John B. Goodenough

List of Publications by Year
in descending order

658 papers	106,285 citations	246 143 h-index	220 308 g-index
670 all docs	670 docs citations	670 times ranked	53465 citing authors

#	Article	IF	Citations
1	Challenges for Rechargeable Li Batteries. Chemistry of Materials, 2010, 22, 587-603.	3.2	8,933
2	The Li-Ion Rechargeable Battery: A Perspective. Journal of the American Chemical Society, 2013, 135, 1167-1176.	6.6	7,499
3	Phosphoâ€olivines as Positiveâ€Electrode Materials for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 1997, 144, 1188-1194.	1.3	6,885
4	A Perovskite Oxide Optimized for Oxygen Evolution Catalysis from Molecular Orbital Principles. Science, 2011, 334, 1383-1385.	6.0	4,230
5	Theory of the Role of Covalence in the Perovskite-Type Manganites[La,ÂM(II)]MnO_3. Physical Review, 1955, 100, 564-573.	2.7	3,769
6	Design principles for oxygen-reduction activity on perovskite oxide catalysts for fuel cells and metalâ€“air batteries. Nature Chemistry, 2011, 3, 546-550.	6.6	2,331
7	Pathways for practical high-energy long-cycling lithium metal batteries. Nature Energy, 2019, 4, 180-186.	19.8	2,101
8	The two components of the crystallographic transition in VO_2. Journal of Solid State Chemistry, 1971, 3, 490-500.	1.4	1,237
9	Effect of Structure on the Fe3â€‰+â€‰â€‰/â€‰Fe2â€‰+â€‰ Redox Couple in Iron Phosphates. Journal of the Electrochemical Society, 1997, 144, 1609-1613.	1.3	1,161
10	Development and challenges of LiFePO₄cathode material for lithium-ion batteries. Energy and Environmental Science, 2011, 4, 269-284.	15.6	1,058
11	PEO/garnet composite electrolytes for solid-state lithium batteries: From â€œceramic-in-polymerâ€to â€œpolymer-in-ceramicâ€. Nano Energy, 2018, 46, 176-184.	8.2	1,042
12	Xâ€ray photoemission spectroscopy studies of Snâ€doped indiumâ€oxide films. Journal of Applied Physics, 1977, 48, 3524-3531.	1.1	973
13	Double Perovskites as Anode Materials for Solid-Oxide Fuel Cells. Science, 2006, 312, 254-257.	6.0	936
14	Prussian blue: a new framework of electrode materials for sodium batteries. Chemical Communications, 2012, 48, 6544.	2.2	929
15	Contextual correlates of synonymy. Communications of the ACM, 1965, 8, 627-633.	3.3	868
16	First-Order Localized-Electronâ‡†Collective-Electron Transition in $LaCoO_3$. Physical Review, 1967, 155, 932-943.	2.7	859
17	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. Journal of the American Chemical Society, 2016, 138, 9385-9388.	6.6	844
18	Electrochemical energy storage in a sustainable modern society. Energy and Environmental Science, 2014, 7, 14-18.	15.6	806

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19	Evolution of Strategies for Modern Rechargeable Batteries. Accounts of Chemical Research, 2013, 46, 1053-1061.	7.6	707
20	A Superior Lowâ€Cost Cathode for a Naâ€Ion Battery. Angewandte Chemie - International Edition, 2013, 52, 1964-1967.	7.2	698
21	Relationship Between Crystal Symmetry and Magnetic Properties of Ionic Compounds ContainingMn3+. Physical Review, 1961, 124, 373-384.	2.7	690
22	Removal of Interstitial H₂O in Hexacyanometallates for a Superior Cathode of a Sodium-Ion Battery. Journal of the American Chemical Society, 2015, 137, 2658-2664.	6.6	654
23	Theory of Ionic Ordering, Crystal Distortion, and Magnetic Exchange Due to Covalent Forces in Spinels. Physical Review, 1955, 98, 391-408.	2.7	641
