Prabeer Barpanda

List of Publications by Year
in descending order

148 papers	6,247 citations	70961 41 h-index	71532 76 g-index
164 all docs	164 docs citations	164 times ranked	5040 citing authors

#	Article	IF	Citations
1	A 3.8-V earth-abundant sodium battery electrode. Nature Communications, 2014, 5, 4358.	5.8	676
2	Sodium iron pyrophosphate: A novel 3.0 V iron-based cathode for sodium-ion batteries. Electrochemistry Communications, 2012, 24, 116-119.	2.3	313
3	A 3.90 V iron-based fluorosulphate material for lithium-ion batteries crystallizing in the triplite structure. Nature Materials, 2011, 10, 772-779.	13.3	301
4	Na₂FeP₂O₇: A Safe Cathode for Rechargeable Sodium-ion Batteries. Chemistry of Materials, 2013, 25, 3480-3487.	3.2	291
5	Polyanionic Insertion Materials for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703055.	10.2	267
6	Hunting for Better Li-Based Electrode Materials via Low Temperature Inorganic Synthesis. Chemistry of Materials, 2010, 22, 724-739.	3.2	224
7	Highâ€Voltage Pyrophosphate Cathodes. Advanced Energy Materials, 2012, 2, 841-859.	10.2	208
8	A new polymorph of Na2MnP2O7 as a 3.6 V cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 4194.	5.2	175
9	Structural, Transport, and Electrochemical Investigation of Novel AMSO₄F (A = Na, Li; M =) Tj ETQq1 1 0.784314 rgBT /Ove Chemistry, 2010, 49, 7401-7413.	1.9	166
10	KrÃ¶hnkite-Type Na₂Fe(SO₄)₂Â·2H₂O as a Novel 3.25 V Insertion Compound for Na-Ion Batteries. Chemistry of Materials, 2014, 26, 1297-1299.	3.2	128
11	Structure and electrochemical properties of novel mixed Li(Fe1â^'xMx)SO4F (M = Co, Ni, Mn) phases fabricated by low temperature ionothermal synthesis. Journal of Materials Chemistry, 2010, 20, 1659.	6.7	123
12	Magnetic Structures of NaFePO₄ Maricite and Triphylite Polymorphs for Sodium-Ion Batteries. Inorganic Chemistry, 2013, 52, 8685-8693.	1.9	121
13	A layer-structured Na2CoP2O7 pyrophosphate cathode for sodium-ion batteries. RSC Advances, 2013, 3, 3857.	1.7	104
14	Na_{2.44}Mn_{1.79}(SO₄)₃: a new member of the alluaudite family of insertion compounds for sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 18564-18571.	5.2	99
15	Sodium-ion battery cathodes Na₂FeP₂O₇ and Na₂MnP₂O₇: diffusion behaviour for high rate performance. Journal of Materials Chemistry A, 2014, 2, 11807-11812.	5.2	92
16	An Overview of Mixed Polyanionic Cathode Materials for Sodiumâ€Ion Batteries. Small Methods, 2019, 3, 1800253.	4.6	87
17	Structure, surface morphology and electrochemical properties of brominated activated carbons. Carbon, 2011, 49, 2538-2548.	5.4	84
18	Superior potassium-ion hybrid capacitor based on novel P3-type layered K0.45Mn0.5Co0.5O2 as high capacity cathode. Chemical Engineering Journal, 2019, 368, 235-243.	6.6	80

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19	LiZnSO₄F Made in an Ionic Liquid: A Ceramic Electrolyte Composite for Solidâ€State Lithium Batteries. Angewandte Chemie - International Edition, 2011, 50, 2526-2531.	7.2	79
20	Fe³⁺/Fe²⁺ Redox Couple Approaching 4 V in Li_{2â€“x}(Fe_{1â€“y}Mn_y)P₂O₇ Pyrophosphate Cathodes. Chemistry of Materials, 2012, 24, 1055-1061.	3.2	76
21	Direct and modified ionothermal synthesis of LiMnPO4 with tunable morphology for rechargeable Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 10143.	6.7	67
