John B. Goodenough

List of Publications by Citations

Source: https://exaly.com/author-pdf/2083897/john-b-goodenough-publications-by-citations.pdf

Version: 2024-04-10

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.

645 papers

85,063 citations

131 h-index 277 g-index

670 ext. papers

95,172 ext. citations

9.3 avg, IF

8.76 L-index

#	Paper	IF	Citations
645	Challenges for Rechargeable Li Batteries. <i>Chemistry of Materials</i> , 2010 , 22, 587-603	9.6	7303
644	Phospho-olivines as Positive-Electrode Materials for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 1188-1194	3.9	6061
643	The Li-ion rechargeable battery: a perspective. <i>Journal of the American Chemical Society</i> , 2013 , 135, 116	57±7664	5747
642	A perovskite oxide optimized for oxygen evolution catalysis from molecular orbital principles. <i>Science</i> , 2011 , 334, 1383-5	33.3	3392
641	Theory of the Role of Covalence in the Perovskite-Type Manganites [La, M(II)]MnO3. <i>Physical Review</i> , 1955 , 100, 564-573		3162
640	Design principles for oxygen-reduction activity on perovskite oxide catalysts for fuel cells and metal-air batteries. <i>Nature Chemistry</i> , 2011 , 3, 546-50	17.6	1940
639	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019 , 4, 180-18	6 62.3	1202
638	The two components of the crystallographic transition in VO2. <i>Journal of Solid State Chemistry</i> , 1971 , 3, 490-500	3.3	1052
637	Effect of Structure on the Fe3 + / Fe2 + Redox Couple in Iron Phosphates. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 1609-1613	3.9	1030
636	Development and challenges of LiFePO4 cathode material for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 269-284	35.4	898
635	X-ray photoemission spectroscopy studies of Sn-doped indium-oxide films. <i>Journal of Applied Physics</i> , 1977 , 48, 3524-3531	2.5	879
634	Double perovskites as anode materials for solid-oxide fuel cells. <i>Science</i> , 2006 , 312, 254-7	33.3	827
633	First-Order Localized-Electron ? Collective-Electron Transition in LaCoO3. <i>Physical Review</i> , 1967 , 155, 932-943		778
632	Prussian blue: a new framework of electrode materials for sodium batteries. <i>Chemical Communications</i> , 2012 , 48, 6544-6	5.8	758
631	PEO/garnet composite electrolytes for solid-state lithium batteries: From Beramic-in-polymerIto Bolymer-in-ceramic[] <i>Nano Energy</i> , 2018 , 46, 176-184	17.1	672
630	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. Journal of the American Chemical Society, 2016 , 138, 9385-8	16.4	662
629	Relationship Between Crystal Symmetry and Magnetic Properties of Ionic Compounds Containing Mn3+. <i>Physical Review</i> , 1961 , 124, 373-384		628

(2017-2014)

628	Electrochemical energy storage in a sustainable modern society. <i>Energy and Environmental Science</i> , 2014 , 7, 14-18	35.4	601
627	A superior low-cost cathode for a Na-ion battery. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1964-7	16.4	586
626	Monodisperse porous LiFePO4 microspheres for a high power Li-ion battery cathode. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2132-5	16.4	567
625	Theory of Ionic Ordering, Crystal Distortion, and Magnetic Exchange Due to Covalent Forces in Spinels. <i>Physical Review</i> , 1955 , 98, 391-408		567
624	Evolution of strategies for modern rechargeable batteries. <i>Accounts of Chemical Research</i> , 2013 , 46, 105	3-463	556
623	Oxide-Ion Electrolytes. <i>Annual Review of Materials Research</i> , 2003 , 33, 91-128	12.8	534
622	Contextual correlates of synonymy. <i>Communications of the ACM</i> , 1965 , 8, 627-633	2.5	515
621	Direct CationCation Interactions in Several Oxides. <i>Physical Review</i> , 1960 , 117, 1442-1451		511
620	Electronic and ionic transport properties and other physical aspects of perovskites. <i>Reports on Progress in Physics</i> , 2004 , 67, 1915-1993	14.4	483
619	Mesoporous Titanium Nitride-Enabled Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016 , 28, 6926-31	24	459
618	Removal of interstitial H2O in hexacyanometallates for a superior cathode of a sodium-ion battery. Journal of the American Chemical Society, 2015 , 137, 2658-64	16.4	458
617	Electrochemistry and photoelectrochemistry of iron(III) oxide. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1983 , 79, 2027		424
616	Rhombohedral prussian white as cathode for rechargeable sodium-ion batteries. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2548-54	16.4	415
615	Electron-doped superconductivity at 40 K in the infinite-layer compound Sr1¬NdyCu02. <i>Nature</i> , 1991 , 351, 549-551	50.4	414
614	Optimizing Li+ conductivity in a garnet framework. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15357		409
613	Superior Perovskite Oxide-Ion Conductor; Strontium- and Magnesium-Doped LaGaO3: I, Phase Relationships and Electrical Properties. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2565-2575	3.8	381
612	Hollow carbon-nanotube/carbon-nanofiber hybrid anodes for Li-ion batteries. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16280-3	16.4	367
611	Low-Cost High-Energy Potassium Cathode. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2164-216	5 8.4	366

610	Magnetic Properties of SrRuO3 and CaRuO3. Journal of Applied Physics, 1968, 39, 1327-1328	2.5	366
609	A solution-phase bifunctional catalyst for lithium-oxygen batteries. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8941-6	16.4	356
608	Energy storage materials: A perspective. <i>Energy Storage Materials</i> , 2015 , 1, 158-161	19.4	343
607	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 753-756	16.4	341
606	Alternative anode materials for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007 , 173, 1-10	8.9	335
605	Exception handling. Communications of the ACM, 1975, 18, 683-696	2.5	326
604	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2096-2100	16.4	325
603	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. <i>Chemical Society Reviews</i> , 2015 , 44, 7968-96	58.5	322
602	High-Rate LiFePO4 Lithium Rechargeable Battery Promoted by Electrochemically Active Polymers. <i>Chemistry of Materials</i> , 2008 , 20, 7237-7241	9.6	313
601	Ni3Fe-N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601172	21.8	305
600	Mapping of Transition Metal Redox Energies in Phosphates with NASICON Structure by Lithium Intercalation. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2581-2586	3.9	299
599	Subzero-Temperature Cathode for a Sodium-Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 7243-8	24	299
598	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6448-6455	16.4	295
597	Photocatalytic CO Reduction by Carbon-Coated Indium-Oxide Nanobelts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4123-4129	16.4	291
596	New Anode Framework for Rechargeable Lithium Batteries. <i>Chemistry of Materials</i> , 2011 , 23, 2027-2029	9.6	280
595	Electrochemical Nature of the Cathode Interface for a Solid-State Lithium-Ion Battery: Interface between LiCoO2 and Garnet-Li7La3Zr2O12. <i>Chemistry of Materials</i> , 2016 , 28, 8051-8059	9.6	272
594	Ion-Catalyzed Synthesis of Microporous Hard Carbon Embedded with Expanded Nanographite for Enhanced Lithium/Sodium Storage. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14915-14922	16.4	267
593	Rechargeable batteries: challenges old and new. Journal of Solid State Electrochemistry, 2012, 16, 2019-	2 <u>0</u> 89	262

(2019-1985)

592	AC Impedance Analysis of Polycrystalline Insertion Electrodes: Application to Li1 িk CoO2. <i>Journal of the Electrochemical Society</i> , 1985 , 132, 1521-1528	3.9	258	
591	A long-life lithium-ion battery with a highly porous TiNb2O7 anode for large-scale electrical energy storage. <i>Energy and Environmental Science</i> , 2014 , 7, 2220-2226	35.4	257	
590	Estimating Hybridization of Transition Metal and Oxygen States in Perovskites from O K-edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1856-1863	3.8	244	
589	A Localized-Electron to Collective-Electron Transition in the System (La, Sr)CoO3. <i>Journal of Applied Physics</i> , 1968 , 39, 1209-1210	2.5	243	
588	Rechargeable Sodium All-Solid-State Battery. ACS Central Science, 2017, 3, 52-57	16.8	240	
587	Covalency Criterion for Localized vs Collective Electrons in Oxides with the Perovskite Structure. <i>Journal of Applied Physics</i> , 1966 , 37, 1415-1422	2.5	236	
586	A Theory of Domain Creation and Coercive Force in Polycrystalline Ferromagnetics. <i>Physical Review</i> , 1954 , 95, 917-932		233	
585	Role of Oxygen Vacancies on the Performance of Li[Ni0.5 $\mbox{$\mathbb{N}$}$ Mn1.5+x]O4 (x = 0, 0.05, and 0.08) Spinel Cathodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2012 , 24, 3101-3109	9.6	232	
584	Toward a theory of test data selection. <i>IEEE Transactions on Software Engineering</i> , 1975 , SE-1, 156-173	3.5	225	
583	Oxide-ion conductors by design. <i>Nature</i> , 2000 , 404, 821, 823	50.4	212	
582	Aqueous cathode for next-generation alkali-ion batteries. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5756-9	16.4	211	
581	CoMn2O4 Spinel Nanoparticles Grown on Graphene as Bifunctional Catalyst for Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1379	3.9	2 10	
580	Chemical and Magnetic Characterization of Spinel Materials in the LiMn2O4[li2Mn4O9[li4Mn5O12System. <i>Journal of Solid State Chemistry</i> , 1996 , 123, 255-266	3.3	207	
579	Effects of Pressure on the Magnetic Properties of MnAs. <i>Physical Review</i> , 1969 , 177, 942-951		205	
578	Lithium anode stable in air for low-cost fabrication of a dendrite-free lithium battery. <i>Nature Communications</i> , 2019 , 10, 900	17.4	203	
577	Synthesis and Electrical Properties of Dense Ce0.9Gd0.1O1.95 Ceramics. Journal of the American	3.8	197	
311	Ceramic Society, 2005 , 81, 357-362			
576	JAHN-TELLER PHENOMENA IN SOLIDS. <i>Annual Review of Materials Research</i> , 1998 , 28, 1-27		196	