24	Monodisperse Porous LiFePO₄ Microspheres for a High Power Li-Ion Battery Cathode. Journal of the American Chemical Society, 2011, 133, 2132-2135.	6.6	628
25	Oxide-Ion Electrolytes. Annual Review of Materials Research, 2003, 33, 91-128.	4.3	616
26	Direct Cation- -Cation Interactions in Several Oxides. Physical Review, 1960, 117, 1442-1451.	2.7	559
27	Electronic and ionic transport properties and other physical aspects of perovskites. Reports on Progress in Physics, 2004, 67, 1915-1993.	8.1	552
28	Rhombohedral Prussian White as Cathode for Rechargeable Sodium-Ion Batteries. Journal of the American Chemical Society, 2015, 137, 2548-2554.	6.6	552
29	Mesoporous Titanium Nitrideâ€Enabled Highly Stable Lithiumâ€Sulfur Batteries. Advanced Materials, 2016, 28, 6926-6931.	11.1	544
30	Optimizing Li+ conductivity in a garnet framework. Journal of Materials Chemistry, 2012, 22, 15357.	6.7	538
31	Superior Perovskite Oxideâ€Ion Conductor; Strontiumâ€•and Magnesiumâ€Doped LaGaO₃: I, Phase Relationships and Electrical Properties. Journal of the American Ceramic Society, 1998, 81, 2565-2575.	1.9	506
32	A 3D Nanostructured Hydrogelâ€Frameworkâ€Derived Highâ€Performance Composite Polymer Lithiumâ€Ion Electrolyte. Angewandte Chemie - International Edition, 2018, 57, 2096-2100.	7.2	484
33	Electron-doped superconductivity at 40 K in the infinite-layer compound Sr1â€“yNdyCu02. Nature, 1991, 351, 549-551.	13.7	456
34	Electrochemistry and photoelectrochemistry of iron(III) oxide. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 2027.	1.0	453
35	Energy storage materials: A perspective. Energy Storage Materials, 2015, 1, 158-161.	9.5	453
36	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 753-756.	7.2	449

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37	Low-Cost High-Energy Potassium Cathode. Journal of the American Chemical Society, 2017, 139, 2164-2167.	6.6	446
38	Photocatalytic CO₂ Reduction by Carbon-Coated Indium-Oxide Nanobelts. Journal of the American Chemical Society, 2017, 139, 4123-4129.	6.6	434
39	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. Journal of the American Chemical Society, 2018, 140, 6448-6455.	6.6	427
40	Hollow Carbon-Nanotube/Carbon-Nanofiber Hybrid Anodes for Li-Ion Batteries. Journal of the American Chemical Society, 2013, 135, 16280-16283.	6.6	426
41	A Solution-Phase Bifunctional Catalyst for Lithiumâ€"Oxygen Batteries. Journal of the American Chemical Society, 2014, 136, 8941-8946.	6.6	409
42	Exception handling. Communications of the ACM, 1975, 18, 683-696.	3.3	408
43	Magnetic Properties of SrRuO3 and CaRuO3. Journal of Applied Physics, 1968, 39, 1327-1328.	1.1	407
44	Subzeroâ€Temperature Cathode for a Sodiumâ€Ion Battery. Advanced Materials, 2016, 28, 7243-7248.	11.1	406
45	How we made the Li-ion rechargeable battery. Nature Electronics, 2018, 1, 204-204.	13.1	400
46	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. Chemical Society Reviews, 2015, 44, 7968-7996.	18.7	388
47	Alternative anode materials for solid oxide fuel cells. Journal of Power Sources, 2007, 173, 1-10.	4.0	379
48	Electrochemical Nature of the Cathode Interface for a Solid-State Lithium-Ion Battery: Interface between LiCoO₂ and Garnet-Li₇La₃Zr₂O₁₂. Chemistry of Materials, 2016, 28, 8051-8059.	3.2	373