22	Ionothermal Synthesis of High-Voltage Alluaudite Na_{2+2x}Fe_{2-x}(SO₄)₃ Sodium Insertion Compound: Structural, Electronic, and Magnetic Insights. ACS Applied Materials & Interfaces, 2016, 8, 6982-6991.	4.0	66
23	Pursuit of Sustainable Iron-Based Sodium Battery Cathodes: Two Case Studies. Chemistry of Materials, 2016, 28, 1006-1011.	3.2	64
24	Synthesis of magnesiumâ€“aluminium spinel from autoignition of citrateâ€“nitrate gel. Materials Letters, 2004, 58, 1451-1455.	1.3	61
25	Observation of the highest Mn3+/Mn2+ redox potential of 4.45 V in a Li2MnP2O7 pyrophosphate cathode. Journal of Materials Chemistry, 2012, 22, 24526.	6.7	60
26	Synthesis and crystal chemistry of the NaMSO4F family (M=Mg, Fe, Co, Cu, Zn). Solid State Sciences, 2012, 14, 15-20.	1.5	60
27	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. Angewandte Chemie - International Edition, 2019, 58, 8330-8335.	7.2	60
28	Electrochemical potassium-ion intercalation in Na_xCoO₂: a novel cathode material for potassium-ion batteries. Chemical Communications, 2017, 53, 8588-8591.	2.2	58
29	Polymorphs of LiFeSO4F as cathode materials for lithium ion batteries â€“ a first principle computational study. Physical Chemistry Chemical Physics, 2012, 14, 8678.	1.3	57
30	tâ€Na₂(VO)P₂O₇: A 3.8â€…V Pyrophosphate Insertion Material for Sodiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 1488-1491.	1.7	55
31	Eco-efficient splash combustion synthesis of nanoscale pyrophosphate (Li2FeP2O7) positive-electrode using Fe(iii) precursors. Journal of Materials Chemistry, 2012, 22, 13455.	6.7	54
32	Sulfate Chemistry for Highâ€Voltage Insertion Materials: Synthetic, Structural and Electrochemical Insights. Israel Journal of Chemistry, 2015, 55, 537-557.	1.0	54
33	An alluaudite Na2+2Fe2â€™(SO4)3(x= 0.2) derivative phase as insertion host for lithium battery. Electrochemistry Communications, 2015, 51, 19-22.	2.3	52
34	Na_{2.32}Co_{1.84}(SO₄)₃ as a new member of the alluaudite family of high-voltage sodium battery cathodes. Dalton Transactions, 2017, 46, 55-63.	1.6	52
35	Magnetic Structure and Properties of the Na₂CoP₂O₇ Pyrophosphate Cathode for Sodium-Ion Batteries: A Supersuperexchange-Driven Non-Collinear Antiferromagnet. Inorganic Chemistry, 2013, 52, 395-401.	1.9	51
36	Fluorophosphates: Next Generation Cathode Materials for Rechargeable Batteries. Advanced Energy Materials, 2020, 10, 2001449.	10.2	50

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37	Synthesis, Structural, and Transport Properties of Novel Bihydrated Fluorosulphates NaMSO₄FÂ·2H₂O (M = Fe, Co, and Ni). Chemistry of Materials, 2010, 22, 4062-4068.	3.2	49
38	Insight into the limited electrochemical activity of NaVP₂O₇. RSC Advances, 2015, 5, 64991-64996.	1.7	48
39	Fluorosulfate Positive Electrodes for Li-Ion Batteries Made via a Solid-State Dry Process. Journal of the Electrochemical Society, 2010, 157, A1007.	1.3	46
40	Cryptomelane K_{1.33}Mn₈O₁₆ as a cathode for rechargeable aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2019, 7, 23981-23988.	5.2	43
41	General Observation of Fe³⁺/Fe²⁺ Redox Couple Close to 4 V in Partially Substituted Li₂FeP₂O₇ Pyrophosphate Solid-Solution Cathodes. Chemistry of Materials, 2013, 25, 3623-3629.	3.2	42
42	Bifunctional Electrocatalytic Behavior of Sodium Cobalt Phosphates in Alkaline Solution. ChemElectroChem, 2018, 5, 153-158.	1.7	42
