

# Prabeer Barpanda

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7613398/prabeer-barpanda-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

142  
papers

5,043  
citations

38  
h-index

68  
g-index

164  
ext. papers

5,632  
ext. citations

6.7  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
142	Magnetic structure of fluorophosphate Na <sub>2</sub> MnPO <sub>4</sub> F sodium battery material. <i>Journal of Solid State Chemistry</i> , <b>2022</b> , 308, 122926	3.3	1
141	Manganese-Based Tunnel-Type Cathode Materials for Secondary Li-Ion and K-Ion Batteries.. <i>Inorganic Chemistry</i> , <b>2022</b> , 61, 3959-3969	5.1	0
140	Layered Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub> : A Robust Cathode for Na, K, and Li-Ion Batteries <b>2021</b> , 81-87		
139	In Situ X-Ray Diffraction and Alkali Ion (A = Li, Na, K) Intercalation Behavior of Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> Pyrophosphate <b>2021</b> , 125-131		
138	Combustion Synthesized MLi <sub>2</sub> Ti <sub>6</sub> O <sub>14</sub> (M = Sr, Ba, Pb) Titanate Anodes for Lithium-Ion Batteries <b>2021</b> , 9-17		
137	Reversible Sodium and Potassium-Ion Intercalation in Na <sub>0.44</sub> MnO <sub>2</sub> <b>2021</b> , 27-33		
136	Cobalt Phosphate-Based Insertion Material as a Multifunctional Cathode for Rechargeable Hybrid Sodium-Air Batteries <b>2021</b> , 35-41		
135	Perovskite lead-based oxide anodes for rechargeable batteries. <i>Electrochemistry Communications</i> , <b>2021</b> , 127, 107038	5.1	3
134	Cobalt Metaphosphates as Economic Bifunctional Electrocatalysts for Hybrid Sodium-Air Batteries. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 11974-11983	5.1	2
133	Performance Evaluation of the LiFePO <sub>4</sub> OH Cathode for Stationary Storage Applications Using a Reduced-Order Electrochemical Model. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1021-1032	6.1	3
132	Marinite Li <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub> as a New Member of the Bisulfate Family of High-Voltage Lithium Battery Cathodes. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6108-6119	9.6	2
131	Crystal and Magnetic Structures of Monoclinic FeOHSO. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15128-15130	5.1	0
130	Cobalt tetraphosphate as an efficient bifunctional electrocatalyst for hybrid sodium-air batteries. <i>Nano Energy</i> , <b>2021</b> , 89, 106485	17.1	5
129	An overview of hydroxy-based polyanionic cathode insertion materials for metal-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 18283-18299	3.6	1
128	The design of zinc-substituted cobalt (pyro)phosphates as efficient bifunctional electrocatalysts for zinc-air batteries. <i>Chemical Communications</i> , <b>2020</b> , 56, 8400-8403	5.8	2
127	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> , <b>2020</b> , 124, 15757-15768	3.8	3
126	Iron-Based Mixed Phosphate NaFe(PO) <sub>2</sub> PO Thin Films for Sodium-Ion Microbatteries. <i>ACS Omega</i> , <b>2020</b> , 5, 7219-7224	3.9	8