574	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13313-13317	11.5	193
573	Electronic, Optical, and Magnetic Properties of LiFePO4: Small Magnetic Polaron Effects. <i>Chemistry of Materials</i> , 2007 , 19, 3740-3747	9.6	193
572	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. <i>Nano Letters</i> , 2016 , 16, 6516-6522	11.5	192
571	Double-Perovskite Anode Materials Sr2MMoO6 (M = Co, Ni) for Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2009 , 21, 2319-2326	9.6	189
570	Alternative strategy for a safe rechargeable battery. Energy and Environmental Science, 2017, 10, 331-3	36 5.4	181
569	Liquid K-Na Alloy Anode Enables Dendrite-Free Potassium Batteries. <i>Advanced Materials</i> , 2016 , 28, 960	8 -24 612	179
568	An Aqueous Symmetric Sodium-Ion Battery with NASICON-Structured Na3 MnTi(PO4)3. Angewandte Chemie - International Edition, 2016 , 55, 12768-72	16.4	176
567	Complex vs Band Formation in Perovskite Oxides. <i>Journal of Applied Physics</i> , 1965 , 36, 1031-1032	2.5	175
566	Hierarchically mesoporous nickel-iron nitride as a cost-efficient and highly durable electrocatalyst for Zn-air battery. <i>Nano Energy</i> , 2017 , 39, 77-85	17.1	172
565	Chemical modification of a titanium (IV) oxide electrode to give stable dye sensitisation without a supersensitiser. <i>Nature</i> , 1979 , 280, 571-573	50.4	171
564	Trapping lithium polysulfides of a LiB battery by forming lithium bonds in a polymer matrix. <i>Energy and Environmental Science</i> , 2015 , 8, 2389-2395	35.4	170
563	ReviewBolid Electrolytes in Rechargeable Electrochemical Cells. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2387-A2392	3.9	170
562	Cathode materials: A personal perspective. <i>Journal of Power Sources</i> , 2007 , 174, 996-1000	8.9	170
561	Unusual evolution of the magnetic interactions versus structural distortions in RMnO3 perovskites. <i>Physical Review Letters</i> , 2006 , 96, 247202	7.4	170
560	Increasing Power Density of LSGM-Based Solid Oxide Fuel Cells Using New Anode Materials. Journal of the Electrochemical Society, 2001 , 148, A788	3.9	170
559	Electronic structure of CMR manganites (invited). <i>Journal of Applied Physics</i> , 1997 , 81, 5330-5335	2.5	168
558	The metal-to-semiconductor transition in ternary ruthenium (IV) oxides: a study by electron spectroscopy. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 6221-6239		168
557	Bond-length fluctuations and the spin-state transition in LCoO3 (L=La, Pr, and Nd). <i>Physical Review B</i> , 2004 , 69,	3.3	164

(2009-2018)

556	Exploring Indium-Based Ternary Thiospinel as Conceivable High-Potential Air-Cathode for Rechargeable ZnAir Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802263	21.8	164	
555	Surface protonation and electrochemical activity of oxides in aqueous solution. <i>Journal of the American Chemical Society</i> , 1990 , 112, 2076-2082	16.4	163	
554	3-V Full Cell Performance of Anode Framework TiNb2O7/Spinel LiNi0.5Mn1.5O4. <i>Chemistry of Materials</i> , 2011 , 23, 3404-3407	9.6	162	
553	Synthesis and Characterization of Sr[sub 2]MgMoO[sub 6¶ <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1266	3.9	162	
552	Tuning the Position of the Redox Couples in Materials with NASICON Structure by Anionic Substitution. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 1518-1520	3.9	162	
551	Narrow-band electrons in transition-metal oxides. European Physical Journal D, 1967, 17, 304-336		162	
550	Lithium Distribution in Aluminum-Free Cubic Li7La3Zr2O12. <i>Chemistry of Materials</i> , 2011 , 23, 3587-3589	9.6	160	
549	Reduction Fe3+ of Impurities in LiFePO4 from Pyrolysis of Organic Precursor Used for Carbon Deposition. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1692	3.9	160	
548	LiN-Modified Garnet Electrolyte for All-Solid-State Lithium Metal Batteries Operated at 40 °C. <i>Nano Letters</i> , 2018 , 18, 7414-7418	11.5	160	
547	Energy bands in TX2 compounds with pyrite, marcasite, and arsenopyrite structures. <i>Journal of Solid State Chemistry</i> , 1972 , 5, 144-152	3.3	159	
546	Impurity levels of iron-group ions in TiO2(II). Journal of Physics and Chemistry of Solids, 1979, 40, 1129-1	1 <u>4</u> .6j	158	
545	Spinel materials for high-voltage cathodes in Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 154-167	3.7	156	
544	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. <i>Science</i> , 2020 , 370, 192-197	33.3	156	
543	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9965-8	16.4	155	
542	Sn-Cu nanocomposite anodes for rechargeable sodium-ion batteries. <i>ACS Applied Materials & amp; Interfaces</i> , 2013 , 5, 8273-7	9.5	155	
541	A high-performance all-metallocene-based, non-aqueous redox flow battery. <i>Energy and Environmental Science</i> , 2017 , 10, 491-497	35.4	155	
540	Improving Lithium Batteries by Tethering Carbon-Coated LiFePO[sub 4] to Polypyrrole. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A2282	3.9	152	
539	Linear temperature dependence of resistivity and change in the Fermi surface at the pseudogap critical point of a high-Tc superconductor. <i>Nature Physics</i> , 2009 , 5, 31-34	16.2	151	

538	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5449-5453	16.4	150
537	Nanocolumnar Germanium Thin Films as a High-Rate Sodium-Ion Battery Anode Material. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18885-18890	3.8	150
536	Pressure-Induced Polaronic to Itinerant Electronic Transition in La1\(\mathbb{B}\)SrxMnO3 Crystals. <i>Physical Review Letters</i> , 1997 , 79, 3234-3237	7.4	150
535	Domain-Wall Structure in Permalloy Films. <i>Journal of Applied Physics</i> , 1958 , 29, 294-295	2.5	150
534	NaMV(PO) (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. <i>Nano Letters</i> , 2016 , 16, 7836	6 <u>+718≠</u> 11	146
533	Stabilizing a High-Energy-Density Rechargeable Sodium Battery with a Solid Electrolyte. <i>CheM</i> , 2018 , 4, 833-844	16.2	144
532	Hexagonal versus perovskite phase of manganite RMnO3 (R=Y,Ho,Er,Tm,Yb,Lu). <i>Physical Review B</i> , 2006 , 74,	3.3	144
531	Localized versus Collective d Electrons and Nël Temperatures in Perovskite and Perovskite-Related Structures. <i>Physical Review</i> , 1967 , 164, 785-789		143
530	Sol-Gel Synthesis of a New Oxide-Ion Conductor Sr- and Mg-Doped LaGaO3 Perovskite. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1100-1104	3.8	141
529	Eldfellite, NaFe(SO4)2: an intercalation cathode host for low-cost Na-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 3000-3005	35.4	140
528	Band Structure of Transition Metals and Their Alloys. <i>Physical Review</i> , 1960 , 120, 67-83		140
5 2 7	Cellulose-Based Porous Membrane for Suppressing Li Dendrite Formation in LithiumBulfur Battery. <i>ACS Energy Letters</i> , 2016 , 1, 633-637	20.1	136
526	High-pressure synthesis of the cubic perovskite BaRuO3 and evolution of ferromagnetism in ARuO3 (A = Ca, Sr, Ba) ruthenates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7115-9	11.5	136
525	Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable ZnAir Batteries 2019 , 1, 123-131		135
524	Reduction of the bulk modulus at high pressure in CrN. <i>Nature Materials</i> , 2009 , 8, 947-51	27	135
523	Electrode Performance Test on Single Ceramic Fuel Cells Using as Electrolyte Sr- and Mg-Doped LaGaO3. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3620-3624	3.9	134
522	Transport and Magnetic Properties of the Perovskites La1-yMnO3 and LaMn1-zO3. <i>Chemistry of Materials</i> , 1997 , 9, 1467-1474	9.6	134
521	High-Pressure Study of the First-Order Phase Transition in MnAs. <i>Physical Review</i> , 1967 , 157, 389-395		134

(2009-2017)

5	52 0	Ni FeN-Supported Fe Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9901-9905	16.4	133	
5	519	Chemical and structural relationships in high-Tcmaterials. <i>Superconductor Science and Technology</i> , 1990 , 3, 26-37	3.1	133	
5	;18	Stabilizing nanostructured solid oxide fuel cell cathode with atomic layer deposition. <i>Nano Letters</i> , 2013 , 13, 4340-5	11.5	131	
5	517	Dendrite-Suppressed Lithium Plating from a Liquid Electrolyte via Wetting of Li3N. <i>Advanced Energy Materials</i> , 2017 , 7, 1700732	21.8	131	
5	516	Ferromagnetism in LaCoO3. <i>Physical Review B</i> , 2004 , 70,	3.3	129	
5	515	Enhanced cycling stability of hybrid Li-air batteries enabled by ordered Pd3Fe intermetallic electrocatalyst. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7278-81	16.4	128	
5	514	Superior Perovskite Oxide-Ion Conductor; Strontium- and Magnesium-Doped LaGaO3: III, Performance Tests of Single Ceramic Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2581	- 25 85	128	
5	513	Perovskite Sr0.95Ce0.05CoO3 l loaded with copper nanoparticles as a bifunctional catalyst for lithium-air batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18902		127	
5	512	Sign Reversal of the Mn-O Bond Compressibility in La1.2Sr1.8Mn2O7 below TC: Exchange Striction in the Ferromagnetic State. <i>Physical Review Letters</i> , 1997 , 78, 1568-1571	7.4	125	
5	511	Magnetic Materials for Digital-Computer Components. I. A Theory of Flux Reversal in Polycrystalline Ferromagnetics. <i>Journal of Applied Physics</i> , 1955 , 26, 8-18	2.5	125	
5	510	A novel solid oxide redox flow battery for grid energy storage. <i>Energy and Environmental Science</i> , 2011 , 4, 4942	35.4	124	
5	509	Hydrothermal synthesis and electrochemical properties of LiV(POMC-based composites for lithium-ion batteries. ACS Applied Materials & Interfaces, 2011, 3, 3772-6	9.5	122	
5	508	Ionic distribution and conductivity in lithium garnet Li7La3Zr2O12. <i>Journal of Power Sources</i> , 2012 , 209, 278-281	8.9	120	
5	507	A reversible Br2/BrIredox couple in the aqueous phase as a high-performance catholyte for alkali-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 1990-1995	35.4	119	
5	506	Sustainable electrical energy storage through the ferrocene/ferrocenium redox reaction in aprotic electrolyte. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11036-40	16.4	118	
5	505	A Plastic-Crystal Electrolyte Interphase for All-Solid-State Sodium Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5541-5545	16.4	117	
5	504	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene oxide). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1881.	5 ¹ 1882	1 ¹¹⁷	
5	503	Enhancement of the Nernst effect by stripe order in a high-T(c) superconductor. <i>Nature</i> , 2009 , 458, 743-	- 5 0.4	117	