43	Role of annealing temperature on cation ordering in hydrothermally prepared zinc aluminate (ZnAl2O4) spinel. Materials Research Bulletin, 2018, 98, 219-224.	2.7	42
44	Electrochemical Redox Mechanism in 3.5 V Li_{2-x}FeP₂O₇ (0 â‰) Tj ETQq0 0 0 rgBT /Overl	3.2	41
45	Na₂M₂(SO₄)₃ (M = Fe, Mn, Co and Ni): towards high-voltage sodium battery applications. Physical Chemistry Chemical Physics, 2016, 18, 9658-9665.	1.3	40
46	Structural and Electrochemical Diversity in LiFe_{1â^'Î´}Zn_{Î´}SO₄F Solid Solution: A Feâ€Based 3.9â€...V Positiveâ€Electrode Material. Angewandte Chemie - International Edition, 2011, 50, 10574-10577.	7.2	39
47	Structural, magnetic and electrochemical investigation of novel binary Na2â^'x(Fe1â^'yMny)P2O7 (0 â‰ y â‰) Tj ETQq1 1 0.784314 rg 305-311.	1.3	37
48	Chemically induced order disorder transition in magnesium aluminium spinel. Journal of the European Ceramic Society, 2006, 26, 2603-2609.	2.8	32
49	High-Throughput Solution Combustion Synthesis of High-Capacity LiFeBO₃Cathode. Journal of the Electrochemical Society, 2013, 160, A3095-A3099.	1.3	32
50	Earthâ€Abundant Alkali Iron Phosphates (AFePO₄) as Efficient Electrocatalysts for the Oxygen Reduction Reaction in Alkaline Solution. ChemCatChem, 2018, 10, 1122-1127.	1.8	32
51	Neutron Diffraction Study of the Li-Ion Battery Cathode Li₂FeP₂O₇. Inorganic Chemistry, 2013, 52, 3334-3341.	1.9	31
52	Magnetic Structure and Properties of the Rechargeable Battery Insertion Compound Na₂FePO₄F. Inorganic Chemistry, 2014, 53, 682-684.	1.9	30
53	Energy-savvy solid-state and sonochemical synthesis of lithium sodium titanate as an anode active material for Li-ion batteries. Journal of Power Sources, 2015, 296, 276-281.	4.0	30
54	Lithium metal borate (LiMBO3) family of insertion materials for Li-ion batteries: a sneak peak. Ionics, 2015, 21, 1801-1812.	1.2	30

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55	Enabling the Electrochemical Activity in Sodium Iron Metaphosphate [NaFe(PO₃)₃] Sodium Battery Insertion Material: Structural and Electrochemical Insights. Inorganic Chemistry, 2017, 56, 5918-5929.	1.9	29
56	Fluorophosphates as Efficient Bifunctional Electrocatalysts for Metalâ€“Air Batteries. ACS Catalysis, 2020, 10, 43-50.	5.5	29
57	Electrochemical and Diffusional Investigation of Na₂Fe^{II}PO₄F Fluorophosphate Sodium Insertion Material Obtained from Fe^{III} Precursor. ACS Applied Materials & Interfaces, 2017, 9, 34961-34969.	4.0	28
58	Reactive template synthesis of Li1.2Mn0.54Ni0.13Co0.13O2 nanorod cathode for Li-ion batteries: Influence of temperature over structural and electrochemical properties. Electrochimica Acta, 2019, 317, 398-407.	2.6	27
59	Na₂FePO₄F Fluorophosphate as Positive Insertion Material for Aqueous Sodiumâ€Ion Batteries. ChemElectroChem, 2019, 6, 444-449.	1.7	27
60	P3-type layered K_{0.48}Mn_{0.4}Co_{0.6}O₂: a novel cathode material for potassium-ion batteries. Chemical Communications, 2020, 56, 2272-2275.	2.2	27
61	Layered Na₂Mn₃O₇ as a 3.1 V Insertion Material for Li-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 6719-6724.	2.5	26
62	Demonstration of Co3+/Co2+ Electrochemical Activity in LiCoBO3 Cathode at 4.0 V. ECS Electrochemistry Letters, 2013, 2, A75-A77.	1.9	24
63	Off-axis electron holography of pseudo-spin-valve thin-film magnetic elements. Journal of Applied Physics, 2005, 98, 013903.	1.1	22
64	Alluaudite Battery Cathodes. Small Methods, 2020, 4, 2000051.	4.6	22
