Moulay T Sougrati

List of Publications by Year
in descending order

203 papers	15,068 citations	38660 50 h-index	19136 118 g-index
233 all docs	233 docs citations	233 times ranked	15190 citing authors

#	Article	IF	Citations
1	Carbon-coated FePO4 nanoparticles as stable cathode for Na-ion batteries: A promising full cell with a Na15Pb4 anode. Electrochimica Acta, 2022, 409, 139997.	2.6	28
2	Exploration of a Na3V2(PO4)3/C â€“Pb full cell Na-ion prototype. Nano Energy, 2022, 95, 107010.	8.2	31
3	High loading of single atomic iron sites in Feâ€“NC oxygen reduction catalysts for proton exchange membrane fuel cells. Nature Catalysis, 2022, 5, 311-323.	16.1	248
4	Probing the core and surface composition of nanoalloy to rationalize its selectivity: Study of Ni-Fe/SiO2 catalysts for liquid-phase hydrogenation. Chem Catalysis, 2022, 2, 1686-1708.	2.9	12
5	Identification of durable and non-durable FeNx sites in Feâ€“Nâ€“C materials for proton exchange membrane fuel cells. Nature Catalysis, 2021, 4, 10-19.	16.1	368
6	Topotactically constructed nickelâ€“iron (oxy)hydroxide with abundant in-situ produced high-valent iron species for efficient water oxidation. Journal of Energy Chemistry, 2021, 57, 212-218.	7.1	50
7	Insights into the electronic structure of Fe penta-coordinated complexes. Spectroscopic examination and electrochemical analysis for the oxygen reduction and oxygen evolution reactions. Journal of Materials Chemistry A, 2021, 9, 23802-23816.	5.2	27
8	Investigating the Cycling Stability of Fe2WO6 Pseudocapacitive Electrode Materials. Nanomaterials, 2021, 11, 1405.	1.9	9
9	Understanding the Influence of Fe-N-C Cathode Catalyst Structure on Their Performance and Durability in High Performing Anion Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-01, 1833-1833.	0.0	0
10	In Situ Observation of the Formation of Fe-N4 Sites Via Metalation during the Pyrolysis of Fe Precursors and N-Doped Carbon Matrix. ECS Meeting Abstracts, 2021, MA2021-01, 1832-1832.	0.0	0
11	Impact of Solution Chemistry on Growth and Structural Features of Mo-Substituted Spinel Iron Oxides. Inorganic Chemistry, 2021, 60, 7217-7227.	1.9	3
12	Chemical vapour deposition of Feâ€“Nâ€“C oxygen reduction catalysts with full utilization of dense Feâ€“N4 sites. Nature Materials, 2021, 20, 1385-1391.	13.3	359
13	2021 roadmap for sodium-ion batteries. JPhys Energy, 2021, 3, 031503.	2.3	125
14	Metal Oxide Clusters on Nitrogen-Doped Carbon are Highly Selective for CO₂ Electroreduction to CO. ACS Catalysis, 2021, 11, 10028-10042.	5.5	37
15	In situ/operando MÃ¶ssbauer spectroscopy for probing heterogeneous catalysis. Chem Catalysis, 2021, 1, 1215-1233.	2.9	24
16	Correlating ligand-to-metal charge transfer with voltage hysteresis in a Li-rich rock-salt compound exhibiting anionic redox. Nature Chemistry, 2021, 13, 1070-1080.	6.6	75
17	In situ high temperature XRD study of Sr-doped ceramics La0.95Sr0.05MnO3+Î´. Solid State Communications, 2021, 336, 114401.	0.9	4
18	Influence of the synthesis parameters on the proton exchange membrane fuel cells performance of Feâ€“Nâ€“C aerogel catalysts. Journal of Power Sources, 2021, 514, 230561.	4.0	17

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19	Alkaline-earth metal-doped perovskites La0.95A0.05MnO3+Î´ (A = Ca, Sr): New structural and magnetic features revealed by 57Fe MÃ¶ssbauer spectroscopy and magnetic measurements. Journal of Physics and Chemistry of Solids, 2021, 159, 110268.	1.9	3
20	Si/Cu-Zn(ox)/C composite as anode material for Li-ion batteries. Solid State Ionics, 2021, 372, 115774.	1.3	5