502	The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. <i>Nano Letters</i> , 2016 , 16, 4560-8	11.5	117
501	Spin-Orbit-Coupling Effects in Transition-Metal Compounds. <i>Physical Review</i> , 1968 , 171, 466-479		116
500	Exploring reversible oxidation of oxygen in a manganese oxide. <i>Energy and Environmental Science</i> , 2016 , 9, 2575-2577	35.4	115
499	Rechargeable alkali-ion cathode-flow battery. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10113		115
498	Magnetic studies of some orthovanadates. <i>Physical Review B</i> , 1995 , 52, 324-334	3.3	115
497	Synthesis of the high-Tc superconductor YBa2Cu3O7IIn small particle size. <i>Nature</i> , 1987 , 329, 701-703	50.4	115
496	NaMnZr(PO): A High-Voltage Cathode for Sodium Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18192-18199	16.4	115
495	A Composite Gel P olymer/Glass E iber Electrolyte for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1402235	21.8	114
494	Intrinsic structural distortion in orthorhombic perovskite oxides. <i>Physical Review B</i> , 2008 , 77,	3.3	114
493	Lithium Insertion into Transition-Metal Monosulfides: Tuning the Position of the Metal 4s Band. Journal of Physical Chemistry C, 2008 , 112, 15060-15064	3.8	114
492	Enhanced Surface Interactions Enable Fast Li Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4131-4137	16.4	114
491	Dependence of Tc on hole concentration in the superconductors Bi4Sr3Ca3\(\mathbb{R}\)YxCu4O16+\(\mathbb{I}\)Applied <i>Physics Letters</i> , 1988 , 53, 420-422	3.4	111
490	Resistivity and Magnetic Order in Ti2O3. Journal of Applied Physics, 1968, 39, 594-595	2.5	111
489	High lithium ion conduction in garnet-type Li6La3ZrTaO12. <i>Electrochemistry Communications</i> , 2011 , 13, 1289-1292	5.1	110
488	Li2NaV2(PO4)3: A 3.7 V Lithium-Insertion Cathode with the Rhombohedral NASICON Structure. Journal of Solid State Chemistry, 2001 , 162, 176-181	3.3	110
487	The superconductor-semiconductor transition in the Li1+xTi2-xO4 spinel system. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1985 , 52, 679-699		110
486	Coexistence of localized and itinerant d electrons. <i>Materials Research Bulletin</i> , 1971 , 6, 967-976	5.1	110
485	Low-Cost Hollow Mesoporous Polymer Spheres and All-Solid-State Lithium, Sodium Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1501802	21.8	110

484	Pressure-induced high-spin to low-spin transition in CaFeO3. Physical Review Letters, 1991, 67, 3267-32	7 9 .4	109
483	Li3N as a Cathode Additive for High-Energy-Density Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502534	21.8	109
482	Synthesis and electrochemical characterization of multi-cations doped spinel LiMn2O4 used for lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 199, 214-219	8.9	108
481	Robust N-doped carbon aerogels strongly coupled with iron-cobalt particles as efficient bifunctional catalysts for rechargeable Zn-air batteries. <i>Nanoscale</i> , 2018 , 10, 19937-19944	7.7	108
480	Characterization of Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic Fuel Cell. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3630-3636	3.9	107
479	Hollow Nanotubes of N-Doped Carbon on CoS. Angewandte Chemie - International Edition, 2016, 55, 15	8 3 16.45	834 6
478	Interpretation of Domain Patterns Recently Found in BiMn and SiFe Alloys. <i>Physical Review</i> , 1956 , 102, 356-365		105
477	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. <i>Nano Letters</i> , 2015 , 15, 3398-402	11.5	104
476	High-pressure sequence of Ba3NiSb2O9 structural phases: new $S = 1$ quantum spin liquids based on Ni2+. <i>Physical Review Letters</i> , 2011 , 107, 197204	7.4	104
475	Oxide-ion conducting ceramics for solid oxide fuel cells. <i>Journal of Materials Science</i> , 2001 , 36, 1093-10	984.3	104
474	Na3V2O2(PO4)2F/graphene sandwich structure for high-performance cathode of a sodium-ion battery. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13032-7	3.6	103
473	Facile synthesis of monodisperse porous Co3O4 microspheres with superior ethanol sensing properties. <i>Chemical Communications</i> , 2011 , 47, 12852-4	5.8	103
472	A Sodium-Ion Battery with a Low-Cost Cross-Linked Gel-Polymer Electrolyte. <i>Advanced Energy Materials</i> , 2016 , 6, 1600467	21.8	101
471	Active LaNi1NFexO3 bifunctional catalysts for air cathodes in alkaline media. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9421-9426	13	98
470	Superior Perovskite Oxide-Ion Conductor; Strontium- and Magnesium-Doped LaGaO3: II, ac Impedance Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2576-2580	3.8	98
469	Advanced Electrodes for High Power Li-ion Batteries. <i>Materials</i> , 2013 , 6, 1028-1049	3.5	97
468	Universal octahedral-site distortion in orthorhombic perovskite oxides. <i>Physical Review Letters</i> , 2005 , 94, 065501	7.4	96
467	Copper oxide superconductors: A distinguishable thermodynamic state. <i>Physical Review B</i> , 1993 , 47, 52	.7 <u>5</u> . 5 28	8 6 96

466	Intrinsic structural distortion and superexchange interaction in the orthorhombic rare-earth perovskites RCrO3. <i>Physical Review B</i> , 2010 , 81,	3.3	94
465	Extrinsic giant magnetoresistance in chromium (IV) oxide, CrO2. <i>Applied Physics Letters</i> , 1998 , 72, 984-9	8 6 .4	94
464	Exploring the A+B5+O3 compounds. <i>Journal of Solid State Chemistry</i> , 1973 , 6, 493-501	3.3	92
463	Fast Li Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2497-2505	16.4	91
462	Thermodynamic Understanding of Li-Dendrite Formation. <i>Joule</i> , 2020 , 4, 1864-1879	27.8	90
461	Exceptional oxygen evolution reactivities on CaCoO and SrCoO. Science Advances, 2019, 5, eaav6262	14.3	89
460	Effect of Ball-Milling on 3-V Capacity of LithiumManganese Oxospinel Cathodes. <i>Chemistry of Materials</i> , 2001 , 13, 1758-1764	9.6	89
459	Fuel cells with doped lanthanum gallate electrolyte. Journal of Power Sources, 1996, 63, 47-51	8.9	89
458	A Self-Healing Room-Temperature Liquid-Metal Anode for Alkali-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1804649	15.6	89
457	Sodium Extraction from NASICON-Structured Na3MnTi(PO4)3 through Mn(III)/Mn(II) and Mn(IV)/Mn(III) Redox Couples. <i>Chemistry of Materials</i> , 2016 , 28, 6553-6559	9.6	88
456	Sulfur encapsulated in porous hollow CNTs@CNFs for high-performance lithiumBulfur batteries. Journal of Materials Chemistry A, 2014 , 2, 10126-10130	13	87
455	Electrochemistry of ruthenates. Part 1. Dxygen reduction on pyrochlore ruthenates. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1983 , 79, 893		86
454	Some Magnetic and Crystallographic Properties of the System LaMn1NixO3+Dournal of Applied Physics, 1958 , 29, 387-389	2.5	86
453	Graphitic-Shell Encapsulation of Metal Electrocatalysts for Oxygen Evolution, Oxygen Reduction, and Hydrogen Evolution in Alkaline Solution. <i>Advanced Energy Materials</i> , 2020 , 10, 1903215	21.8	86
452	Fiber-in-Tube Design of Co S -Carbon/Co S : Enabling Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6239-6243	16.4	85
451	Polar polymerBolvent interaction derived favorable interphase for stable lithium metal batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 3319-3327	35.4	85
450	Cobalt-based double-perovskite symmetrical electrodes with low thermal expansion for solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 225-231		83
449	Valence states and magnetic properties of LaNi1-xMnxO3(for 0?x?0.2 and x=0.5). <i>Journal of Physics C: Solid State Physics</i> , 1984 , 17, 2745-2760		83

(2016-1975)

448	Etude des proprietes magnetiques, electriques et optiques des phases de structure perovskite SrVO2.90 et SrVO3. <i>Journal of Solid State Chemistry</i> , 1975 , 14, 247-259	3.3	83
447	Low-Cost Higher Loading of a Sulfur Cathode. <i>Advanced Energy Materials</i> , 2016 , 6, 1502059	21.8	83
446	A perspective on electrical energy storage. MRS Communications, 2014, 4, 135-142	2.7	8o
445	Bulk modulus anomaly in RCoO3 (R=La, Pr, and Nd). <i>Physical Review B</i> , 2005 , 71,	3.3	80
444	Thermoelectric power in single-layer copper oxides. <i>Physical Review B</i> , 1995 , 51, 3104-3115	3.3	8o
443	Glass-amorphous alkali-ion solid electrolytes and their performance in symmetrical cells. <i>Energy and Environmental Science</i> , 2016 , 9, 948-954	35.4	79
442	Robust Fe Mo C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metal-Air Battery. <i>Advanced Materials</i> , 2017 , 29, 1702385	24	79
441	Experimental visualization of lithium conduction pathways in garnet-type Li7La3Zr2O12. <i>Chemical Communications</i> , 2012 , 48, 9840-2	5.8	79
440	SrCo0.95Sb0.05O3Das Cathode Material for High Power Density Solid Oxide Fuel Cells[] <i>Chemistry of Materials</i> , 2010 , 22, 789-798	9.6	77
439	Photoelectrochemistry of nickel(II) oxide. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1981 , 77, 643		77
438	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8587-8591	16.4	76
437	Identification of a new type of electronic state in the magnetoresistive orthomanganites. <i>Nature</i> , 1996 , 381, 770-772	50.4	76
436	Temperature Dependence of Aliovalent-Vanadium Doping in LiFePO4 Cathodes. <i>Chemistry of Materials</i> , 2013 , 25, 768-781	9.6	75
435	Lithium Ion Intercalation Performance of Niobium Oxides: KNb5O13 and K6Nb10.8O30. <i>Chemistry of Materials</i> , 2009 , 21, 4753-4755	9.6	75
434	Anomalous electronic state in CaCrO3 and SrCrO3. <i>Physical Review Letters</i> , 2006 , 96, 046408	7.4	75
433	Reduced area specific resistance for iron-based metallic interconnects by surface oxide coatings. <i>Materials Research Bulletin</i> , 2001 , 36, 81-95	5.1	75
432	Solid-Solution Oxides for Storage-Battery Electrodes. <i>Japanese Journal of Applied Physics</i> , 1980 , 19, 305	1.4	75
431	Cross-Linked Chitosan as a Polymer Network Binder for an Antimony Anode in Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502130	21.8	74