65	Physical and Electrochemical Properties of Iodine-Modified Activated Carbons. Journal of the Electrochemical Society, 2007, 154, A467.	1.3	21
66	The physical and electrochemical characterization of vapor phase iodated activated carbons. Electrochimica Acta, 2007, 52, 7136-7147.	2.6	20
67	Cubic Sodium Cobalt Metaphosphate [NaCo(PO₃)₃] as a Cathode Material for Sodium Ion Batteries. Inorganic Chemistry, 2018, 57, 6324-6332.	1.9	19
68	Revisiting the alluaudite NaMnFe2(PO4)3 sodium insertion material: Structural, diffusional and electrochemical insights. Electrochimica Acta, 2018, 283, 850-857.	2.6	19
69	Cobalt and Nickel Phosphates as Multifunctional Air-Cathodes for Rechargeable Hybrid Sodium-Air Battery Applications. ACS Applied Materials & Interfaces, 2019, 11, 33811-33818.	4.0	19
70	Iron-Based Mixed Phosphate Na₄Fe₃(PO₄)₂P₂O₇ Thin Films for Sodium-Ion Microbatteries. ACS Omega, 2020, 5, 7219-7224.	1.6	19
71	Structural and electrochemical modification of graphitic carbons by vapor-phase iodine-incorporation. Carbon, 2010, 48, 4178-4189.	5.4	18
72	Mechanistic study of Na-ion diffusion and small polaron formation in KrÃ¶hnkite Na₂Fe(SO₄)₂Â·2H₂O based cathode materials. Journal of Materials Chemistry A, 2017, 5, 21726-21739.	5.2	18

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73	Tavorite LiFePO4OH hydroxyphosphate as an anode for aqueous lithium-ion batteries. Journal of Power Sources, 2019, 429, 17-21.	4.0	18
74	Electrochemical insertion of potassium ions in Na4Fe3(PO4)2P2O7 mixed phosphate. Journal of Power Sources, 2020, 480, 228794.	4.0	18
75	Enabling the Li-ion conductivity of Li-metal fluorosulphates by ionic liquid grafting. Journal of Solid State Electrochemistry, 2012, 16, 1743-1751.	1.2	17
76	Low-Cost Rapid Template-Free Synthesis of Nanoscale Zinc Spinels for Energy Storage and Electrocatalytic Applications. ACS Applied Energy Materials, 2019, 2, 3211-3219.	2.5	17
77	Role of Fuel on Cation Disorder in Magnesium Aluminate (MgAl₂O₄) Spinel Prepared by Combustion Synthesis. Journal of the American Ceramic Society, 2015, 98, 2908-2913.	1.9	16
78	Evolution and propagation of magnetic vortices in chains of Permalloy nanospheres. Journal of Applied Physics, 2006, 99, 08G103.	1.1	15
79	Ultra-rapid combustion synthesis of Na2FePO4F fluorophosphate host for Li-ion and Na-ion insertion. Ionics, 2018, 24, 2187-2192.	1.2	15
80	Compression Strength of Saline Water-exposed Epoxy System Containing Fly Ash Particles. Journal of Reinforced Plastics and Composites, 2005, 24, 1567-1576.	1.6	14
81	Sonochemical Synthesis of Nanostructured Spinel Li4Ti5O12 Negative Insertion Material for Li-ion and Na-ion Batteries. Electrochimica Acta, 2016, 222, 898-903.	2.6	14
82	In-situ deposition of sodium titanate thin film as anode for sodium-ion micro-batteries developed by pulsed laser deposition. Journal of Colloid and Interface Science, 2018, 514, 117-121.	5.0	13
83	Autocombustion Synthesis of Nanostructured Na₂Ti₆O₁₃Negative Insertion Material for Na-Ion Batteries: Electrochemical and Diffusion Mechanism. Journal of the Electrochemical Society, 2017, 164, A1881-A1886.	1.3	12
84	Porous, hollow Li1.2Mn0.53Ni0.13Co0.13O2 microspheres as a positive electrode material for Li-ion batteries. Journal of Solid State Electrochemistry, 2017, 21, 437-445.	1.2	12