125	Revisiting the layered Na <sub>3</sub> Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>4</sub> phosphate sodium insertion compound: structure, magnetic and electrochemical study. <i>Materials Research Express</i> , <b>2020</b> , 7, 014001	1.7	4
124	Fluorophosphates as Efficient Bifunctional Electrocatalysts for Metal-Air Batteries. <i>ACS Catalysis</i> , <b>2020</b> , 10, 43-50	13.1	20
123	P3-type layered KMnCoO: a novel cathode material for potassium-ion batteries. <i>Chemical Communications</i> , <b>2020</b> , 56, 2272-2275	5.8	14
122	Potassium-ion intercalation in anti-NASICON-type iron molybdate Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> . <i>Electrochemistry Communications</i> , <b>2020</b> , 110, 106617	5.1	8
121	Electrochemical insertion of potassium ions in Na <sub>4</sub> Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> P <sub>2</sub> O <sub>7</sub> mixed phosphate. <i>Journal of Power Sources</i> , <b>2020</b> , 480, 228794	8.9	8
120	Fluorophosphates: Next Generation Cathode Materials for Rechargeable Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001449	21.8	19
119	Metal fluorophosphate polyanionic insertion hosts as efficient bifunctional electrocatalysts for oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18651-18658	13	3
118	Alluaudite Battery Cathodes. <i>Small Methods</i> , <b>2020</b> , 4, 2000051	12.8	10
117	NaMnPO polymorphs as efficient bifunctional catalysts for oxygen reduction and oxygen evolution reactions. <i>Chemical Communications</i> , <b>2019</b> , 55, 11595-11598	5.8	8
116	Narsarsukite Na <sub>2</sub> TiO <sub>4</sub> Si <sub>4</sub> O <sub>10</sub> as a Low Voltage Silicate Anode for Rechargeable Li-Ion and Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2350-2355	6.1	2
115	Diffusional and electrochemical investigation of combustion synthesized BaLi <sub>2</sub> Ti <sub>6</sub> O <sub>14</sub> titanate anode for rechargeable batteries. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 158-168	2.5	3
114	Reactive template synthesis of Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> nanorod cathode for Li-ion batteries: Influence of temperature over structural and electrochemical properties. <i>Electrochimica Acta</i> , <b>2019</b> , 317, 398-407	6.7	12
113	Structural and electrochemical investigation of binary Na <sub>2</sub> Fe <sub>1-x</sub> Zn <sub>x</sub> P <sub>2</sub> O <sub>7</sub> (0 ≤ x ≤ 1) pyrophosphate cathodes for sodium-ion batteries. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 277, 329-336	3.3	7
112	Frontispiz: Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie</i> , <b>2019</b> , 131,	3.6	5
111	Tavorite LiFePO <sub>4</sub> OH hydroxyphosphate as an anode for aqueous lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 429, 17-21	8.9	9
110	Low-Cost Rapid Template-Free Synthesis of Nanoscale Zinc Spinel for Energy Storage and Electrocatalytic Applications. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3211-3219	6.1	10
109	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8330-8335	16.4	44
108	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 8418	3.6	

107	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> , <b>2019</b> , 368, 235-243	14.7	55
106	Ultrasonic sonochemical synthesis of $Na_{0.44}MnO_2$ insertion material for sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 416, 50-55	8.9	9
105	Alluaudite $NaCoFe_2(PO_4)_3$ as a 2.9 V Cathode for Sodium-Ion Batteries Exhibiting Bifunctional Electrocatalytic Activity. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7501-7509	9.6	7
104	Cobalt and Nickel Phosphates as Multifunctional Air-Cathodes for Rechargeable Hybrid Sodium-Air Battery Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33811-33818	9.5	14
103	Cryptomelane $K_{1.33}Mn_8O_{16}$ as a cathode for rechargeable aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 23981-23988	13	31
102	Polymorphism and Temperature-Induced Phase Transitions of $NaCoPO_4$ . <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 16823-16830	5.1	2
101	An Overview of Mixed Polyanionic Cathode Materials for Sodium-Ion Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1800253	12.8	59
100	In Situ Neutron Diffraction Studies of $LiCe(WO_4)_2$ Polymorphs: Phase Transition and Structure-Property Correlation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1041-1049	3.8	5
99	Operando Structural and Electrochemical Investigation of $Li_{1.5}V_3O_8$ Nanorods in Li-ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 852-859	6.1	7
98	$Na_2FePO_4F$ Fluorophosphate as Positive Insertion Material for Aqueous Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 444-449	4.3	19
97	Swift Combustion Synthesis of $PbLi_2Ti_6O_{14}$ Anode for Lithium-Ion Batteries: Diffusional and Electrochemical Investigation. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A5122-A5130	3.9	5
96	Preferentially oriented $SrLi_2Ti_6O_{14}$ thin film anode for Li-ion micro-batteries fabricated by pulsed laser deposition. <i>Electrochimica Acta</i> , <b>2018</b> , 269, 212-216	6.7	4
95	Electrocatalytic Activity of Some Cobalt Based Sodium Phosphates in Alkaline Solution. <i>MRS Advances</i> , <b>2018</b> , 3, 1215-1220	0.7	4
94	Sodium Metal Sulphate Alluaudite Class of High Voltage Battery Insertion Materials. <i>MRS Advances</i> , <b>2018</b> , 3, 1209-1214	0.7	4
93	Ultra-rapid combustion synthesis of $Na_2FePO_4F$ fluorophosphate host for Li-ion and Na-ion insertion. <i>Ionics</i> , <b>2018</b> , 24, 2187-2192	2.7	11
92	Electrochemical and diffusional insights of combustion synthesized $SrLi_2Ti_6O_{14}$ negative insertion material for Li-ion Batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 385, 122-129	8.9	5
91	Earth-Abundant Alkali Iron Phosphates ( $AFePO_4$ ) as Efficient Electrocatalysts for the Oxygen Reduction Reaction in Alkaline Solution. <i>ChemCatChem</i> , <b>2018</b> , 10, 1122-1127	5.2	27
90	Bifunctional Electrocatalytic Behavior of Sodium Cobalt Phosphates in Alkaline Solution. <i>ChemElectroChem</i> , <b>2018</b> , 5, 153-158	4.3	35