430	Sensitisation of semiconducting electrodes with ruthenium-based dyes. <i>Faraday Discussions of the Chemical Society</i> , 1980 , 70, 285		74
429	Influence of Atomic Vacancies on the Properties of Transition-Metal Oxides. I. TiOx and VOx. <i>Physical Review B</i> , 1972 , 5, 2764-2774	3.3	74
428	Cathode Dependence of Liquid-Alloy Na-K Anodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3292-3298	16.4	73
427	Na2Ni2TeO6: Evaluation as a cathode for sodium battery. <i>Journal of Power Sources</i> , 2013 , 243, 817-821	8.9	73
426	Chemical bonding and electronic structure of RNiO3 (R=rare earth). <i>Physical Review B</i> , 2004 , 69,	3.3	73
425	Evidence for peroxide formation in superconducting YBa2-xLaxCu3O7+/- delta. <i>Physical Review B</i> , 1988 , 37, 3734-3737	3.3	73
424	Suggestion Concerning Magnetic Interactions in Spinels. <i>Physical Review</i> , 1959 , 115, 1156-1158		72
423	Single-Crystal Growth and Properties of the Perovskites LaVO3 and YVO3. <i>Journal of Applied Physics</i> , 1966 , 37, 1431-1432	2.5	72
422	Localized or itinerant TiO3electrons in RTiO3perovskites. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 7395-7406	1.8	71
421	Keggin-Type Heteropolyacids as Electrode Materials for Electrochemical Supercapacitors. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 737-743	3.9	71
420	The electroreduction of oxygen on pyrolytic graphite. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987 , 233, 147-159		71
419	A Liquid-Metal-Enabled Versatile Organic Alkali-Ion Battery. <i>Advanced Materials</i> , 2019 , 31, e1806956	24	70
418	Low-temperature synthesis of Li7La3Zr2O12 with cubic garnet-type structure. <i>Materials Research Bulletin</i> , 2012 , 47, 1229-1232	5.1	70
417	Exploration of NaVOPO4 as a cathode for a Na-ion battery. <i>Chemical Communications</i> , 2013 , 49, 5280-2	5.8	70
416	Li-Ion Conduction and Stability of Perovskite Li3/8Sr7/16Hf1/4Ta3/4O3. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 14552-7	9.5	69
415	Room-temperature liquid metal and alloy systems for energy storage applications. <i>Energy and Environmental Science</i> , 2019 , 12, 2605-2619	35.4	69
414	Theoretical and Experimental Study of Vanadium-Based Fluorophosphate Cathodes for Rechargeable Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 3089-3097	9.6	69
413	Perspective on Engineering Transition-Metal Oxides. <i>Chemistry of Materials</i> , 2014 , 26, 820-829	9.6	69

412	Sr2CoMoO6 anode for solid oxide fuel cell running on H2 and CH4 fuels. <i>Journal of Power Sources</i> , 2011 , 196, 1738-1743	8.9	69
411	Electrochemical performance of La-doped Sr2MgMoO6IIn natural gas. <i>Electrochemistry Communications</i> , 2007 , 9, 1881-1885	5.1	69
410	A Theory of the Deviation from Close Packing in Hexagonal Metal Crystals. <i>Physical Review</i> , 1953 , 89, 282-294		69
409	Polymer lithium-garnet interphase for an all-solid-state rechargeable battery. <i>Nano Energy</i> , 2018 , 53, 926-931	17.1	69
408	Theoretical Study of the Structural Evolution of a Na2FeMn(CN)6 Cathode upon Na Intercalation. <i>Chemistry of Materials</i> , 2015 , 27, 3763-3768	9.6	68
407	LSGM-Based Solid Oxide Fuel Cell with 1.4 W/cm2 Power Density and 30 Day Long-Term Stability. Journal of the Electrochemical Society, 2005 , 152, A1511	3.9	68
406	Pressure-induced non-Fermi-liquid behavior of PrNiO3. <i>Physical Review Letters</i> , 2005 , 94, 226602	7.4	68
405	Structurally Ordered Fe3Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1803040	21.8	68
404	Localized vs Collective Descriptions of Magnetic Electrons. <i>Journal of Applied Physics</i> , 1968 , 39, 403-411	2.5	67
403	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 771-774	3.6	66
402	LiFeO2-Incorporated Li2MoO3 as a Cathode Additive for Lithium-Ion Battery Safety. <i>Chemistry of Materials</i> , 2012 , 24, 2673-2683	9.6	66
401	A Superior Low-Cost Cathode for a Na-Ion Battery. <i>Angewandte Chemie</i> , 2013 , 125, 2018-2021	3.6	66
400	Structures and a Two-Band Model for the System V1⊠CrxO2. <i>Physical Review B</i> , 1973 , 8, 1323-1331	3.3	66
399	Catalytic activities for methanol oxidation on ultrathin CuPt wavy nanowires with/without smart polymer. <i>Chemical Science</i> , 2016 , 7, 5414-5420	9.4	65
398	Electrode/Electrolyte Interface of Composite £i3V2(PO4)3 Cathodes in a Nonaqueous Electrolyte for Lithium Ion Batteries and the Role of the Carbon Additive. <i>Chemistry of Materials</i> , 2015 , 27, 3332-33	40 ⁶	63
397	The 2021 battery technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 183001	3	63
396	Approaching the Minimum Thermal Conductivity in Rhenium-Substituted Higher Manganese Silicides. <i>Advanced Energy Materials</i> , 2014 , 4, 1400452	21.8	62
395	Co-free, iron perovskites as cathode materials for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2010 , 195, 280-284	8.9	62

394	Wet Chemical Synthesis of Sr- and Mg-Doped LaGaO3, a Perovskite-Type Oxide-Ion Conductor. Journal of Solid State Chemistry, 1998 , 136, 274-283	3.3	62
393	Comment on "Identification of a superoxide in superconducting La2CuO4+ delta by x-ray photoelectron spectroscopy". <i>Physical Review B</i> , 1989 , 39, 12331-12333	3.3	62
392	Sr3BxNa3xSi3O9II.5x (x = 0.45) as a superior solid oxide-ion electrolyte for intermediate temperature-solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1680-1684	35.4	61
391	Monoclinic Sr(1-x)Na(x)SiO(3-0.5x): new superior oxide ion electrolytes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10149-54	16.4	61
390	Oxygen Permeation Through Cobalt-Containing Perovskites: Surface Oxygen Exchange vs. Lattice Oxygen Diffusion. <i>Journal of the Electrochemical Society</i> , 2001 , 148, E203	3.9	61
389	New battery strategies with a polymer/Al2O3 separator. <i>Journal of Power Sources</i> , 2014 , 263, 52-58	8.9	60
388	Optimum lithium-ion conductivity in cubic Li7\(\mathbb{L}\)a3Hf2\(\mathbb{T}\)axO12. Journal of Power Sources, 2012 , 209, 184-188	8.9	60
387	Crystal and Magnetic Structure of the Orthorhombic Perovskite YbMnO3. <i>Chemistry of Materials</i> , 2006 , 18, 2130-2134	9.6	60
386	Atomic Layer Deposition Functionalized Composite SOFC Cathode La0.6Sr0.4Fe0.8Co0.2O3Gd0.2Ce0.8O1.9: Enhanced Long-Term Stability. <i>Chemistry of Materials</i> , 2013 , 25, 4224-4231	9.6	59
385	High-rate oxygen evolution reaction on Al-doped LiNiO2. <i>Advanced Materials</i> , 2015 , 27, 6063-7	24	59
384	High pressure route to generate magnetic monopole dimers in spin ice. <i>Nature Communications</i> , 2011 , 2, 478	17.4	59
383	Preparation of C-LiFePO4/polypyrrole lithium rechargeable cathode by consecutive potential steps electrodeposition. <i>Journal of Power Sources</i> , 2010 , 195, 5351-5359	8.9	58
382	NaFe2PO4(SO4)2: a potential cathode for a Na-ion battery. <i>Energy and Environmental Science</i> , 2016 , 9, 3103-3106	35.4	58
381	Magnetic coupling between Sm3+ and the canted spin in an antiferromagnetic SmFeO3 single crystal. <i>Physical Review B</i> , 2012 , 86,	3.3	57
380	Nickel foam supported Snto alloy film as anode for lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 10673-10678	8.9	57
379	Chemical pressure effects on pyrochlore spin ice. <i>Physical Review Letters</i> , 2012 , 108, 207206	7.4	57
378	Enhanced Charge-Transfer Kinetics by Anion Surface Modification of LiFePO4. <i>Chemistry of Materials</i> , 2012 , 24, 3212-3218	9.6	56
377	Sr1\(\mathbb{K}\xSi1\)\(\mathbb{G}\text{GeyO30.5x: a new family of superior oxide-ion conductors. \(\mathbb{E}\)\(35.4	56

(2007-2005)