85	Alluaudite NaCoFe₂(PO₄)₃ as a 2.9 V Cathode for Sodium-Ion Batteries Exhibiting Bifunctional Electrocatalytic Activity. Chemistry of Materials, 2019, 31, 7501-7509.	3.2	12
86	Na₂MnP₂O₇ polymorphs as efficient bifunctional catalysts for oxygen reduction and oxygen evolution reactions. Chemical Communications, 2019, 55, 11595-11598.	2.2	12
87	Structural and electrochemical investigation of binary Na2Fe1-xZnxP2O7 (0 â‰¤ x â‰¤ 1) pyrophosphate cathodes for sodium-ion batteries. Journal of Solid State Chemistry, 2019, 277, 329-336.	1.4	12
88	Potassium-ion intercalation in anti-NASICON-type iron molybdate Fe2(MoO4)3. Electrochemistry Communications, 2020, 110, 106617.	2.3	12
89	Frontispiz: Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. Angewandte Chemie, 2019, 131, .	1.6	11
90	Ultrasonic sonochemical synthesis of Na0.44MnO2 insertion material for sodium-ion batteries. Journal of Power Sources, 2019, 416, 50-55.	4.0	11

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91	Operando Sodiation Mechanistic Study of a New Antimony-Based Intermetallic CoSb as a High-Performance Sodium-Ion Battery Anode. Journal of Physical Chemistry C, 2020, 124, 15757-15768.	1.5	11
92	Cobalt tetraphosphate as an efficient bifunctional electrocatalyst for hybrid sodium-air batteries. Nano Energy, 2021, 89, 106485.	8.2	11
93	Fabrication, Physical and Electrochemical Investigation of Microporous Carbon Polyiodide Nanocomposites. Journal of the Electrochemical Society, 2009, 156, A873.	1.3	10
94	Magnetic structure and properties of centrosymmetric twisted-melilite K2CoP2O7. Dalton Transactions, 2017, 46, 6409-6416.	1.6	10
95	Sustainable Aqueous Synthesis and Electrochemical Insights on High-Voltage Sodium Alluaudite Insertion Materials. ECS Transactions, 2017, 80, 337-342.	0.3	10
96	Perovskite lead-based oxide anodes for rechargeable batteries. Electrochemistry Communications, 2021, 127, 107038.	2.3	10
97	Structural change induced by electrochemical sodium extraction from layered Oâ€²3-NaMnO₂. Journal of Materials Chemistry A, 2021, 9, 26810-26819.	5.2	10
98	Sodium manganese fluorosulfate with a triplite structure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 584-588.	0.5	9
99	In Situ Neutron Diffraction Studies of LiCe(WO₄)₂ Polymorphs: Phase Transition and Structureâ€“Property Correlation. Journal of Physical Chemistry C, 2019, 123, 1041-1049.	1.5	9
100	Potassium Cobalt Pyrophosphate as a Nonprecious Bifunctional Electrocatalyst for Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2022, 14, 8992-9001.	4.0	9
101	The Role of Magnetic Vortex Formation in Chains of Spherical FeNi Nanoparticles: A Micromagnetics Study. Japanese Journal of Applied Physics, 2009, 48, 103002.	0.8	7
102	Designing Novel Sulphate-based Ceramic Materials as Insertion Host Compounds for Secondary Batteries. Transactions of the Indian Ceramic Society, 2015, 74, 191-194.	0.4	7
103	Sodium Metal Sulphate Alluaudite Class of High Voltage Battery Insertion Materials. MRS Advances, 2018, 3, 1209-1214.	0.5	7
104	Exploration of Iron-Based Mixed Polyanion Cathode Material for Thin-Film Sodium-Ion Batteries. ECS Transactions, 2018, 85, 227-234.	0.3	7
105	Operando Structural and Electrochemical Investigation of Li_{1.5}V₃O₈ Nanorods in Li-ion Batteries. ACS Applied Energy Materials, 2019, 2, 852-859.	2.5	7