21	Understanding how single-atom site density drives the performance and durability of PGM-free Feâ€"Nâ€"C cathodes in anion exchange membrane fuel cells. Materials Today Advances, 2021, 12, 100179.	2.5	18
22	Reversible High Capacity and Reaction Mechanism of Cr₂(NCN)₃ Negative Electrodes for Liâ€ion Batteries. Energy Technology, 2020, 8, 1901260.	1.8	9
23	Evolution Pathway from Iron Compounds to Fe₁(II)â€"N₄ Sites through Gas-Phase Iron during Pyrolysis. Journal of the American Chemical Society, 2020, 142, 1417-1423.	6.6	185
24	High-rate cyclability and stability of LiMn2O4 cathode materials for lithium-ion batteries from low-cost natural Î²â^'MnO2. Energy Storage Materials, 2020, 26, 423-432.	9.5	69
25	Quantumâ€Chemical Study of the FeNCN Conversionâ€Reaction Mechanism in Lithiumâ€•and Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 3718-3723.	7.2	24
26	Electrochemical investigations of high-voltage Na4Ni3(PO4)2P2O7 cathode for sodium-ion batteries. Journal of Solid State Electrochemistry, 2020, 24, 17-24.	1.2	24
27	Towards valorizing natural coals in sodium-ion batteries: impact of coal rank on energy storage. Scientific Reports, 2020, 10, 15871.	1.6	7
28	P-block single-metal-site tin/nitrogen-doped carbon fuel cell cathode catalyst for oxygen reduction reaction. Nature Materials, 2020, 19, 1215-1223.	13.3	278
29	The Fe 4+/3+ Redox Mechanism in NaFeO 2 : A Simultaneous Operando Nuclear Resonance and Xâ€ray Scattering Study. Batteries and Supercaps, 2020, 3, 1341-1349.	2.4	10
30	Establishing reactivity descriptors for platinum group metal (PGM)-free Feâ€"Nâ€"C catalysts for PEM fuel cells. Energy and Environmental Science, 2020, 13, 2480-2500.	15.6	205
31	Stable, Active, and Methanol-Tolerant PGM-Free Surfaces in an Acidic Medium: Electron Tunneling at Play in Pt/FeNC Hybrid Catalysts for Direct Methanol Fuel Cell Cathodes. ACS Catalysis, 2020, 10, 7475-7485.	5.5	28
32	Unravelling lithiation mechanisms of iron trifluoride by <i>operando</i> X-ray absorption spectroscopy and MCR-ALS chemometric tools. New Journal of Chemistry, 2020, 44, 10153-10164.	1.4	8
33	Ironâ€•and Nitrogenâ€Doped Grapheneâ€Based Catalysts for Fuel Cell Applications. ChemElectroChem, 2020, 7, 1739-1747.	1.7	53
34	Characterizing Complex Gasâ€"Solid Interfaces with in Situ Spectroscopy: Oxygen Adsorption Behavior on Feâ€"Nâ€"C Catalysts. Journal of Physical Chemistry C, 2020, 124, 16529-16543.	1.5	20
35	Quantumâ€Chemical Study of the FeNCN Conversionâ€Reaction Mechanism in Lithiumâ€•and Sodiumâ€ion Batteries. Angewandte Chemie, 2020, 132, 3747-3752.	1.6	2
36	Lithium-driven conversion and alloying mechanisms in core-shell Sn/SnOx nanoparticles. Solid State Sciences, 2020, 101, 106153.	1.5	2

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37	Structural Evolution of Iron(III) Trifluoroacetate upon Thermal Decomposition: Chains, Layers, and Rings. Chemistry of Materials, 2020, 32, 2482-2488.	3.2	7
38	A Highly Active Iron-Based ORR Catalyst Via Chemical Vapor Deposition. ECS Meeting Abstracts, 2020, MA2020-01, 1598-1598.	0.0	1
39	Move Beyond the Evolution Pathway for the Formation of M-N4 Sites upon Pyrolysis of the Mixture of M, N, and C Precursors. ECS Meeting Abstracts, 2020, MA2020-01, 1596-1596.	0.0	0
40	The Effect of Ball-Milling on the Oxygen Reduction Reaction Activity of Iron and Nitrogen Co-Doped Carbide-Derived Carbon Catalysts in Acid Media. ECS Meeting Abstracts, 2020, MA2020-02, 2269-2269.	0.0	0
41	Iron and Nitrogen-Doped Graphene As Cathode Catalyst for Anion Exchange Membrane Fuel Cell. ECS Meeting Abstracts, 2020, MA2020-02, 2393-2393.	0.0	0