376	Effect of Ga doping on the multiferroic properties of RMn1⊠GaxO3 (R=Ho,Y). <i>Physical Review B</i> , 2005 , 72,	3.3	56
375	Selective synthesis of TbMn(2)O(5) nanorods and TbMnO(3) micron crystals. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14454-5	16.4	55
374	Lattice instabilities near the critical V-V separation for localized versus itinerant electrons in LiV1-yMyO2 (M=Cr or Ti) Li1-xVO2. <i>Physical Review B</i> , 1991 , 43, 10170-10178	3.3	55
373	Seebeck coefficients in vanadium spinels. <i>Materials Research Bulletin</i> , 1970 , 5, 621-629	5.1	55
372	Reaction Mechanism Optimization of Solid-State LiB Batteries with a PEO-Based Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2001812	15.6	55
371	Oxygen-Deficient Perovskite Sr0.7Y0.3CoO2.65\(\text{B} \)s a Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2011 , 23, 5037-5044	9.6	54
370	An Aqueous Symmetric Sodium-Ion Battery with NASICON-Structured Na3MnTi(PO4)3. Angewandte Chemie, 2016 , 128, 12960-12964	3.6	53
369	Systematic studies on effects of cationic ordering on structural and magnetic properties in Sr2FeMoO6. <i>Physical Review B</i> , 2006 , 73,	3.3	53
368	Behavior of Solid Electrolyte in Li-Polymer Battery with NMC Cathode via in-Situ Scanning Electron Microscopy. <i>Nano Letters</i> , 2020 , 20, 1607-1613	11.5	52
367	Exchange interaction in the insulating phase of RNiO3. <i>Physical Review Letters</i> , 2005 , 95, 127204	7.4	52
366	Nanocrystalline Lithium Manganese Oxide Spinel Cathode for Rechargeable Lithium Batteries. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, A49		52
365	Co and Fe substitution in YBa2Cu3O7[] Journal of Materials Research, 1988, 3, 248-256	2.5	52
364	Interfacial Chemistry Enables Stable Cycling of All-Solid-State Li Metal Batteries at High Current Densities. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6542-6550	16.4	52
363	Revealing the Reconstructed Surface of Li[Mn2]O4. <i>Nano Letters</i> , 2016 , 16, 2899-906	11.5	52
362	Room-Temperature Liquid Na-K Anode Membranes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14184-14187	16.4	52
361	Critical behavior of the ferromagnetic perovskites RTiO3 (R = Dy, Ho, Er, Tm, Yb) by magnetocaloric measurements. <i>Physical Review B</i> , 2013 , 87,	3.3	51
360	Orbital ordering in orthorhombic perovskites. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2394		51
359	Enhanced pressure dependence of magnetic exchange in A2+[V2]O4 spinels approaching the itinerant electron limit. <i>Physical Review Letters</i> , 2007 , 99, 187201	7.4	51

358	Li [Mn2] O 4 Spinel Cathode Material Showing No Capacity Fading in the 3 V Range. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 3621	3.9	51
357	Oxygen atom thermal vibration anisotropy in Ba0.87K0.13BiO3. <i>Applied Physics Letters</i> , 1988 , 53, 1753-	-1 <i>3</i> .55	51
356	MBsbauer 57Fe isomer shift as a measure of valence in mixed-valence iron sulfides. <i>Journal of Solid State Chemistry</i> , 1982 , 41, 1-22	3.3	51
355	General Strategy for Synthesis of Ordered Pt M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7857-7863	16.4	51
354	Sodium Intercalation Behavior of Layered NaxNbS2 (0 lk ll). Chemistry of Materials, 2013 , 25, 1699-1709	5 9.6	50
353	In situ Raman spectroscopy of LiFePO4: size and morphology dependence during charge and self-discharge. <i>Nanotechnology</i> , 2013 , 24, 424009	3.4	50
352	Magnetic structure of LaCrO3 perovskite under high pressure from in situ neutron diffraction. <i>Physical Review Letters</i> , 2011 , 106, 057201	7.4	50
351	Transition from orbital liquid to Jahn-Teller insulator in orthorhombic perovskites RTiO3. <i>Physical Review Letters</i> , 2008 , 101, 087205	7.4	50
350	NASICON-type Li1+2xZr2\(\text{\textit{Z}Cax}\)(PO4)3 with high ionic conductivity at room temperature. \(\text{RSC}\) Advances, \(\text{2011}\), 1, 1728	3.7	49
349	Rate Properties and Elevated-Temperature Performances of LiNi[sub 0.5\]Cr[sub 2x]Mn[sub 1.5\]O[sub 4] (0\]x\[0.8] as 5 V Cathode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1269	3.9	49
348	Unusually strong orbit-lattice interactions in the RVO3 perovskites. <i>Physical Review Letters</i> , 2004 , 93, 235901	7.4	49
347	Thermoelectric power of high-Tc superconductors. <i>Physical Review B</i> , 1990 , 41, 8723-8731	3.3	49
346	Electronic and Electrochemical Properties of Li1Mmn1.5Ni0.5O4 Spinel Cathodes As a Function of Lithium Content and Cation Ordering. <i>Chemistry of Materials</i> , 2015 , 27, 6934-6945	9.6	48
345	Correlation bag and high-Tc superconductivity. <i>Physical Review B</i> , 1990 , 42, 4276-4287	3.3	48
344	Electrochemical and Chemical Properties of Na2NiO2 as a Cathode Additive for a Rechargeable Sodium Battery. <i>Chemistry of Materials</i> , 2015 , 27, 6682-6688	9.6	47
343	Comparison of electrocatalytic reduction of CO2 to HCOOH with different tin oxides on carbon nanotubes. <i>Electrochemistry Communications</i> , 2016 , 65, 9-13	5.1	47
342	Structure, morphology, and cathode performance of Li1 [Ni0.5Mn1.5]O4 prepared by coprecipitation with oxalic acid. <i>Journal of Power Sources</i> , 2010 , 195, 2918-2923	8.9	47
341	Oxygen reduction on Ru-oxide pyrochlores bonded to a proton-exchange membrane. <i>Journal of Applied Electrochemistry</i> , 1992 , 22, 140-150	2.6	47

(2007-1988)

340	X-ray-photoelectron-spectroscopy evidence for peroxide in 1:2:3 copper oxides containing disordered or excess oxygen. <i>Physical Review B</i> , 1988 , 38, 5091-5094	3.3	47	
339	Conceptual phase diagram and its application to the spontaneous magnetism of several pyrites. <i>Journal of Solid State Chemistry</i> , 1971 , 3, 26-38	3.3	47	
338	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2021 , 33, 4-18	9.6	47	
337	A High-Performance All-Solid-State Sodium Battery with a Poly(ethylene oxide)Na3Zr2Si2PO12 Composite Electrolyte 2019 , 1, 132-138		46	
336	Li1.2Zr1.9Ca0.1(PO4)3, a room-temperature Li-ion solid electrolyte. <i>Journal of Power Sources</i> , 2011 , 196, 7760-7762	8.9	46	
335	Detection of temperature- and stress-induced modifications of LaCoO3 by micro-Raman spectroscopy. <i>Physical Review B</i> , 2005 , 72,	3.3	46	
334	New anode materials for photoelectrolysis. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1983 , 79, 1199		46	
333	Some Ferrimagnetic Properties of the System LixNi1NO. <i>Journal of Applied Physics</i> , 1958 , 29, 382-383	2.5	46	
332	Theory of the Magnetic Properties of the Ilmenites MTiO3. <i>Physical Review</i> , 1967 , 164, 768-778		46	
331	Selective CO Evolution from Photoreduction of CO on a Metal-Carbide-Based Composite Catalyst. Journal of the American Chemical Society, 2018 , 140, 13071-13077	16.4	46	
330	Self-assembled porous carbon microparticles derived from halloysite clay as a lithium battery anode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7345-7354	13	45	
329	2D Layered Graphitic Carbon Nitride Sandwiched with Reduced Graphene Oxide as Nanoarchitectured Anode for Highly Stable Lithium-ion Battery. <i>Electrochimica Acta</i> , 2017 , 237, 69-77	6.7	45	
328	A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithium-Sulfur Battery. <i>ACS Nano</i> , 2019 , 13, 9067-9073	16.7	45	
327	Defective Ni Perovskites as Cathode Materials in Intermediate-Temperature Solid-Oxide Fuel Cells: A Structure P roperties Correlation. <i>Chemistry of Materials</i> , 2010 , 22, 1071-1079	9.6	44	
326	Vibronic dispersion in the copper oxide superconductors. <i>Physical Review B</i> , 1994 , 49, 4251-4260	3.3	44	
325	Chemical Inhomogeneities and Square B-H Loops. <i>Journal of Applied Physics</i> , 1965 , 36, 2342-2346	2.5	44	
324	Electron scattering, charge order, and pseudogap physics in La1.6\(\text{N}\)Nd0.4SrxCuO4: An angle-resolved photoemission spectroscopy study. <i>Physical Review B</i> , 2015 , 92,	3.3	43	
323	Superexchange interaction in orbitally fluctuating RVO3. <i>Physical Review Letters</i> , 2007 , 99, 156401	7.4	43	

322	Crystallographic Transitions in Several Chromium Spinel Systems. <i>Journal of Applied Physics</i> , 1963 , 34, 1085-1086	2.5	43
321	Low-Cost, Dendrite-Blocking Polymer-Sb2O3Separators for Lithium and Sodium Batteries. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1655-A1661	3.9	42
320	Suppressing the bipolar contribution to the thermoelectric properties of Mg2Si0.4Sn0.6 by Ge substitution. <i>Journal of Applied Physics</i> , 2015 , 117, 155103	2.5	42
319	Excellent stability of spinel LiMn2O4-based composites for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24563		42
318	Critical behavior of the ferromagnetic perovskite BaRuO3. <i>Physical Review Letters</i> , 2008 , 101, 077206	7.4	42
317	Effects of ball milling on microstructures and thermoelectric properties of higher manganese silicides. <i>Journal of Alloys and Compounds</i> , 2015 , 641, 30-36	5.7	41
316	Correlation between the structure and the spin state in R1\(\mathbb{B}\)SrxCoO3 (R=La, Pr, and Nd). <i>Physical Review B</i> , 2007 , 76,	3.3	41
315	Oxygen ordering, peroxide-ion formation, and polarization fluctuations in YBa2Cu3O7\(\textit{IMaterials}\) Research Bulletin, 1988 , 23, 401-412	5.1	41
314	Electrochemical Lithium Intercalation in Monoclinic Nb12O29. Chemistry of Materials, 2011, 23, 2292-22	2 9 46	40
313	Insight into Fe Incorporation in Li3V2(PO4)3/C Cathode Material. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1573-A1578	3.9	40
312	Access to M[sup 3+]/M[sup 2+] Redox Couples in Layered LiMS[sub 2] Sulfides (M=Ti, V, Cr) as Anodes for Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A703	3.9	40
311	Size-, Water-, and Defect-Regulated Potassium Manganese Hexacyanoferrate with Superior Cycling Stability and Rate Capability for Low-Cost Sodium-Ion Batteries. <i>Small</i> , 2019 , 15, e1902420	11	39
310	Oxidizing Vacancies in Nitrogen-Doped Carbon Enhance Air-Cathode Activity. <i>Advanced Materials</i> , 2019 , 31, e1803339	24	39
309	In Situ Formation of Li3P Layer Enables Fast Li+ Conduction across Li/Solid Polymer Electrolyte Interface. <i>Advanced Functional Materials</i> , 2020 , 30, 2000831	15.6	38
308	Nontraditional, Safe, High Voltage Rechargeable Cells of Long Cycle Life. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6343-6352	16.4	38
307	Two-phase interface in LiMnPO4 nanoplates. <i>Journal of Power Sources</i> , 2012 , 215, 116-121	8.9	38
306	Competing magnetic phases in mixed-valent manganese oxide perovskites. <i>Physical Review B</i> , 2004 , 70,	3.3	38
305	Spin-glass to ferromagnet transition in LaMn1⊠ScxO3. <i>Solid State Sciences</i> , 2002 , 4, 297-304	3.4	38