106	Metal fluorophosphate polyanionic insertion hosts as efficient bifunctional electrocatalysts for oxygen evolution and reduction reactions. Journal of Materials Chemistry A, 2020, 8, 18651-18658.	5.2	7
107	Marinite Li₂Ni(SO₄)₂ as a New Member of the Bisulfate Family of High-Voltage Lithium Battery Cathodes. Chemistry of Materials, 2021, 33, 6108-6119.	3.2	7
108	An Overview of Nanostructured Li-based Thin Film Micro-batteries. Proceedings of the Indian National Science Academy, 2018, 98, .	0.5	7

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109	Biowaste-Derived Highly Porous N-Doped Carbon as a Low-Cost Bifunctional Electrocatalyst for Hybrid Sodiumâ€“Air Batteries. ACS Sustainable Chemistry and Engineering, 2022, 10, 9077-9086.	3.2	7
110	Layered P2-Na_xCoO₂and Na_xFeO₂as Cathode Materials for Potassium-Ion Batteries. ECS Transactions, 2017, 80, 357-364.	0.3	6
111	Preferentially oriented SrLi2Ti6O14 thin film anode for Li-ion micro-batteries fabricated by pulsed laser deposition. Electrochimica Acta, 2018, 269, 212-216.	2.6	6
112	Electrochemical and diffusional insights of combustion synthesized SrLi 2 Ti 6 O 14 negative insertion material for Li-ion Batteries. Journal of Power Sources, 2018, 385, 122-129.	4.0	6
113	Swift Combustion Synthesis of PbLi₂Ti₆O₁₄ Anode for Lithium-Ion Batteries: Diffusional and Electrochemical Investigation. Journal of the Electrochemical Society, 2019, 166, A5122-A5130.	1.3	6
114	Revisiting the layered Na3Fe3(PO4)4 phosphate sodium insertion compound: structure, magnetic and electrochemical study. Materials Research Express, 2020, 7, 014001.	0.8	6
115	The design of zinc-substituted cobalt (pyro)phosphates as efficient bifunctional electrocatalysts for zincâ€“air batteries. Chemical Communications, 2020, 56, 8400-8403.	2.2	6
116	Performance Evaluation of the LiFePO4OH Cathode for Stationary Storage Applications Using a Reduced-Order Electrochemical Model. ACS Applied Energy Materials, 2021, 4, 1021-1032.	2.5	6
117	Potassium-ion Intercalation Mechanism in Layered Na2Mn3O7. ACS Applied Energy Materials, 0, , .	2.5	5
118	Potassium Intercalation into Sodium Metal Oxide and Polyanionic Hosts: Few Case Studies. ECS Transactions, 2018, 85, 207-214.	0.3	5
119	Cobalt Metaphosphates as Economic Bifunctional Electrocatalysts for Hybrid Sodiumâ€“Air Batteries. Inorganic Chemistry, 2021, 60, 11974-11983.	1.9	5
120	Aqueous spray-drying synthesis of alluaudite Na2+2xFe2â^'x(SO4)3 sodium insertion material: studies of electrochemical activity, thermodynamic stability, and humidity-induced phase transition. Journal of Solid State Electrochemistry, 2022, 26, 1941-1950.	1.2	5
121	Micromagnetics of magnetisation reversal mechanism in Permalloy chain-of-sphere structure with magnetic vortices. Computational Materials Science, 2009, 45, 240-246.	1.4	4
122	Electrocatalytic Activity of Some Cobalt Based Sodium Phosphates in Alkaline Solution. MRS Advances, 2018, 3, 1215-1220.	0.5	4
123	Electrocatalytic Oxygen Reduction Reaction Activity of Sodium Metal Phosphate Based Insertion Cathodes. ECS Transactions, 2018, 85, 1221-1227.	0.3	3
124	Diffusional and electrochemical investigation of combustion synthesized BaLi2Ti6O14 titanate anode for rechargeable batteries. Journal of Materials Research, 2019, 34, 158-168.	1.2	3
125	Polymorphism and Temperature-Induced Phase Transitions of Na₂CoP₂O₇. Inorganic Chemistry, 2019, 58, 16823-16830.	1.9	3