42	Move Beyond the Evolution Pathway for the Formation of M-N₄ Sites upon Pyrolysis of the Mixture of M, N, and C Precursors. ECS Meeting Abstracts, 2020, MA2020-02, 2274-2274.	0.0	0
43	An oxalate cathode for lithium ion batteries with combined cationic and polyanionic redox. Nature Communications, 2019, 10, 3483.	5.8	65
44	Revisiting the Phase Transition of Magnetite under Pressure. Journal of Physical Chemistry C, 2019, 123, 21114-21119.	1.5	7
45	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. Nature Energy, 2019, 4, 977-987.	19.8	123
46	Cobalt Carbodiimide as Negative Electrode for Liâ€Ion Batteries: Electrochemical Mechanism and Performance. ChemElectroChem, 2019, 6, 5101-5108.	1.7	11
47	ZnSnSb2 anode: A solid solution behavior enabling high rate capability in Li-ion batteries. Journal of Power Sources, 2019, 441, 227165.	4.0	7
48	Effect of Ball-Milling on the Oxygen Reduction Reaction Activity of Iron and Nitrogen Co-doped Carbide-Derived Carbon Catalysts in Acid Media. ACS Applied Energy Materials, 2019, 2, 7952-7962.	2.5	36
49	Understanding Active Sites in Pyrolyzed Feâ€“Nâ€“C Catalysts for Fuel Cell Cathodes by Bridging Density Functional Theory Calculations and ⁵⁷Fe MÃ¶ssbauer Spectroscopy. ACS Catalysis, 2019, 9, 9359-9371.	5.5	167
50	Elaboration and Characterization of Active Films Containing Ironâ€“Montmorillonite Nanocomposites for O2 Scavenging. Nanomaterials, 2019, 9, 1193.	1.9	5
51	Designing the 3D Architecture of PGM-Free Cathodes for H₂/Air Proton Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2019, 2, 7211-7222.	2.5	41
52	A Dissolution/Precipitation Equilibrium on the Surface of Iridiumâ€Based Perovskites Controls Their Activity as Oxygen Evolution Reaction Catalysts in Acidic Media. Angewandte Chemie - International Edition, 2019, 58, 4571-4575.	7.2	141
53	Applying chemometrics to study battery materials: Towards the comprehensive analysis of complex operando datasets. Energy Storage Materials, 2019, 18, 328-337.	9.5	44
54	Operando X-ray absorption spectroscopy applied to battery materials at ICGM: The challenging case of BiSb's sodiation. Energy Storage Materials, 2019, 21, 1-13.	9.5	12

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55	SnSb<i>vs.</i>Sn: improving the performance of Sn-based anodes for K-ion batteries by synergetic alloying with Sb. Journal of Materials Chemistry A, 2019, 7, 15262-15270.	5.2	50
56	A Dissolution/Precipitation Equilibrium on the Surface of Iridiumâ€Based Perovskites Controls Their Activity as Oxygen Evolution Reaction Catalysts in Acidic Media. Angewandte Chemie, 2019, 131, 4619-4623.	1.6	41
57	Bituminous Coal as Lowâ€Cost Anode Materials for Sodiumâ€Ion and Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1900005.	1.8	16
58	The Challenge of Achieving a High Density of Fe-Based Active Sites in a Highly Graphitic Carbon Matrix. Catalysts, 2019, 9, 144.	1.6	22
59	Electrochemical Evaluation of Pb, Ag, and Zn Cyanamides/Carbodiimides. ACS Omega, 2019, 4, 4339-4347.	1.6	16
60	Bimetallic Fe-Ni/SiO2 catalysts for furfural hydrogenation: Identification of the interplay between Fe and Ni during deposition-precipitation and thermal treatments. Catalysis Today, 2019, 334, 162-172.	2.2	46
61	The Electrochemical Sodiation of FeSb2 : New Insights from Operando 57 Fe Synchrotron MÃ¶ssbauer and X-Ray Absorption Spectroscopy. Batteries and Supercaps, 2019, 2, 4-4.	2.4	0
62	Hybrid iron montmorillonite nano-particles as an oxygen scavenger. Chemical Engineering Journal, 2019, 357, 750-760.	6.6	12