89	Role of annealing temperature on cation ordering in hydrothermally prepared zinc aluminate (ZnAl <sub>2</sub> O <sub>4</sub> ) spinel. <i>Materials Research Bulletin</i> , <b>2018</b> , 98, 219-224	5.1	23
88	Exploration of Iron-Based Mixed Polyanion Cathode Material for Thin-Film Sodium-Ion Batteries. <i>ECS Transactions</i> , <b>2018</b> , 85, 227-234	1	7
87	Electrocatalytic Oxygen Reduction Reaction Activity of Sodium Metal Phosphate Based Insertion Cathodes. <i>ECS Transactions</i> , <b>2018</b> , 85, 1221-1227	1	3
86	Potassium Intercalation into Sodium Metal Oxide and Polyanionic Hosts: Few Case Studies. <i>ECS Transactions</i> , <b>2018</b> , 85, 207-214	1	5
85	Polyanionic Insertion Materials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703055	21.8	165
84	An Overview of Nanostructured Li-based Thin Film Micro-batteries <b>2018</b> , 98,		4
83	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> , <b>2018</b> , 514, 117-121	9.3	10
82	Layered Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub> as a 3.1 V Insertion Material for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6719-6724	6.1	15
81	Potassium-ion Intercalation Mechanism in Layered Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub> . <i>ACS Applied Energy Materials</i> , <b>2018</b> ,	6.1	5
80	Cubic Sodium Cobalt Metaphosphate [NaCo(PO)] as a Cathode Material for Sodium Ion Batteries. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 6324-6332	5.1	15
79	Revisiting the alluaudite NaMnFe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> sodium insertion material: Structural, diffusional and electrochemical insights. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 850-857	6.7	14
78	Enabling the Electrochemical Activity in Sodium Iron Metaphosphate [NaFe(PO)] Sodium Battery Insertion Material: Structural and Electrochemical Insights. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 5918-5929	5.1	24
77	Magnetic structure and properties of centrosymmetric twisted-melilite KCoPO. <i>Dalton Transactions</i> , <b>2017</b> , 46, 6409-6416	4.3	5
76	Alluaudite class of high voltage sodium insertion materials: An interplay of polymorphism and magnetism <b>2017</b> ,		1
75	Mechanistic study of Na-ion diffusion and small polaron formation in Krünkite Na <sub>2</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O based cathode materials. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21726-21739	13	15
74	Electrochemical and Diffusional Investigation of NaFePOF Fluorophosphate Sodium Insertion Material Obtained from Fe Precursor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34961-34969	9.5	19
73	Electrochemical potassium-ion intercalation in NaCoO: a novel cathode material for potassium-ion batteries. <i>Chemical Communications</i> , <b>2017</b> , 53, 8588-8591	5.8	54
72	Autocombustion Synthesis of Nanostructured Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> Negative Insertion Material for Na-Ion Batteries: Electrochemical and Diffusion Mechanism. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1881-A1886	3.9	11