(2011-1999)

304	Transition from itinerant to polaronic conduction in La 1 lk Sr x CoO 3 perovskites. <i>Europhysics Letters</i> , 1999 , 45, 399-405	1.6	38	
303	Electron diffraction and microscopy study of oxygen ordering in YBa2Cu3O7-¶ <i>Journal of Materials Research</i> , 1990 , 5, 9-16	2.5	38	
302	Structural and magnetic characterization of the lithiated iron oxide LixFe3O4. <i>Journal of Applied Physics</i> , 1986 , 59, 1918-1926	2.5	38	
301	Effects of Co2+ and Mn3+ ion substitutions on the anisotropy and magnetostriction constants of Y3Fe5O12. <i>Materials Research Bulletin</i> , 1972 , 7, 749-759	5.1	38	
300	Upgrading Traditional Organic Electrolytes toward Future Lithium Metal Batteries: A Hierarchical Nano-SiO2-Supported Gel Polymer Electrolyte. <i>ACS Energy Letters</i> , 2020 , 5, 1681-1688	20.1	38	
299	Antiperovskite Nitrides CuNCoV: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. <i>Nano Letters</i> , 2019 , 19, 7457-7463	11.5	37	
298	Effects of (Al,Ge) double doping on the thermoelectric properties of higher manganese silicides. <i>Journal of Applied Physics</i> , 2013 , 114, 173705	2.5	37	
297	Structural chemistry of iron sulfides. <i>Materials Research Bulletin</i> , 1978 , 13, 1305-1314	5.1	37	
296	Enhanced thermoelectric power factor of Re-substituted higher manganese silicides with small islands of MnSi secondary phase. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10500-10508	7.1	36	
295	Mass enhancement versus Stoner enhancement in strongly correlated metallic perovskites: LaNiO3 and LaCuO3. <i>Physical Review B</i> , 2014 , 89,	3.3	36	
294	c-axis oxygen in copper oxide superconductors. <i>Physical Review B</i> , 1990 , 42, 138-149	3.3	36	
293	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. <i>Angewandte Chemie</i> , 2018 , 130, 5547-5551	3.6	35	
292	Short O-O separation in layered oxide NaCoO enables an ultrafast oxygen evolution reaction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23473-23479	9 ^{11.5}	35	
291	Reinvestigation of the electrochemical lithium intercalation in 2H- and 3R-NbS2. <i>Journal of Power Sources</i> , 2014 , 245, 27-32	8.9	35	
29 0	Zhang-Rice physics and anomalous copper states in A-site ordered perovskites. <i>Scientific Reports</i> , 2013 , 3, 1834	4.9	35	
289	Exchange field on the rare earth Sm3+ in a single crystal perovskite SmMnO3. <i>Physical Review B</i> , 2011 , 84,	3.3	35	
288	Localized-itinerant electronic transition in the perovskite system La1-xCaxVO3. <i>Physical Review B</i> , 1995 , 52, 8776-8787	3.3	35	
287	High-pressure synthesis and physical properties of perovskite and post-perovskite Ca1\subsetensionSrxIrO3. Physical Review B, 2011 , 83,	3.3	34	

286	Neutron Depth Profiling Applications to Lithium-Ion Cell Research. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A886	3.9	34
285	Suppression of ferromagnetic double exchange by vibronic phase segregation. <i>Physical Review Letters</i> , 2006 , 96, 016402	7.4	34
284	Role of Doping and Dimensionality in the Superconductivity of NaxCoO2. <i>Chemistry of Materials</i> , 2005 , 17, 1965-1968	9.6	34
283	Three Electron Reversible Redox Reaction in Sodium Vanadium Chromium Phosphate as a High-Energy-Density Cathode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 19086	8 0 5.6	33
282	Locating redox couples in the layered sulfides with application to Cu[Cr2]S4. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2904-2911	3.3	33
281	Thermopower across the stripe critical point of La1.6Nd0.4SrxCuO4: Evidence for a quantum critical point in a hole-doped high-Tc superconductor. <i>Physical Review B</i> , 2009 , 79,	3.3	33
280	Phase competition in L0.5A0.5MnO3 perovskites. <i>Physical Review B</i> , 2002 , 66,	3.3	32
279	Superconductor-to-metal transition in overdoped La2-xSrxCuO4. <i>Physical Review B</i> , 1994 , 49, 9084-909	03.3	32
278	Origin of extra capacity in the solid electrolyte interphase near high-capacity iron carbide anodes for Li ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 2924-2937	35.4	31
277	A perspective on the Li-ion battery. Science China Chemistry, 2019, 62, 1555-1556	7.9	31
276	Charge disproportionation and the pressure-induced insulator-metal transition in cubic perovskite PbCrO3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 167	'0 ⁻¹ 4·5	31
275	A new pnictide superconductor without iron. <i>Journal of the American Chemical Society</i> , 2010 , 132, 908-9	16.4	31
274	A new perovskite polytype in the high-pressure sequence of BalrO(3). <i>Journal of the American Chemical Society</i> , 2009 , 131, 7461-9	16.4	31
273	X-ray photoemission spectroscopy study of LaCuO3. <i>Physical Review B</i> , 1990 , 41, 11572-11575	3.3	31
272	Pressure-Effect Measurements Using a Vibrating-Coil Magnetometer. <i>Journal of Applied Physics</i> , 1969 , 40, 1324-1326	2.5	31
271	Interpretation of the Magnetic and Crystallographic Properties of Several Iron, Nickel, and Iron-Nickel Nitrides. <i>Journal of Applied Physics</i> , 1960 , 31, S342-S343	2.5	31
270	Carbon-Coated Li3Nd3W2O12: A High Power and Low-Voltage Insertion Anode with Exceptional Cycleability for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1301715	21.8	30
269	Sr0.7Ho0.3CoO3las a potential cathode material for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012 , 199, 161-164	8.9	30

268	Aluminum-stabilized NASICON-structured Li3V2(PO4)3. Journal of Materials Chemistry A, 2013, 1, 68-72	13	30
267	Magnetic and transport properties of CeVO3. Journal of Solid State Chemistry, 1995, 119, 24-35	3.3	30
266	MEsbauer 57Fe spectra exhibiting Berrous character Dournal of Solid State Chemistry, 1980, 33, 219-232	3.3	30
265	Photoelectrochemical properties of n-type NiTiO3. <i>Journal of Applied Physics</i> , 1982 , 53, 7003-7013	2.5	30
264	Sustainable Electrical Energy Storage through the Ferrocene/Ferrocenium Redox Reaction in Aprotic Electrolyte. <i>Angewandte Chemie</i> , 2014 , 126, 11216-11220	3.6	29
263	Statics and dynamics of the highly correlated spin ice Ho2Ge2O7. <i>Physical Review B</i> , 2012 , 86,	3.3	29
262	In Situ Raman Study of Phase Stability of ⊞i3V2(PO4)3 upon Thermal and Laser Heating. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11994-12002	3.8	29
261	Pressure effect on the structural transition and suppression of the high-spin state in the triple-layer T'-La4Ni3O8. <i>Physical Review Letters</i> , 2012 , 108, 236403	7.4	29
260	Effect of pressure and quenching on superconductive La2CuO4+ delta (0Physical Review B, 1994 , 50, 4168-4180	3.3	29
259	Orbital mixing and ferromagnetism in LaMn1\(\mathbb{R}\)GaxO3. <i>Physical Review B</i> , 2008 , 77,	3.3	28
258	Orbital fluctuations and orbital flipping in RVO3 perovskites. <i>Physical Review Letters</i> , 2007 , 99, 197201	7.4	28
257	Suppression of the magnetic phase transition in manganites close to the metal-insulator crossover. <i>Physical Review B</i> , 2004 , 70,	3.3	28
256	Opposing spin-canting mechanism in single-crystal LuVO3 and YVO3. <i>Physical Review B</i> , 2005 , 72,	3.3	28
255	Chain contribution to the Seebeck coefficient in YBa2Cu3O7- delta. <i>Physical Review B</i> , 1995 , 51, 3250-3.	2 <i>5</i> ,3	28
254	Structure of Orthorhombic V0.95 Cr0.05 O2. Physical Review B, 1972, 5, 4104-4111	3.3	28
253	Toward a theory of test data selection. ACM SIGPLAN Notices, 1975, 10, 493-510	0.2	28
252	Conducting Nanopaper: A Carbon-Free Cathode Platform for LiD2 Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 673-680	20.1	27
251	Structural investigation of the oxide-ion electrolyte with SrMO3 (M = Si/Ge) structure. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4355-4360	13	27