126	An overview of hydroxy-based polyanionic cathode insertion materials for metal-ion batteries. Physical Chemistry Chemical Physics, 2021, 23, 18283-18299.	1.3	3

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127	Manganese-Based Tunnel-Type Cathode Materials for Secondary Li-Ion and K-Ion Batteries. Inorganic Chemistry, 2022, 61, 3959-3969.	1.9	3
128	Structure and Electrochemistry of Carbon-Bromine Nanocomposite Electrodes for Electrochemical Energy Storage. Materials Research Society Symposia Proceedings, 2008, 1127, 1.	0.1	2
129	Synthesis of New Fluorosulphate Materials Using Different Approaches. ECS Transactions, 2011, 35, 57-63.	0.3	2
130	Alluaudite class of high voltage sodium insertion materials: An interplay of polymorphism and magnetism. AIP Conference Proceedings, 2017, , .	0.3	2
131	Narsarsukite Na2TiOSi4O10 as a Low Voltage Silicate Anode for Rechargeable Li-Ion and Na-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 2350-2355.	2.5	2
132	Magnetic structure of fluorophosphate Na2MnPO4F sodium battery material. Journal of Solid State Chemistry, 2022, 308, 122926.	1.4	2
133	Facile synthesis and phase stability of Cu-based Na₂Cu(SO₄)₂Â·xH₂O (x = 0â€“2) sulfate minerals as conversion type battery electrodes. Dalton Transactions, 2022, 51, 11169-11179.	1.6	2
134	Activated Carbons for High Power Energy Storage: Below the Surface of Non-Faradaic Reactions. Materials Research Society Symposia Proceedings, 2006, 973, 1.	0.1	1
135	Magnetisation reversal in cylindrical nickel nanobars involving magnetic vortex structure: A micromagnetic study. Physica B: Condensed Matter, 2011, 406, 1336-1340.	1.3	1
136	Electrocatalytic activity of co-redox center in phosphate-based oxyanionic sodium battery materials. AIP Conference Proceedings, 2019, , .	0.3	1
137	Phase transformation in Na-Fe-S-O quaternary sulfate cathode materials. AIP Conference Proceedings, 2019, , .	0.3	1
138	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. Angewandte Chemie, 2019, 131, 8418-8423.	1.6	1
139	Crystal and Magnetic Structures of Monoclinic FeOHSO4. Inorganic Chemistry, 2021, 60, 15128-15130.	1.9	1
140	Carbon-Halide Nanocomposites for Asymmetric Hybrid Supercapacitors. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	0
141	Stability of Larger Ferromagnetic Chain-of-sphere Nanostructure Comprising Magnetic Vortices. Materials Research Society Symposia Proceedings, 2008, 1071, 1.	0.1	0
142	Microporous Carbon-halide Nanocomposites Electrodes for Symmetric and Asymmetric Capacitor. Materials Research Society Symposia Proceedings, 2008, 1100, 6041.	0.1	0
143	Synthesis of Fluorosulphates Positive Electrodes for Li-ion Batteries via a Solid-State Dry Process. ECS Meeting Abstracts, 2010, , .	0.0	0
144	Phase transformation and functional behavior of Na2MP2O7 (M = Mn, Co) pyrophosphates. AIP Conference Proceedings, 2019, , .	0.3	0

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145	Frontispiece: Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. Angewandte Chemie - International Edition, 2019, 58, .	7.2	0
146	In Situ X-Ray Diffraction and Alkali Ion (Aâ€‰=â€‰Li, Na, K) Intercalation Behavior of Na2FeP2O7 Pyrophosphate. , 2021, , 125-131.		0
147	Combustion Synthesized MLi2Ti6O14 (MÂ=ÂSr,ÂBa,ÂPb) Titanate Anodes for Lithium-Ion Batteries. , 2021, , 9-17.		0
148	Reversible Sodium and Potassium-Ion Intercalation in Na0.44MnO2. , 2021, , 27-33.		0