63	The Electrochemical Sodiation of FeSb₂: New Insights from Operando ⁵⁷Fe Synchrotron MÃ¶ssbauer and Xâ€Ray Absorption Spectroscopy. Batteries and Supercaps, 2019, 2, 66-73.	2.4	18
64	Elucidating the origin of superior electrochemical cycling performance: new insights on sodiationâ€“desodiation mechanism of SnSb from <i>operando</i> spectroscopy. Journal of Materials Chemistry A, 2018, 6, 8724-8734.	5.2	31
65	Understanding Fundamentals and Reaction Mechanisms of Electrode Materials for Naâ€Ion Batteries. Small, 2018, 14, e1703338.	5.2	86
66	Iron molybdate thin films prepared by sputtering and their electrochemical behavior in Li batteries. Journal of Alloys and Compounds, 2018, 735, 1454-1462.	2.8	8
67	Electrochemical Performance and Mechanisms of NaSn2(PO4)3/C Composites as Anode Materials for Li-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 11194-11203.	1.5	9
68	Investigation of Ba0.5Sr0.5CoxFe1-xO3-Î´ as a pseudocapacitive electrode material with high volumetric capacitance. Electrochimica Acta, 2018, 271, 677-684.	2.6	12
69	The Achilles' heel of iron-based catalysts during oxygen reduction in an acidic medium. Energy and Environmental Science, 2018, 11, 3176-3182.	15.6	332
70	Stabilizing the Structure of LiCoPO4 Nanocrystals via Addition of Fe3+: Formation of Fe3+ Surface Layer, Creation of Diffusion-Enhancing Vacancies, and Enabling High-Voltage Battery Operation. Chemistry of Materials, 2018, 30, 6675-6683.	3.2	16
71	Stabilization of Iron-Based Fuel Cell Catalysts by Non-Catalytic Platinum. Journal of the Electrochemical Society, 2018, 165, F1084-F1091.	1.3	33
72	Electrochemical Mechanism and Effect of Carbon Nanotubes on the Electrochemical Performance of Fe_{1.19}(PO₄)(OH)_{0.57}(H₂O)_{0.43} Cathode Material for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 34202-34211.	4.0	13

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73	Synthesis of highly-active Feâ€“Nâ€“C catalysts for PEMFC with carbide-derived carbons. Journal of Materials Chemistry A, 2018, 6, 14663-14674.	5.2	94
74	Understanding the Sn Loading Impact on the Performance of Mesoporous Carbon/Snâ€Based Nanocomposites in Liâ€Ion Batteries. ChemElectroChem, 2018, 5, 3249-3257.	1.7	12
75	The Electrochemical Sodiation of Sb Investigated by Operando X-ray Absorption and 121Sb MÃ¶ssbauer Spectroscopy: What Does One Really Learn?. Batteries, 2018, 4, 25.	2.1	20
76	Carbodiimides as energy materials: which directions for a reasonable future?. Dalton Transactions, 2018, 47, 10827-10832.	1.6	51
77	On the high cycling stability of NbSnSb in Li-ion batteries at high temperature. Electrochimica Acta, 2018, 281, 619-623.	2.6	5
78	Li- and Na-ion Storage Performance of Natural Graphite via Simple Flotation Process. Journal of Electrochemical Science and Technology, 2018, 9, 320-329.	0.9	20
79	Electrochemical Reduction of CO₂ Catalyzed by Fe-N-C Materials: A Structureâ€“Selectivity Study. ACS Catalysis, 2017, 7, 1520-1525.	5.5	363
80	SnSb electrodes for Li-ion batteries: the electrochemical mechanism and capacity fading origins elucidated by using operando techniques. Journal of Materials Chemistry A, 2017, 5, 6546-6555.	5.2	31
81	Na₂Fe(C₂O₄)F₂: A New Iron-Based Polyoxyanion Cathode for Li/Na Ion Batteries. Chemistry of Materials, 2017, 29, 2167-2172.	3.2	40
82	Aging Processes in Lithiated FeSn₂ Based Negative Electrode for Li-Ion Batteries: A New Challenge for Tin Based Intermetallic Materials. Journal of Physical Chemistry C, 2017, 121, 217-224.	1.5	13