49	Ni₃Feâ€N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. Advanced Energy Materials, 2017, 7, 1601172.	10.2	369
50	New Anode Framework for Rechargeable Lithium Batteries. Chemistry of Materials, 2011, 23, 2027-2029.	3.2	360
51	Ion-Catalyzed Synthesis of Microporous Hard Carbon Embedded with Expanded Nanographite for Enhanced Lithium/Sodium Storage. Journal of the American Chemical Society, 2016, 138, 14915-14922.	6.6	360
52	High-Rate LiFePO₄ Lithium Rechargeable Battery Promoted by Electrochemically Active Polymers. Chemistry of Materials, 2008, 20, 7237-7241.	3.2	346
53	Estimating Hybridization of Transition Metal and Oxygen States in Perovskites from O <i>K</i>-edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 1856-1863.	1.5	339
54	Mapping of Transition Metal Redox Energies in Phosphates with NASICON Structure by Lithium Intercalation. Journal of the Electrochemical Society, 1997, 144, 2581-2586.	1.3	338

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55	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. Science, 2020, 370, 192-197.	6.0	336
56	Rechargeable Sodium All-Solid-State Battery. ACS Central Science, 2017, 3, 52-57.	5.3	332
57	Doubleâ€Layer Polymer Electrolyte for Highâ€Voltage Allâ€Solidâ€State Rechargeable Batteries. Advanced Materials, 2019, 31, e1805574.	11.1	321
58	AC Impedance Analysis of Polycrystalline Insertion Electrodes: Application to Li1â€‰âˆ’â€‰x CoO2. Journal of the Electrochemical Society, 1985, 132, 1521-1528.	1.3	312
59	A long-life lithium-ion battery with a highly porous TiNb₂O₇ anode for large-scale electrical energy storage. Energy and Environmental Science, 2014, 7, 2220-2226.	15.6	312
60	Rechargeable batteries: challenges old and new. Journal of Solid State Electrochemistry, 2012, 16, 2019-2029.	1.2	310
61	Lithium anode stable in air for low-cost fabrication of a dendrite-free lithium battery. Nature Communications, 2019, 10, 900.	5.8	297
62	Role of Oxygen Vacancies on the Performance of Li[Ni_{0.5â€“<i>x</i>}Mn_{1.5+<i>x</i>}]O₄ (<i>x</i> = 0, 0.05, and 0.08) Spinel Cathodes for Lithium-Ion Batteries. Chemistry of Materials, 2012, 24, 3101-3109.	3.2	283
63	Li₃N-Modified Garnet Electrolyte for All-Solid-State Lithium Metal Batteries Operated at 40 Â°C. Nano Letters, 2018, 18, 7414-7418.	4.5	270
64	Oxide-ion conductors by design. Nature, 2000, 404, 821-823.	13.7	269
65	Toward a theory of test data selection. IEEE Transactions on Software Engineering, 1975, SE-1, 156-173.	4.3	265
66	A Theory of Domain Creation and Coercive Force in Polycrystalline Ferromagnetics. Physical Review, 1954, 95, 917-932.	2.7	264
67	A Localizedâ€Electron to Collectiveâ€Electron Transition in the System (La, Sr)CoO3. Journal of Applied Physics, 1968, 39, 1209-1210.	1.1	262
68	Chemical and Magnetic Characterization of Spinel Materials in the LiMn2O4â€“Li2Mn4O9â€“Li4Mn5O12System. Journal of Solid State Chemistry, 1996, 123, 255-266.	1.4	259
69	Covalency Criterion for Localized vs Collective Electrons in Oxides with the Perovskite Structure. Journal of Applied Physics, 1966, 37, 1415-1422.	1.1	257
70	Aqueous Cathode for Next-Generation Alkali-Ion Batteries. Journal of the American Chemical Society, 2011, 133, 5756-5759.	6.6	253
71	Thermodynamic Understanding of Li-Dendrite Formation. Joule, 2020, 4, 1864-1879.	11.7	252