250	Quantitative determination of Mn3+ content in LiMn1.5Ni0.5O4 spinel cathodes by magnetic measurements. <i>Applied Physics Letters</i> , 2012 , 100, 213909	3.4	27
249	Charge fluctuations and an ionicBovalent transition in La2\SrxCuO4. <i>Journal of Materials Chemistry</i> , 1991 , 1, 715-724		27
248	Influence of thermal history on the electrochemical properties of Li[Ni0.5Mn1.5]O4. <i>Journal of Power Sources</i> , 2013 , 243, 260-266	8.9	26
247	Characterization of the Double Perovskite Ba2BixSc0.2Co1.8 \square O6 \square (x = 0.1, 0.2). Chemistry of Materials, 2012 , 24, 4114-4122	9.6	26
246	Improving Li2O2 conductivity via polaron preemption: An ab initio study of Si doping. <i>Applied Physics Letters</i> , 2013 , 103, 073901	3.4	26
245	The electroreduction of dioxygen on thin films of gold in alkaline solution. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987 , 234, 193-211		26
244	A Ternary Hybrid-Cation Room-Temperature Liquid Metal Battery and Interfacial Selection Mechanism Study. <i>Advanced Materials</i> , 2020 , 32, e2000316	24	26
243	A PlastictTrystal Electrolyte Interphase for All-Solid-State Sodium Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 5633-5637	3.6	25
242	Batteries for electric road vehicles. <i>Dalton Transactions</i> , 2018 , 47, 645-648	4.3	25
241	Synthesis and Characterization of Sr2Cu(W1⊠Mox)O6: A Quasi-Two-Dimensional Magnetic System. <i>Chemistry of Materials</i> , 2012 , 24, 2764-2774	9.6	25
240	Thermal conductivity, electron transport, and magnetic properties of single-crystal Ca3Co2O6. <i>Physical Review B</i> , 2009 , 79,	3.3	25
239	Breakdown of magnetic order in Mott insulators with frustrated superexchange interaction. <i>Physical Review B</i> , 2008 , 78,	3.3	25
238	Semiconductor-semiconductor transition in Mg[Ti2]O4. <i>Physical Review B</i> , 2005 , 72,	3.3	25
237	First-order changes in ionic/covalent bonding. <i>Ferroelectrics</i> , 1992 , 130, 77-86	0.6	25
236	Magnetic order or charge-density wave in La2NiO4 by M\(\text{B}\)sbauer spectroscopy. <i>Physical Review B</i> , 1984 , 30, 6320-6326	3.3	25
235	Cation-Cation Three-Membered Ring Formation. <i>Journal of Applied Physics</i> , 1962 , 33, 1197-1199	2.5	25
234	Li S -Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17701-17706	16.4	25
233	Ambient-Temperature All-Solid-State Sodium Batteries with a Laminated Composite Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2002144	15.6	25

(2006-2018)

232	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie</i> , 2018 , 130, 2118-2122	3.6	24	
231	Structure anomaly and electronic transition in RNiO3 (R=La,Pr,IGd). <i>Physical Review B</i> , 2004 , 70,	3.3	24	
230	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. <i>Nature Communications</i> , 2021 , 12, 13	17.4	24	
229	Varied roles of Pb in transition-metal PbO perovskites (= Ti, V, Cr, Mn, Fe, Ni, Ru). <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 036003	7.1	23	
228	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016 , 117, 176603	7.4	23	
227	Use of B2O3 to improve Li+-ion transport in LiTi2(PO4)3-based ceramics. <i>Journal of Power Sources</i> , 2012 , 197, 310-313	8.9	23	
226	Critical behavior of ferromagnetic perovskite ruthenates. <i>Physical Review B</i> , 2012 , 85,	3.3	23	
225	Orbital hybridization in RVO3 perovskites: A high-pressure study. <i>Physical Review B</i> , 2009 , 80,	3.3	23	
224	Photoresponse of n-type semiconductor NiTiO3. <i>Applied Physics Letters</i> , 1982 , 40, 188-190	3.4	23	
223	Direct Cation-Cation Interactions in Primarily Ionic Solids. <i>Journal of Applied Physics</i> , 1960 , 31, S359-S36	512.5	23	
222	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12170-12177	16.4	23	
221	Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9935-9940	11.5	23	
220	Electric Dipoles and Ionic Conductivity in a Na+Glass Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A207-A213	3.9	22	
219	New Mechanism for Ferroelectricity in the Perovskite CaMnTiO Synthesized by Spark Plasma Sintering. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2214-2220	16.4	22	
218	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 10119-10122	3.6	22	
217	Evolution of ferromagnetism in orthorhombic perovskites Sr1\(\mathbb{R}\)PbxRuO3. <i>Physical Review B</i> , 2010 , 81,	3.3	22	
216	3D Framework Structure of a New Lithium Thiophosphate, LiTi2(PS4)3, as Lithium Insertion Hosts. <i>Chemistry of Materials</i> , 2008 , 20, 470-474	9.6	22	
215	Ferromagnetic behavior of carbon nanospheres encapsulating silver nanoparticles. <i>Physical Review B</i> , 2006 , 74,	3.3	22	

214	Electrical Conductivity in the Spinel System Co1 LixV2O4. Journal of Applied Physics, 1964, 35, 1069-10) 70 .5	22
213	Changing Outlook for Rechargeable Batteries. ACS Catalysis, 2017, 7, 1132-1135	13.1	21
212	Electrochemical Performance of Large-Grained NaCrO2 Cathode Materials for Na-Ion Batteries Synthesized by Decomposition of Na2Cr2O7[2H2O. <i>Chemistry of Materials</i> , 2019 , 31, 5214-5223	9.6	21
211	Ni3FeN-Supported Fe3Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for MetalAir Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 10033-10037	3.6	21
210	Possible Kondo physics near a metal-insulator crossover in the a-site ordered perovskite CaCu3Ir4O12. <i>Physical Review Letters</i> , 2013 , 111, 176403	7.4	21
209	Fe-based perovskites as electrodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 5478-5484	8.9	21
208	Non-adiabatic electron-lattice interactions in the copper-oxide superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1995 , 8, 541-544		21
207	Electronic structure of BaSn1-xSbxO3 studied by photoemission spectroscopy. <i>Physical Review B</i> , 1993 , 47, 1788-1793	3.3	21
206	The Prepared and Electrochemical Property of Mg Doped LiMnPO4Nanoplates as Cathode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A995-A998	3.9	20
205	Thermoelectric Solid-Oxide Fuel Cells with Extra Power Conversion from Waste Heat. <i>Chemistry of Materials</i> , 2012 , 24, 1401-1403	9.6	20
204	Spin and orbital ordering in Y1⊠LaxVO3. <i>Physical Review B</i> , 2011 , 84,	3.3	20
203	Rare earth [manganese perovskites. Fundamental Theories of Physics, 2003 , 249-351	0.8	20
202	Bond-length fluctuations in the copper oxide superconductors. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, R257-R326	1.8	20
201	Wide electrochemical window ionic salt for use in electropositive metal electrodeposition and solid state Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2194-2201	13	19
200	Li6Zr2O7 interstitial lithium-ion solid electrolyte. <i>Electrochimica Acta</i> , 2013 , 102, 446-450	6.7	19
199	Effect of an Internal Electric Field on the Redox Energies of ALnTiO4 (A = Na or Li, Ln = Y or Rare-Earth). <i>Chemistry of Materials</i> , 2013 , 25, 3852-3857	9.6	19
198	Redox Behaviors of Ni and Cr with Different Counter Cations in Spinel Cathodes for Li-Ion Batteries. Journal of the Electrochemical Society, 2010 , 157, A770	3.9	19
197	Pressure dependence of metal-insulator transition in perovskites RNiO3 (R=Eu, Y, Lu). <i>Physical Review B</i> , 2010 , 82,	3.3	19

(2011-1993)

196	Copper-oxygen bond length and self-doping in R2CuO4 (R=Pr, Nd, Sm, Eu, Gd). <i>Physical Review B</i> , 1993 , 47, 5477-5480	3.3	19	
195	Evidence for some suppression of magnetic moments in superconductive copper oxides. <i>Physica C:</i> Superconductivity and Its Applications, 1989 , 157, 439-445	1.3	19	
194	A Nafion -bound platinized carbon electrode for oxygen reduction in solid polymer electrolyte cells. <i>Journal of Applied Electrochemistry</i> , 1989 , 19, 383-386	2.6	19	
193	Vanishing of superconductivity at a transition from itinerant-electron to small-polaron conduction in nominal Bi4\(\mathbb{B}\)Pbx(Sr3Ca)Ca2\(\mathbb{B}\)YxCu4O16. Applied Physics Letters, 1988 , 53, 2695-2697	3.4	19	
192	A stable fluorinated and alkylated lithium malonatoborate salt for lithium ion battery application. <i>Chemical Communications</i> , 2015 , 51, 9817-20	5.8	18	
191	Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator ⊞iBr. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17696-17700	11.5	18	
190	High-pressure synthesis of the BaIrO3 perovskite: A Pauli paramagnetic metal with a Fermi liquid ground state. <i>Physical Review B</i> , 2013 , 88,	3.3	18	
189	Metal-metal transition in perovskite PbRuO3. <i>Physical Review B</i> , 2009 , 80,	3.3	18	
188	Structural transformation and magnetic competition in Yb(Mn1\(\text{Pex}\) Physical Review B, 2007 , 76,	3.3	18	
187	Enhanced Surface Interactions Enable Fast Li+ Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie</i> , 2020 , 132, 4160-4166	3.6	18	
186	Formation of Stable Interphase of Polymer-in-Salt Electrolyte in All-Solid-State Lithium Batteries. <i>Energy Material Advances</i> , 2021 , 2021, 1-10	1	18	
185	Unlocking the potential of amorphous red phosphorus films as a long-term stable negative electrode for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1925-1929	13	17	
184	High-pressure synthesis and characterization of the effective pseudospin S=1/2 XY pyrochlores R2Pt2O7(R=Er,Yb). <i>Physical Review B</i> , 2016 , 93,	3.3	17	
183	Electrochemical performance of Ba2Co9O14+SDC composite cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012 , 209, 40-43	8.9	17	
182	Magnetic measurements as a viable tool to assess the relative degrees of cation ordering and Mn3+content in doped LiMn1.5Ni0.5O4 spinel cathodes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10745	13	17	
181	Lattice effects on ferromagnetism in perovskite ruthenates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13312-5	11.5	17	
180	Behavior of Li Guest in KNb5O13 Host with One-Dimensional Tunnels and Multiple Interstitial Sites. <i>Chemistry of Materials</i> , 2011 , 23, 3210-3216	9.6	17	
179	Exfoliation from carbon nanotubes versus tube size on lithium insertion. <i>Electrochemistry Communications</i> , 2011 , 13, 125-128	5.1	17	