83	Rhombohedral Iron Trifluoride with a Hierarchized Macroporous/Mesoporous Texture from Gaseous Fluorination of Iron Disilicide. E3S Web of Conferences, 2017, 16, 08001.	0.2	0
84	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Feâ€Nâ€C Catalysts. Angewandte Chemie, 2017, 129, 8935-8938.	1.6	16
85	Unraveling the Nature of Sites Active toward Hydrogen Peroxide Reduction in Feâ€Nâ€C Catalysts. Angewandte Chemie - International Edition, 2017, 56, 8809-8812.	7.2	176
86	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. Advanced Energy Materials, 2017, 7, 1601424.	10.2	486
87	Unidimensional unit cell variation and Fe+3/Fe+4 redox activity of Li3FeN2 in Li-ion batteries. Journal of Alloys and Compounds, 2017, 696, 971-979.	2.8	13
88	Reinvestigation of Na₂Fe₂(C₂O₄)₃Â·2H₂O: An Iron-Based Positive Electrode for Secondary Batteries. Chemistry of Materials, 2017, 29, 9095-9101.	3.2	21
89	The electrochemical activity of the nitrosyl ligand in copper nitroprusside: a new possible redox mechanism for lithium battery electrode materials?. Electrochimica Acta, 2017, 257, 364-371.	2.6	15
90	Hydrothermal Preparation, Crystal Chemistry, and Redox Properties of Iron Muscovite Clay. ACS Applied Materials & Interfaces, 2017, 9, 34024-34032.	4.0	5

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91	Evaluation of electrochemical performances of ZnFe₂O₄/Î³-Fe₂O₃nanoparticles prepared by laser pyrolysis. New Journal of Chemistry, 2017, 41, 9236-9243.	1.4	16
92	In-Depth Analysis of the Conversion Mechanism of TiSnSb vs Li by Operando Triple-Edge X-ray Absorption Spectroscopy: a Chemometric Approach. Chemistry of Materials, 2017, 29, 10446-10454.	3.2	31
93	FeSi4P4: A novel negative electrode with atypical electrochemical mechanism for Li and Na-ion batteries. Journal of Power Sources, 2017, 372, 196-203.	4.0	10
94	Transitionâ€Metal Carbodiimides as Molecular Negative Electrode Materials for Lithiumâ€•and Sodiumâ€łon Batteries with Excellent Cycling Properties. Angewandte Chemie - International Edition, 2016, 55, 5090-5095.	7.2	86
95	Ãœbergangsmetallcarbodiimide als molekulare negative Elektrodenâ€•materialien fÃ¼r Liâ€•und Naâ€łonenbatterien mit hervorragendem Zyklisierungsverhalten. Angewandte Chemie, 2016, 128, 5174-5179.	1.6	11
96	Minimizing Operando Demetallation of Fe-N-C Electrocatalysts in Acidic Medium. ACS Catalysis, 2016, 6, 3136-3146.	5.5	201
97	Spectroscopic insights into the nature of active sites in ironâ€“nitrogenâ€“carbon electrocatalysts for oxygen reduction in acid. Nano Energy, 2016, 29, 65-82.	8.2	269
98	Operando MÃ¶ssbauer Spectroscopy Investigation of the Electrochemical Reaction with Lithium in Bronze-Type FeF₃Â·0.33H₂O. Journal of Physical Chemistry C, 2016, 120, 23933-23943.	1.5	17
99	How Should Iron and Titanium be Combined in Oxides to Improve Photoelectrochemical Properties?. Journal of Physical Chemistry C, 2016, 120, 24521-24532.	1.5	35
100	Iron Phosphate/Bacteria Composites as Precursors for Textured Electrode Materials with Enhanced Electrochemical Properties. Journal of the Electrochemical Society, 2016, 163, A2139-A2148.	1.3	13
101	Synthesis, Structure, and Electrochemical Properties of Na3MB5O10 (M = Fe, Co) Containing M2+ in Tetrahedral Coordination. Inorganic Chemistry, 2016, 55, 12775-12782.	1.9	18
102	Electron transfer and spin transition in metal-hexacyanoferrates driven by anatase TiO₂: electronic and structural order effects. New Journal of Chemistry, 2016, 40, 10406-10411.	1.4	3
103	A novel route for FePO4 olivine synthesis from sarcopside oxidation. Solid State Sciences, 2016, 62, 29-33.	1.5	6