72	Exploring Indiumâ€Based Ternary Thiospinel as Conceivable Highâ€Potential Airâ€Cathode for Rechargeable Znâ€“Air Batteries. Advanced Energy Materials, 2018, 8, 1802263.	10.2	248

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73	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 4131-4137.	7.2	242
74	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. Nano Letters, 2016, 16, 6516-6522.	4.5	241
75	Synthesis and Electrical Properties of Dense Ce_{0.9}Gd_{0.1}O_{1.95} Ceramics. Journal of the American Ceramic Society, 1998, 81, 357-362.	1.9	240
76	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13313-13317.	3.3	237
77	An Aqueous Symmetric Sodiumâ€Ion Battery with NASICONâ€Structured Na₃MnTi(PO₄)₃. Angewandte Chemie - International Edition, 2016, 55, 12768-12772.	7.2	236
78	Liquid Kâ€"Na Alloy Anode Enables Dendriteâ€Free Potassium Batteries. Advanced Materials, 2016, 28, 9608-9612.	11.1	235
79	JAHN-TELLER PHENOMENA IN SOLIDS. Annual Review of Materials Research, 1998, 28, 1-27.	5.5	230
80	Na_{<i>x</i>}MV(PO₄)₃ (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. Nano Letters, 2016, 16, 7836-7841.	4.5	229
81	Alternative strategy for a safe rechargeable battery. Energy and Environmental Science, 2017, 10, 331-336.	15.6	228
82	Electronic, Optical, and Magnetic Properties of LiFePO4:Â Small Magnetic Polaron Effects. Chemistry of Materials, 2007, 19, 3740-3747.	3.2	225
83	Double-Perovskite Anode Materials Sr₂MMoO₆ (M = Co, Ni) for Solid Oxide Fuel Cells. Chemistry of Materials, 2009, 21, 2319-2326.	3.2	218
84	CoMn2O4 Spinel Nanoparticles Grown on Graphene as Bifunctional Catalyst for Lithium-Air Batteries. Journal of the Electrochemical Society, 2011, 158, A1379.	1.3	218
85	Hierarchically mesoporous nickel-iron nitride as a cost-efficient and highly durable electrocatalyst for Zn-air battery. Nano Energy, 2017, 39, 77-85.	8.2	216
86	Effects of Pressure on the Magnetic Properties of MnAs. Physical Review, 1969, 177, 942-951.	2.7	214
87	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 18815-18821.	3.3	213
88	Reviewâ€"Solid Electrolytes in Rechargeable Electrochemical Cells. Journal of the Electrochemical Society, 2015, 162, A2387-A2392.	1.3	206
89	Lithium Distribution in Aluminum-Free Cubic Li₇La₃Zr₂O₁₂. Chemistry of Materials, 2011, 23, 3587-3589.	3.2	205
90	A Highâ€Energyâ€Density Potassium Battery with a Polymerâ€Gel Electrolyte and a Polyaniline Cathode. Angewandte Chemie - International Edition, 2018, 57, 5449-5453.	7.2	205

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91	Interfacial Chemistry Enables Stable Cycling of All-Solid-State Li Metal Batteries at High Current Densities. Journal of the American Chemical Society, 2021, 143, 6542-6550.	6.6	200
92	Cathode materials: A personal perspective. Journal of Power Sources, 2007, 174, 996-1000.	4.0	199
93	Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable Znâ€“Air Batteries. , 2019, 1, 123-131.		199
94	Fast Li⁺ Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. Journal of the American Chemical Society, 2020, 142, 2497-2505.	6.6	199
95	3-V Full Cell Performance of Anode Framework TiNb₂O₇/Spinel LiNi_{0.5}Mn_{1.5}O₄. Chemistry of Materials, 2011, 23, 3404-3407.	3.2	198
96	Complex vs Band Formation in Perovskite Oxides. Journal of Applied Physics, 1965, 36, 1031-1032.	1.1	197