71	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> , <b>2017</b> , 21, 437-445	2.6	11
70	Layered $\text{P}_2\text{-Na}_x\text{CoO}_2$ and $\text{Na}_x\text{FeO}_2$ as Cathode Materials for Potassium-Ion Batteries. <i>ECS Transactions</i> , <b>2017</b> , 80, 357-364	1	4
69	Sustainable Aqueous Synthesis and Electrochemical Insights on High-Voltage Sodium Alluaudite Insertion Materials. <i>ECS Transactions</i> , <b>2017</b> , 80, 337-342	1	6
68	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> , <b>2016</b> , 222, 898-903	6.7	11
67	Pursuit of Sustainable Iron-Based Sodium Battery Cathodes: Two Case Studies. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1006-1011	9.6	48
66	$\text{Na}_2\text{M}_2(\text{SO}_4)_3$ (M = Fe, Mn, Co and Ni): towards high-voltage sodium battery applications. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 9658-65	3.6	28
65	$\text{NaCo}(\text{SO})$ as a new member of the alluaudite family of high-voltage sodium battery cathodes. <i>Dalton Transactions</i> , <b>2016</b> , 46, 55-63	4.3	39
64	Ionothermal Synthesis of High-Voltage Alluaudite $\text{Na}_{2+2x}\text{Fe}_{2-x}(\text{SO}_4)_3$ Sodium Insertion Compound: Structural, Electronic, and Magnetic Insights. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6982-91	9.5	52
63	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> , <b>2015</b> , 296, 276-281	8.9	29
62	Insight into the limited electrochemical activity of $\text{NaVP}_2\text{O}_7$ . <i>RSC Advances</i> , <b>2015</b> , 5, 64991-64996	3.7	37
61	$\text{Na}_{2.44}\text{Mn}_{1.79}(\text{SO}_4)_3$ : a new member of the alluaudite family of insertion compounds for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18564-18571	13	82
60	Lithium metal borate ( $\text{LiMBO}_3$ ) family of insertion materials for Li-ion batteries: a sneak peak. <i>Ionics</i> , <b>2015</b> , 21, 1801-1812	2.7	25
59	Sulfate Chemistry for High-Voltage Insertion Materials: Synthetic, Structural and Electrochemical Insights. <i>Israel Journal of Chemistry</i> , <b>2015</b> , 55, 537-557	3.4	46
58	An alluaudite $\text{Na}_{2+2x}\text{Fe}_{2-x}(\text{SO}_4)_3$ ( $x=0.2$ ) derivative phase as insertion host for lithium battery. <i>Electrochemistry Communications</i> , <b>2015</b> , 51, 19-22	5.1	49
57	Role of Fuel on Cation Disorder in Magnesium Aluminate ( $\text{MgAl}_2\text{O}_4$ ) Spinel Prepared by Combustion Synthesis. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2908-2913	3.8	9
56	Designing Novel Sulphate-based Ceramic Materials as Insertion Host Compounds for Secondary Batteries. <i>Transactions of the Indian Ceramic Society</i> , <b>2015</b> , 74, 191-194	1.8	6
55	Structural, magnetic and electrochemical investigation of novel binary $\text{Na}_2\text{[(Fe}_{1-x}\text{Mn}_x)\text{P}_2\text{O}_7(\text{O}_{11})]$ pyrophosphate compounds for rechargeable sodium-ion batteries. <i>Solid State Ionics</i> , <b>2014</b> , 268, 305-311	3.3	31
54	A 3.8-V earth-abundant sodium battery electrode. <i>Nature Communications</i> , <b>2014</b> , 5, 4358	17.4	581

