transactions</i> , 2017 , 46, 6409-6416	4.3	5
44	Frontispiz: Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie</i> , 2019 , 131,	3.6	5
43	Electrochemical and diffusional insights of combustion synthesized $\text{SrLi}_2\text{Ti}_6\text{O}_{14}$ negative insertion material for Li-ion Batteries. <i>Journal of Power Sources</i> , 2018 , 385, 122-129	8.9	5
42	Potassium Intercalation into Sodium Metal Oxide and Polyanionic Hosts: Few Case Studies. <i>ECS Transactions</i> , 2018 , 85, 207-214	1	5
41	In Situ Neutron Diffraction Studies of $\text{LiCe}(\text{WO}_4)_2$ Polymorphs: Phase Transition and Structure-Property Correlation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1041-1049	3.8	5
40	Swift Combustion Synthesis of $\text{PbLi}_2\text{Ti}_6\text{O}_{14}$ Anode for Lithium-Ion Batteries: Diffusional and Electrochemical Investigation. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5122-A5130	3.9	5
39	Potassium-ion Intercalation Mechanism in Layered $\text{Na}_2\text{Mn}_3\text{O}_7$. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	5
38	Cobalt tetraphosphate as an efficient bifunctional electrocatalyst for hybrid sodium-air batteries. <i>Nano Energy</i> , 2021 , 89, 106485	17.1	5
37	Preferentially oriented $\text{SrLi}_2\text{Ti}_6\text{O}_{14}$ thin film anode for Li-ion micro-batteries fabricated by pulsed laser deposition. <i>Electrochimica Acta</i> , 2018 , 269, 212-216	6.7	4
36	Electrocatalytic Activity of Some Cobalt Based Sodium Phosphates in Alkaline Solution. <i>MRS Advances</i> , 2018 , 3, 1215-1220	0.7	4

35	Sodium Metal Sulphate Alluaudite Class of High Voltage Battery Insertion Materials. <i>MRS Advances</i> , 2018 , 3, 1209-1214	0.7	4
34	Layered P2-NaxCoO2 and NaxFeO2 as Cathode Materials for Potassium-Ion Batteries. <i>ECS Transactions</i> , 2017 , 80, 357-364	1	4
33	Structural and Electrochemical Diversity in LiFe1/2nSO4F Solid Solution: A Fe-Based 3.9 V Positive-Electrode Material. <i>Angewandte Chemie</i> , 2011 , 123, 10762-10765	3.6	4
32	Micromagnetics of magnetisation reversal mechanism in Permalloy chain-of-sphere structure with magnetic vortices. <i>Computational Materials Science</i> , 2009 , 45, 240-246	3.2	4
31	An Overview of Nanostructured Li-based Thin Film Micro-batteries 2018 , 98,		4
30	Revisiting the layered Na3Fe3(PO4)4 phosphate sodium insertion compound: structure, magnetic and electrochemical study. <i>Materials Research Express</i> , 2020 , 7, 014001	1.7	4
29	Diffusional and electrochemical investigation of combustion synthesized BaLi2Ti6O14 titanate anode for rechargeable batteries. <i>Journal of Materials Research</i> , 2019 , 34, 158-168	2.5	3
28	Operando Sodiation Mechanistic Study of a New Antimony-Based Intermetallic CoSb as a High-Performance Sodium-Ion Battery Anode. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15757-15768	3.8	3
27	Electrocatalytic Oxygen Reduction Reaction Activity of Sodium Metal Phosphate Based Insertion Cathodes. <i>ECS Transactions</i> , 2018 , 85, 1221-1227	1	3
26	Metal fluorophosphate polyanionic insertion hosts as efficient bifunctional electrocatalysts for oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18651-18658	13	3
25	Perovskite lead-based oxide anodes for rechargeable batteries. <i>Electrochemistry Communications</i> , 2021 , 127, 107038	5.1	3
24	Performance Evaluation of the LiFePO4OH Cathode for Stationary Storage Applications Using a Reduced-Order Electrochemical Model. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1021-1032	6.1	3
23	Narsarsukite Na2TiOSi4O10 as a Low Voltage Silicate Anode for Rechargeable Li-Ion and Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2350-2355	6.1	2
22	The design of zinc-substituted cobalt (pyro)phosphates as efficient bifunctional electrocatalysts for zinc-air batteries. <i>Chemical Communications</i> , 2020 , 56, 8400-8403	5.8	2
21	Structure and Electrochemistry of Carbon-Bromine Nanocomposite Electrodes for Electrochemical Energy Storage. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1127, 1		2
20	Cobalt Metaphosphates as Economic Bifunctional Electrocatalysts for Hybrid Sodium-Air Batteries. <i>Inorganic Chemistry</i> , 2021 , 60, 11974-11983	5.1	2
19	Polymorphism and Temperature-Induced Phase Transitions of NaCoPO. <i>Inorganic Chemistry</i> , 2019 , 58, 16823-16830	5.1	2
18	Marinite Li2Ni(SO4)2 as a New Member of the Bisulfate Family of High-Voltage Lithium Battery Cathodes. <i>Chemistry of Materials</i> , 2021 , 33, 6108-6119	9.6	2

17	Alluaudite class of high voltage sodium insertion materials: An interplay of polymorphism and magnetism 2017 ,		1
16	Magnetisation reversal in cylindrical nickel nanobars involving magnetic vortex structure: A micromagnetic study. <i>Physica B: Condensed Matter</i> , 2011 , 406, 1336-1340	2.8	1
15	Activated Carbons for High Power Energy Storage: Below the Surface of Non-Faradaic Reactions. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 973, 1		1
14	Magnetic structure of fluorophosphate Na ₂ MnPO ₄ F sodium battery material. <i>Journal of Solid State Chemistry</i> , 2022 , 308, 122926	3.3	1
13	An overview of hydroxy-based polyanionic cathode insertion materials for metal-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18283-18299	3.6	1
12	Crystal and Magnetic Structures of Monoclinic FeOHSO. <i>Inorganic Chemistry</i> , 2021 , 60, 15128-15130	5.1	0
11	Manganese-Based Tunnel-Type Cathode Materials for Secondary Li-Ion and K-Ion Batteries.. <i>Inorganic Chemistry</i> , 2022 , 61, 3959-3969	5.1	0
10	Aqueous spray-drying synthesis of alluaudite Na _{2+2x} Fe _{2-2x} (SO ₄) ₃ sodium insertion material: studies of electrochemical activity, thermodynamic stability, and humidity-induced phase transition. <i>Journal of Solid State Electrochemistry</i> , 1	2.6	0
9	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie</i> , 2019 , 131, 8418	3.6	
8	Stability of Larger Ferromagnetic Chain-of-sphere Nanostructure Comprising Magnetic Vortices. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1071, 1		
7	Microporous Carbon-halide Nanocomposites Electrodes for Symmetric and Asymmetric Capacitor. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1100, 6041		
6	Carbon-Halide Nanocomposites for Asymmetric Hybrid Supercapacitors. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1056, 1		
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