97	Surface protonation and electrochemical activity of oxides in aqueous solution. Journal of the American Chemical Society, 1990, 112, 2076-2082.	6.6	197
98	Chemical modification of a titanium (IV) oxide electrode to give stable dye sensitisation without a supersensitiser. Nature, 1979, 280, 571-573.	13.7	195
99	Spinel materials for high-voltage cathodes in Li-ion batteries. RSC Advances, 2014, 4, 154-167.	1.7	195
100	Stabilizing a High-Energy-Density Rechargeable Sodium Battery with a Solid Electrolyte. CheM, 2018, 4, 833-844.	5.8	195
101	Na₃MnZr(PO₄)₃: A High-Voltage Cathode for Sodium Batteries. Journal of the American Chemical Society, 2018, 140, 18192-18199.	6.6	195
102	Trapping lithium polysulfides of a Liâ€“S battery by forming lithium bonds in a polymer matrix. Energy and Environmental Science, 2015, 8, 2389-2395.	15.6	194
103	Fluorineâ€Doped Antiperovskite Electrolyte for Allâ€Solidâ€State Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 9965-9968.	7.2	192
104	Dendriteâ€Suppressed Lithium Plating from a Liquid Electrolyte via Wetting of Li₃N. Advanced Energy Materials, 2017, 7, 1700732.	10.2	190
105	Increasing Power Density of LSGM-Based Solid Oxide Fuel Cells Using New Anode Materials. Journal of the Electrochemical Society, 2001, 148, A788.	1.3	189
106	A high-performance all-metallocene-based, non-aqueous redox flow battery. Energy and Environmental Science, 2017, 10, 491-497.	15.6	189
107	Energy bands in TX2 compounds with pyrite, marcasite, and arsenopyrite structures. Journal of Solid State Chemistry, 1972, 5, 144-152.	1.4	188
108	Tuning the Position of the Redox Couples in Materials with NASICON Structure by Anionic Substitution. Journal of the Electrochemical Society, 1998, 145, 1518-1520.	1.3	186

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109	Electronic structure of CMR manganites (invited). Journal of Applied Physics, 1997, 81, 5330-5335.	1.1	185
110	Linear temperature dependence of resistivity and change in the Fermi surface at the pseudogap critical point ofÂaÂhigh-Tc superconductor. Nature Physics, 2009, 5, 31-34.	6.5	185
111	Unusual Evolution of the Magnetic Interactions versus Structural Distortions inRMnO3Perovskites. Physical Review Letters, 2006, 96, 247202.	2.9	184
112	The metal-to-semiconductor transition in ternary ruthenium (IV) oxides: a study by electron spectroscopy. Journal of Physics C: Solid State Physics, 1983, 16, 6221-6239.	1.5	182
113	Li₃N as a Cathode Additive for Highâ€Energyâ€Density Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502534.	10.2	182
114	Impurity levels of iron-group ions in TiO2(II). Journal of Physics and Chemistry of Solids, 1979, 40, 1129-1140.	1.9	177
115	Bond-length fluctuations and the spin-state transition inLCoO3(L=La,Pr, and Nd). Physical Review B, 2004, 69, .	1.1	177
116	Synthesis and Characterization of Sr[sub 2]MgMoO[sub 6âˆ’Î´]. Journal of the Electrochemical Society, 2006, 153, A1266.	1.3	177
117	Narrow-band electrons in transition-metal oxides. European Physical Journal D, 1967, 17, 304-336.	0.4	176
118	Sol-Gel Synthesis of a New Oxide-Ion Conductor Sr- and Mg-Doped LaGaO3 Perovskite. Journal of the American Ceramic Society, 1996, 79, 1100-1104.	1.9	176
119	Nanocolumnar Germanium Thin Films as a High-Rate Sodium-Ion Battery Anode Material. Journal of Physical Chemistry C, 2013, 117, 18885-18890.	1.5	175