104	Unveiling the sodium intercalation properties in Na1.86â–¡0.14Fe3(PO4)3. Journal of Power Sources, 2016, 324, 657-664.	4.0	38
105	Structural and mechanistic basis for the high activity of Feâ€“Nâ€“C catalysts toward oxygen reduction. Energy and Environmental Science, 2016, 9, 2418-2432.	15.6	472
106	Ultra-fast dry microwave preparation of SnSb used as negative electrode material for Li-ion batteries. Journal of Power Sources, 2016, 325, 346-350.	4.0	17
107	Structural reinvestigation of Li3FeN2: Evidence of cationic disorder through XRD, solid-state NMR and MÃ¶ssbauer spectroscopy. Journal of Physics and Chemistry of Solids, 2016, 95, 37-42.	1.9	2
108	Effects of Relaxation on Conversion Negative Electrode Materials for Li-Ion Batteries: A Study of TiSnSb Using ¹¹⁹Sn MÃ¶ssbauer and ⁷Li MAS NMR Spectroscopies. Chemistry of Materials, 2016, 28, 4032-4041.	3.2	12

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109	Na2FePO4F/multi-walled carbon nanotubes for lithium-ion batteries: Operando MÃ¶ssbauer study of spray-dried composites. Solar Energy Materials and Solar Cells, 2016, 148, 67-72.	3.0	27
110	Rhombohedral iron trifluoride with a hierarchized macroporous/mesoporous texture from gaseous fluorination of iron disilicide. Materials Chemistry and Physics, 2016, 173, 355-363.	2.0	8
111	Role of iron in Na 1.5Fe 0.5Ti 1.5(PO 4) 3/C as electrode material for Na-ion batteries studied by operando MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2016, 237, 1.	0.2	6
112	Probing active sites in iron-based catalysts for oxygen electro-reduction: A temperature-dependent 57 Fe MÃ¶ssbauer spectroscopy study. Catalysis Today, 2016, 262, 110-120.	2.2	70
113	Toward understanding the lithiation/delithiation process in Fe0.5TiOPO4/C electrode material for lithium-ion batteries. Solar Energy Materials and Solar Cells, 2016, 148, 11-19.	3.0	12
114	Engineering of Iron-Based Magnetic Activated Carbon Fabrics for Environmental Remediation. Materials, 2015, 8, 4593-4607.	1.3	30
115	Synthesis of Li 2 FeSiO 4 /carbon nano-composites by impregnation method. Journal of Power Sources, 2015, 284, 574-581.	4.0	20
116	(NH₄)_{0.75}Fe(H₂O)₂[BP₂O₈]Â·0.25H₂O, a Fe³⁺/Fe²⁺ Mixed Valence Cathode Material for Na Battery Exhibiting a Helical Structure. Journal of Physical Chemistry C, 2015, 119, 4540-4549.	1.5	13
117	Unraveling the Structure of Iron(III) Oxalate Tetrahydrate and Its Reversible Li Insertion Capability. Chemistry of Materials, 2015, 27, 1631-1639.	3.2	30
118	Novel Complex Stacking of Fully-Ordered Transition Metal Layers in Li₄FeSbO₆ Materials. Chemistry of Materials, 2015, 27, 1699-1708.	3.2	40
119	Performance and mechanism of FeSb2 as negative electrode for Na-ion batteries. Journal of Power Sources, 2015, 280, 588-592.	4.0	67
120	Influence of relative humidity on the structure and electrochemical performance of sustainable LiFeSO₄F electrodes for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16988-16997.	5.2	32
121	Nano-structured non-platinum catalysts for automotive fuel cell application. Nano Energy, 2015, 16, 293-300.	8.2	190
122	Highly active oxygen reduction non-platinum group metal electrocatalyst without direct metalâ€“nitrogen coordination. Nature Communications, 2015, 6, 7343.	5.8	583
123	Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. Journal of the Electrochemical Society, 2015, 162, A1341-A1351.	1.3	47
124	Engineering of air-stable Fe/C/Pd composite nanoparticles for environmental remediation applications. Journal of Magnetism and Magnetic Materials, 2015, 389, 82-89.	1.0	9