53	Krönkite-Type Na <sub>2</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O as a Novel 3.25 V Insertion Compound for Na-Ion Batteries. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1297-1299	9.6	103
52	Magnetic structure and properties of the rechargeable battery insertion compound Na <sub>2</sub> FePO <sub>4</sub> F. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 682-4	5.1	23
51	Sodium-ion battery cathodes Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> and Na <sub>2</sub> MnP <sub>2</sub> O <sub>7</sub> : diffusion behaviour for high rate performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11807-11812	13	74
50	t-Na <sub>2</sub> (VO)P <sub>2</sub> O <sub>7</sub> : A 3.8 V Pyrophosphate Insertion Material for Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1488-1491	4.3	47
49	Magnetic structures of NaFePO <sub>4</sub> maricite and triphylite polymorphs for sodium-ion batteries. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 8685-93	5.1	86
48	Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> : A Safe Cathode for Rechargeable Sodium-ion Batteries. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3480-3487	9.6	243
47	General Observation of Fe <sup>3+</sup> /Fe <sup>2+</sup> Redox Couple Close to 4 V in Partially Substituted Li <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> Pyrophosphate Solid-Solution Cathodes. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3623-3629	9.6	33
46	A new polymorph of Na <sub>2</sub> MnP <sub>2</sub> O <sub>7</sub> as a 3.6 V cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4194	13	148
45	Sodium manganese fluorosulfate with a triplite structure. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2013</b> , 69, 584-8	1.8	7
44	Magnetic structure and properties of the Na <sub>2</sub> CoP <sub>2</sub> O <sub>7</sub> pyrophosphate cathode for sodium-ion batteries: a supersuperexchange-driven non-collinear antiferromagnet. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 395-401	5.1	39
43	A layer-structured Na <sub>2</sub> CoP <sub>2</sub> O <sub>7</sub> pyrophosphate cathode for sodium-ion batteries. <i>RSC Advances</i> , <b>2013</b> , 3, 3857	3.7	82
42	Neutron diffraction study of the Li-ion battery cathode Li <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> . <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3334-451	5.1	24
41	High-Throughput Solution Combustion Synthesis of High-Capacity LiFeBO <sub>3</sub> Cathode. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A3095-A3099	3.9	28
40	Demonstration of Co <sup>3+</sup> /Co <sup>2+</sup> Electrochemical Activity in LiCoBO <sub>3</sub> Cathode at 4.0 V. <i>ECS Electrochemistry Letters</i> , <b>2013</b> , 2, A75-A77		22
39	Synthesis and crystal chemistry of the NaMSO <sub>4</sub> F family (M = Mg, Fe, Co, Cu, Zn). <i>Solid State Sciences</i> , <b>2012</b> , 14, 15-20	3.4	52
38	Observation of the highest Mn <sup>3+</sup> /Mn <sup>2+</sup> redox potential of 4.45 V in a Li <sub>2</sub> MnP <sub>2</sub> O <sub>7</sub> pyrophosphate cathode. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24526		57
37	Polymorphs of LiFeSO <sub>4</sub> F as cathode materials for lithium ion batteries - a first principle computational study. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 8678-82	3.6	54
36	Fe <sup>3+</sup> /Fe <sup>2+</sup> Redox Couple Approaching 4 V in Li <sub>2</sub> (Fe <sub>1-x</sub> Mn <sub>x</sub> )P <sub>2</sub> O <sub>7</sub> Pyrophosphate Cathodes. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1055-1061	9.6	66

35	Eco-efficient splash combustion synthesis of nanoscale pyrophosphate (Li <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> ) positive-electrode using Fe(III) precursors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13455		50
34	Sodium iron pyrophosphate: A novel 3.0 V iron-based cathode for sodium-ion batteries. <i>Electrochemistry Communications</i> , <b>2012</b> , 24, 116-119	5.1	268
33	Electrochemical Redox Mechanism in 3.5 V Li <sub>2-x</sub> FeP <sub>2</sub> O <sub>7</sub> (0 ≤ x ≤ 1) Pyrophosphate Cathode. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2598-2603	9.6	40
32	High-Voltage Pyrophosphate Cathodes. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 841-859	21.8	182
31	Enabling the Li-ion conductivity of Li-metal fluorosulphates by ionic liquid grafting. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 1743-1751	2.6	15
30	A 3.90 V iron-based fluorosulphate material for lithium-ion batteries crystallizing in the triplite structure. <i>Nature Materials</i> , <b>2011</b> , 10, 772-9	27	279
29	LiZnSO <sub>4</sub> F Made in an Ionic Liquid: A Ceramic Electrolyte Composite for Solid-State Lithium Batteries. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 2574-2579	3.6	8
28	Structural and Electrochemical Diversity in LiFe <sub>1-x</sub> Zn <sub>x</sub> SO <sub>4</sub> F Solid Solution: A Fe-Based 3.9 V Positive-Electrode Material. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 10762-10765	3.6	4
27	LiZnSO <sub>4</sub> F made in an ionic liquid: a ceramic electrolyte composite for solid-state lithium batteries. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2526-31	16.4	72
26	Structural and electrochemical diversity in LiFe <sub>(1-x)</sub> Zn <sub>x</sub> SO <sub>4</sub> F solid solution: a Fe-based 3.9 V positive-electrode material. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 10574-7	16.4	36
25	Direct and modified ionothermal synthesis of LiMnPO <sub>4</sub> with tunable morphology for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10143		63
24	Structure, surface morphology and electrochemical properties of brominated activated carbons. <i>Carbon</i> , <b>2011</b> , 49, 2538-2548	10.4	67
23	Magnetisation reversal in cylindrical nickel nanobars involving magnetic vortex structure: A micromagnetic study. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 1336-1340	2.8	1
22	Structural, transport, and electrochemical investigation of novel AMSO <sub>4</sub> F (A = Na, Li; M = Fe, Co, Ni, Mn) metal fluorosulphates prepared using low temperature synthesis routes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7401-13	5.1	151
21	Structure and electrochemical properties of novel mixed Li(Fe <sub>1-x</sub> M <sub>x</sub> )SO <sub>4</sub> F (M = Co, Ni, Mn) phases fabricated by low temperature ionothermal synthesis. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1659		109
20	Fluorosulfate Positive Electrodes for Li-Ion Batteries Made via a Solid-State Dry Process. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A1007	3.9	43
19	Synthesis, Structural, and Transport Properties of Novel Bihydrated Fluorosulphates NaMSO <sub>4</sub> F·2H <sub>2</sub> O (M = Fe, Co, and Ni). <i>Chemistry of Materials</i> , <b>2010</b> , 22, 4062-4068	9.6	45
18	Hunting for Better Li-Based Electrode Materials via Low Temperature Inorganic Synthesis. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 724-739	9.6	209