120	Exploring reversible oxidation of oxygen in a manganese oxide. Energy and Environmental Science, 2016, 9, 2575-2577.	15.6	175
121	Ni₃FeNâ€Supported Fe₃Pt Intermetallic Nanoalloy as a Highâ€Performance Bifunctional Catalyst for Metalâ€"Air Batteries. Angewandte Chemie - International Edition, 2017, 56, 9901-9905.	7.2	175
122	Domainâ€Wall Structure in Permalloy Films. Journal of Applied Physics, 1958, 29, 294-295.	1.1	174
123	Reduction Fe[sup 3+] of Impurities in LiFePO[sub 4] from Pyrolysis of Organic Precursor Used for Carbon Deposition. Journal of the Electrochemical Society, 2006, 153, A1692.	1.3	174
124	Eldfellite, NaFe(SO₄)₂: an intercalation cathode host for low-cost Na-ion batteries. Energy and Environmental Science, 2015, 8, 3000-3005.	15.6	174
125	Snâ€"Cu Nanocomposite Anodes for Rechargeable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 8273-8277.	4.0	173
126	High-pressure synthesis of the cubic perovskite BaRuO ₃ and evolution of ferromagnetism in ARuO ₃ (A = Ca, Sr, Ba) ruthenates. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7115-7119.	3.3	171

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127	Electrode Performance Test on Single Ceramic Fuel Cells Using as Electrolyte Srâ€•and Mgâ€Doped LaGaO3. Journal of the Electrochemical Society, 1997, 144, 3620-3624.	1.3	169
128	Hexagonal versus perovskite phase of manganiteRMnO3(R=Y,Ho,Er,Tm,Yb,Lu). Physical Review B, 2006, 74, .	1.1	167
129	Improving Lithium Batteries by Tethering Carbon-Coated LiFePO[sub 4] to Polypyrrole. Journal of the Electrochemical Society, 2006, 153, A2282.	1.3	167
130	Superior Perovskite Oxideâ€Ion Conductor; Strontiumâ€•and Magnesiumâ€Doped LaGaO₃: III, Performance Tests of Single Ceramic Fuel Cells. Journal of the American Ceramic Society, 1998, 81, 2581-2585.	1.9	163
131	Cellulose-Based Porous Membrane for Suppressing Li Dendrite Formation in Lithiumâ€"Sulfur Battery. ACS Energy Letters, 2016, 1, 633-637.	8.8	160
132	A Plasticâ€"Crystal Electrolyte Interphase for Allâ€Solidâ€State Sodium Batteries. Angewandte Chemie - International Edition, 2017, 56, 5541-5545.	7.2	160
133	Toward a theory of test data selection. ACM SIGPLAN Notices, 1975, 10, 493-510.	0.2	159
134	The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001.	1.3	158
135	Sodium Extraction from NASICON-Structured Na₃MnTi(PO₄)₃ through Mn(III)/Mn(II) and Mn(IV)/Mn(III) Redox Couples. Chemistry of Materials, 2016, 28, 6553-6559.	3.2	156
136	Pressure-Induced Polaronic to Itinerant Electronic Transition inLa1â^'xSrxMnO3Crystals. Physical Review Letters, 1997, 79, 3234-3237.	2.9	155
137	Reduction of the bulk modulus at high pressureÂinÂCrN. Nature Materials, 2009, 8, 947-951.	13.3	154
138	Localized versus CollectivedElectrons and NÃ©el Temperatures in Perovskite and Perovskite-Related Structures. Physical Review, 1967, 164, 785-789.	2.7	153
139	New forms of phase segregation. Nature, 1997, 386, 229-230.	13.7	153
140	Band Structure of Transition Metals and Their Alloys. Physical Review, 1960, 120, 67-83.	2.7	152
141	Stabilizing Nanostructured Solid Oxide Fuel Cell Cathode with Atomic Layer Deposition. Nano Letters, 2013, 13, 4340-4345.	4.5	149
142	Enhanced Cycling Stability of Hybrid Liâ€"Air Batteries Enabled by Ordered Pd₃Fe Intermetallic Electrocatalyst. Journal of the American Chemical Society, 2015, 137, 7278-7281.	6.6	149