125	Singular Structural and Electrochemical Properties in Highly Defective LiFePO₄ Powders. Chemistry of Materials, 2015, 27, 4261-4273.	3.2	43
126	Understanding the Roles of Anionic Redox and Oxygen Release during Electrochemical Cycling of Lithium-Rich Layered Li₄FeSbO₆. Journal of the American Chemical Society, 2015, 137, 4804-4814.	6.6	155

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127	Synthesis, structure and electrochemical properties of metal malonate Na2M(H2C3O4)2Â·nH2O (nÂ=Â0, 2) compounds and comparison with oxalate Na2M2(C2O4)3Â·2H2O compounds. Solid State Sciences, 2015, 42, 6-13.	1.5	13
128	Identification of catalytic sites for oxygen reduction in iron- and nitrogen-doped grapheneÂmaterials. Nature Materials, 2015, 14, 937-942.	13.3	1,714
129	Mechanisms and Performances of Na1.5Fe0.5Ti1.5(PO4)3/C Composite as Electrode Material for Na-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 25220-25234.	1.5	31
130	Structural, electrochemical and magnetic properties of a novel KFeSO₄F polymorph. Journal of Materials Chemistry A, 2015, 3, 19754-19764.	5.2	36
131	Nuclear Forward Scattering of Synchrotron Radiation by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ru</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>99</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2014, 113, 147601.	2.9	8
132	Hydrothermal Preparation and Magnetic Properties of NaFeSi₂O₆: Nanowires vs Bulk Samples. Inorganic Chemistry, 2014, 53, 12396-12401.	1.9	9
133	New Fe₂TiO₅-based nanoheterostructured mesoporous photoanodes with improved visible light photoresponses. Journal of Materials Chemistry A, 2014, 2, 6567-6577.	5.2	59
134	MnSn2 electrodes for Li-ion batteries: Mechanisms at the nano scale and electrode/electrolyte interface. Electrochimica Acta, 2014, 123, 72-83.	2.6	40
135	Formation of single domain magnetite by green rust oxidation promoted by microbial anaerobic nitrate-dependent iron oxidation. Geochimica Et Cosmochimica Acta, 2014, 139, 327-343.	1.6	55
136	Synthesis and characterization of iron, iron oxide and iron carbide nanostructures. Journal of Magnetism and Magnetic Materials, 2014, 349, 35-44.	1.0	37
137	Effect of Furfuryl Alcohol on Metal Organic Framework-based Fe/N/C Electrocatalysts for Polymer Electrolyte Membrane Fuel Cells. Electrochimica Acta, 2014, 119, 192-205.	2.6	72
138	Low Temperature Preparation and Electrochemical Properties of LiFeSi2O6. Journal of the Electrochemical Society, 2014, 161, A1642-A1647.	1.3	10
139	Design of new electrode materials for Li-ion and Na-ion batteries from the bloedite mineral Na₂Mg(SO₄)₂Â·4H₂O. Journal of Materials Chemistry A, 2014, 2, 2671-2680.	5.2	80
140	119Sn MÃ¶ssbauer spectroscopy study of the mechanism of lithium reaction with self-organized Ti1/2Sn1/2O2 nanotubes. Nanoscale, 2014, 6, 7827.	2.8	6
141	Degradation of Fe/N/C catalysts upon high polarization in acid medium. Physical Chemistry Chemical Physics, 2014, 16, 18454-18462.	1.3	182
142	Engineered Magnetic Coreâ€"Shell SiO2/Fe Microspheres and â€œMedusa-likeâ€• Microspheres of SiO2/Iron Oxide/Carbon Nanofibers or Nanotubes. Langmuir, 2014, 30, 9850-9858.	1.6	7
143	An Oxysulfate Fe2O(SO4)2 Electrode for Sustainable Li-Based Batteries. Journal of the American Chemical Society, 2014, 136, 12658-12666.	6.6	16
144	Synthesis and Electrochemical Performance of the Orthorhombic Li₂Fe(SO₄)₂ Polymorph for Li-Ion Batteries. Chemistry of Materials, 2014, 26, 4178-4189.	3.2	53

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