17	Structural and electrochemical modification of graphitic carbons by vapor-phase iodine-incorporation. <i>Carbon</i> , <b>2010</b> , 48, 4178-4189	10.4	13
16	Fabrication, Physical and Electrochemical Investigation of Microporous Carbon Polyiodide Nanocomposites. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, A873	3.9	10
15	The Role of Magnetic Vortex Formation in Chains of Spherical FeNi Nanoparticles: A Micromagnetics Study. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 103002	1.4	7
14	Micromagnetics of magnetisation reversal mechanism in Permalloy chain-of-sphere structure with magnetic vortices. <i>Computational Materials Science</i> , <b>2009</b> , 45, 240-246	3.2	4
13	Stability of Larger Ferromagnetic Chain-of-sphere Nanostructure Comprising Magnetic Vortices. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1071, 1		
12	Structure and Electrochemistry of Carbon-Bromine Nanocomposite Electrodes for Electrochemical Energy Storage. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1127, 1		2
11	Microporous Carbon-halide Nanocomposites Electrodes for Symmetric and Asymmetric Capacitor. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1100, 6041		
10	The physical and electrochemical characterization of vapor phase iodated activated carbons. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 7136-7147	6.7	16
9	Carbon-Halide Nanocomposites for Asymmetric Hybrid Supercapacitors. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1056, 1		
8	Physical and Electrochemical Properties of Iodine-Modified Activated Carbons. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A467	3.9	19
7	Evolution and propagation of magnetic vortices in chains of Permalloy nanospheres. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08G103	2.5	15
6	Activated Carbons for High Power Energy Storage: Below the Surface of Non-Faradaic Reactions. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 973, 1		1
5	Chemically induced order disorder transition in magnesium aluminium spinel. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 2603-2609	6	24
4	Off-axis electron holography of pseudo-spin-valve thin-film magnetic elements. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 013903	2.5	19
3	Compression Strength of Saline Water-exposed Epoxy System Containing Fly Ash Particles. <i>Journal of Reinforced Plastics and Composites</i> , <b>2005</b> , 24, 1567-1576	2.9	11
2	Synthesis of magnesium-aluminium spinel from autoignition of citrate-triurate gel. <i>Materials Letters</i> , <b>2004</b> , 58, 1451-1455	3.3	57
1	Aqueous spray-drying synthesis of alluaudite $\text{Na}_{2+2x}\text{Fe}_2\text{O}_7(\text{SO}_4)_3$ sodium insertion material: studies of electrochemical activity, thermodynamic stability, and humidity-induced phase transition. <i>Journal of Solid State Electrochemistry</i> , <b>2004</b> , 8, 103-110	2.6	0