143	High-Pressure Study of the First-Order Phase Transition in MnAs. Physical Review, 1967, 157, 389-395.	2.7	147
144	A Selfâ€Healing Roomâ€Temperature Liquidâ€Metal Anode for Alkaliâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1804649.	7.8	147

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145	Characterization of Srâ€Doped LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic Fuel Cell. Journal of the Electrochemical Society, 1996, 143, 3630-3636.	1.3	146
146	Transport and Magnetic Properties of the Perovskites La1-yMnO3and LaMn1-zO3. Chemistry of Materials, 1997, 9, 1467-1474.	3.2	146
147	Magnetic Materials for Digitalâ€Computer Components. I. A Theory of Flux Reversal in Polycrystalline Ferromagnetics. Journal of Applied Physics, 1955, 26, 8-18.	1.1	145
148	A Composite Gelâ€"Polymer/Glassâ€"Fiber Electrolyte for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1402235.	10.2	145
149	Robust N-doped carbon aerogels strongly coupled with ironâ€"cobalt particles as efficient bifunctional catalysts for rechargeable Znâ€"air batteries. Nanoscale, 2018, 10, 19937-19944.	2.8	144
150	Ionic distribution and conductivity in lithium garnet Li7La3Zr2O12. Journal of Power Sources, 2012, 209, 278-281.	4.0	141
151	The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. Nano Letters, 2016, 16, 4560-4568.	4.5	140
152	Chemical and structural relationships in high-Tcmaterials. Superconductor Science and Technology, 1990, 3, 26-37.	1.8	139
153	Ferromagnetism inLaCoO3. Physical Review B, 2004, 70, .	1.1	138
154	Graphiticâ€Shell Encapsulation of Metal Electrocatalysts for Oxygen Evolution, Oxygen Reduction, and Hydrogen Evolution in Alkaline Solution. Advanced Energy Materials, 2020, 10, 1903215.	10.2	138
155	A novel solid oxide redox flow battery for grid energy storage. Energy and Environmental Science, 2011, 4, 4942.	15.6	137
156	A reversible Br₂/Br^{â^'} redox couple in the aqueous phase as a high-performance catholyte for alkali-ion batteries. Energy and Environmental Science, 2014, 7, 1990-1995.	15.6	137
157	Fiberâ€inâ€Tube Design of Co₉S₈â€Carbon/Co₉S₈: Enabling Efficient Sodium Storage. Angewandte Chemie - International Edition, 2019, 58, 6239-6243.	7.2	137
158	Synthesis and electrochemical characterization of multi-cations doped spinel LiMn2O4 used for lithium ion batteries. Journal of Power Sources, 2012, 199, 214-219.	4.0	135
159	Sign Reversal of the Mn-O Bond Compressibility in La1.2Sr1.8Mn2O7belowTC: Exchange Striction in the Ferromagnetic State. Physical Review Letters, 1997, 78, 1568-1571.	2.9	134
160	Intrinsic structural distortion in orthorhombic perovskite oxides. Physical Review B, 2008, 77, .	1.1	133
161	High-Pressure Sequence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>NiSb</mml:mi><mm mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:math>Structural Phases: New<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:math>Quantum Spin Liquids Based on<mml:math xmlns:. Physical Review Letters, 2011, 107, 197204.	2.9	133
162	Sustainable Electrical Energy Storage through the Ferrocene/Ferrocenium Redox Reaction in Aprotic Electrolyte. Angewandte Chemie - International Edition, 2014, 53, 11036-11040.	7.2	133

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