178	Frustrated superexchange interaction versus orbital order in a LaVO3 crystal. <i>Physical Review Letters</i> , 2008 , 100, 046401	7.4	17
177	Specific heat of geometrically frustrated and multiferroic RMn1 \square GaxO3 (R=Ho,Y). <i>Physical Review B</i> , 2006 , 74,	3.3	17
176	Evolution of polaron size in La2\square\square\notation NiO4. <i>Physical Review B</i> , 2002 , 66,	3.3	17
175	Lithium Insertion Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 135, 391		17
174	NMR study of the cation distribution in the systems Li1+5xTa1\(\mathbb{Q}\)O3 and Li1+xTa1\(\mathbb{I}\)TixO3. Materials Research Bulletin, 1985 , 20, 679-686	5.1	17
173	Insulating Pockets in Metallic LaNiO3. Advanced Electronic Materials, 2016, 2, 1500261	6.4	17
172	Neutron Diffraction and Electrochemical Studies of Na0.79CoO2and Na0.79CoO.7Mn0.3O2Cathodes for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A961-A967	3.9	16
171	New routes to synthesizing an ordered perovskite CaCu3Fe2Sb2O12 and its magnetic structure by neutron powder diffraction. <i>Inorganic Chemistry</i> , 2014 , 53, 4281-3	5.1	16
170	An electrochemical device for three-dimensional (3D) diffusivity measurement in fuel cells. <i>Nano Energy</i> , 2013 , 2, 1004-1009	17.1	16
169	Transition from a weak ferromagnetic insulator to an exchange-enhanced paramagnetic metal in the BaIrO3 polytypes. <i>Physical Review B</i> , 2009 , 80,	3.3	16
168	Efficient oxygen reduction in alkaline solution with platinum phthalocyanine on porous carbon. Journal of Applied Electrochemistry, 1989 , 19, 105-107	2.6	16
167	Cathodic reduction of oxygen by platinum phthalocyanine thin films. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 160, 359-367		16
166	Spin Correlations Among Narrow-Band Electrons. <i>Journal of Applied Physics</i> , 1964 , 35, 1083-1084	2.5	16
165	A self-regulated gradient interphase for dendrite-free solid-state Li batteries. <i>Energy and Environmental Science</i> ,	35.4	16
164	Composition-Tunable Antiperovskite Cu In NNi as Superior Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17488-17493	16.4	15
163	General Strategy for Synthesis of Ordered Pt3M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie</i> , 2020 , 132, 7931-7937	3.6	15
162	Thermal stability of Mg2Si0.4Sn0.6 in inert gases and atomic-layer-deposited Al2O3 thin film as a protective coating. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17726-17731	13	15
161	Electrochemical Properties of Three Li2Ni2TeO6 Structural Polymorphs. <i>Chemistry of Materials</i> , 2019 , 31, 9379-9388	9.6	15

160	Reversible lithium insertion in the garnet framework of Li3Nd3W2O12. <i>Electrochemistry Communications</i> , 2012 , 19, 135-137	5.1	15	
159	Spin fluctuations in the antiferromagnetic metal Nb12O29. <i>Physical Review B</i> , 2009 , 80,	3.3	15	
158	VO: A strongly correlated metal close to a Mott-Hubbard transition. <i>Physical Review B</i> , 2007 , 76,	3.3	15	
157	Crystallography, magnetism, and band structure of Mn5Ni2Bi4-type compounds. <i>Physical Review B</i> , 1974 , 10, 120-127	3.3	15	
156	Long stable cycling of fluorine-doped nickel-rich layered cathodes for lithium batteries. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1292-1298	5.8	15	
155	NASICON Li1.2Mg0.1Zr1.9(PO4)3 Solid Electrolyte for an All-Solid-State Li-Metal Battery. <i>Small Methods</i> , 2020 , 4, 2000764	12.8	15	
154	Long-range magnetic order in the Heisenberg pyrochlore antiferromagnets Gd2Ge2O7 and Gd2Pt2O7 synthesized under high pressure. <i>Physical Review B</i> , 2016 , 94,	3.3	14	
153	Lithium Intercalation into ATi2(PS4)3 (A=Li, Na, Ag). <i>Electrochemistry Communications</i> , 2008 , 10, 497-50	15.1	14	
152	Effect of annealing on the local microstructure and Tc in Y1-zCazBa2(Cu0.90Co0.10)3O6+y. <i>Physical Review B</i> , 1992 , 46, 3041-3049	3.3	14	
151	Study of the electroreduction of dioxygen on thin films of platinum phthalocyanine in alkaline solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988 , 239, 273-289		14	
150	Elevating Energy Density for Sodium-Ion Batteries through Multielectron Reactions. <i>Nano Letters</i> , 2021 , 21, 2281-2287	11.5	14	
149	Low-Cost Self-Assembled Oxide Separator for Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1903550	15.6	13	
148	Performance of a ferroelectric glass electrolyte in a self-charging electrochemical cell with negative capacitance and resistance. <i>Applied Physics Reviews</i> , 2020 , 7, 011406	17.3	13	
147	Measuring assurance case confidence using Baconian probabilities 2013,		13	
146	Determination of hole distribution in Sr14\(\text{CaxCu24O41} \) using soft x-ray absorption spectroscopy at the Cu L3 edge. <i>Physical Review B</i> , 2013 , 88,	3.3	13	
145	Post-silicon is too late avoiding the \$50 million paperweight starts with validated designs 2010 ,		13	
144	Ordering of bond length fluctuations in the copper-oxide superconductors. <i>Europhysics Letters</i> , 2002 , 57, 550-556	1.6	13	
143	Solid electrolytes. <i>Pure and Applied Chemistry</i> , 1995 , 67, 931-938	2.1	13	

142	Hydrogen Evolution on Sr x NbO3 \blacksquare (0.7 \blacksquare 0.95) in Acid. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 910-913	3.9	13
141	Lithiated rare-earth thiospinels and selenospinels. <i>Journal of Solid State Chemistry</i> , 1987 , 70, 121-128	3.3	13
140	Magnetic and Optical Properties of the High- and Low-Pressure Forms of CsCoF3. <i>Journal of Applied Physics</i> , 1970 , 41, 935-936	2.5	13
139	Effects of Hydrostatic Pressure and of Jahn-Teller Distortions on the Magnetic Properties of RbFeF3. <i>Physical Review B</i> , 1970 , 2, 4640-4645	3.3	13
138	An Inverse Aluminum Battery: Putting the Aluminum as the Cathode. ACS Energy Letters, 2017, 2, 1534-	1 <u>5</u> 3.8	12
137	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie</i> , 2016 , 128, 16063-16066	3.6	12
136	Justifying the significance of Knudsen diffusion in solid oxide fuel cells. <i>Energy</i> , 2016 , 95, 242-246	7.9	12
135	Electrically tunable transport in the antiferromagnetic Mott insulator Sr2IrO4. <i>Physical Review B</i> , 2015 , 92,	3.3	12
134	Competition between heavy fermion and Kondo interaction in isoelectronic A-site-ordered perovskites. <i>Nature Communications</i> , 2014 , 5, 5818	17.4	12
133	Stress-induced perovskite to post-perovskite transition in CaIrO3 at room temperature. <i>Physical Review B</i> , 2010 , 82,	3.3	12
132	Spin-state transition in Ba2Co9O14. <i>Physical Review B</i> , 2012 , 85,	3.3	12
131	Evidence for two electronic phases in Y1\(\text{LaxTiO3} \) from thermoelectric and magnetic susceptibility measurements. <i>Physical Review B</i> , 2005 , 71,	3.3	12
130	Instability of brannerite cathode materials upon lithium insertion. <i>Solid State Sciences</i> , 2001 , 3, 875-879		12
129	High efficiency cathodes for alkaline air electrodes. <i>Journal of Applied Electrochemistry</i> , 1985 , 15, 774-77	73 .6	12
128	The Ada compiler validation capability. ACM SIGPLAN Notices, 1980, 15, 1-8	0.2	12
127	Exception handling design issues. ACM SIGPLAN Notices, 1975, 10, 41-45	0.2	12
126	Superior Oxygen Electrocatalysis on RuSex Nanoparticles for Rechargeable Air Cathodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1702037	21.8	12
125	Extraordinary Dielectric Properties at Heterojunctions of Amorphous Ferroelectrics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17968-17976	16.4	12

124	Mechanism of the CalrO3 post-perovskite phase transition under pressure. <i>Physical Review B</i> , 2013 , 88,	3.3	11
123	Eliminative induction: A basis for arguing system confidence 2013,		11
122	Reinvestigation of Li[sub 1½]Ti[sub y]V[sub 1½]S[sub 2] Electrodes in Suitable Electrolyte: Highly Improved Electrochemical Properties. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A73		11
121	BOND-LENGTH FLUCTUATIONS IN TRANSITION-METAL OXIDES. <i>Modern Physics Letters B</i> , 2005 , 19, 105	57 <u>1</u> 608	1 ₁₁
120	Transport properties of Cu-O chains in Sr2CuO3+ delta. <i>Physical Review B</i> , 1995 , 52, 16101-16105	3.3	11
119	Improving Stabilized Zirconia with Strontium Gallate. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1954-1956	3.8	11
118	The electroreduction of oxygen on thin films of platinum phthalocyanine in alkaline solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988 , 249, 167-180		11
117	THE ROLE OF OXYGEN IN YBa2Cu3O7[]International Journal of Modern Physics B, 1988 , 02, 379-391	1.1	11
116	Unusual structural evolution in KCuF3 at high temperatures by neutron powder diffraction. <i>Physical Review B</i> , 2013 , 87,	3.3	10
115	Study of atomic structure and electronic structure of an AA'3B4O12 double-perovskite CaCu3Ir4O12 using STEM imaging and EELS techniques. <i>Ultramicroscopy</i> , 2013 , 127, 94-9	3.1	10
114	Enhanced thermoelectric power near the quantum phase transition in the itinerant-electron ferromagnet MnSi. <i>Physical Review B</i> , 2010 , 82,	3.3	10
113	Spin-state transitions in PrCoO3 studied with neutron powder diffraction. <i>Physical Review B</i> , 2011 , 84,	3.3	10
112	Mapping of Redox Energies. Molecular Crystals and Liquid Crystals, 1998, 311, 1-14		10
111	Magnetic state of La1.36Sr1.64Mn2O7 probed by magnetic force microscopy. <i>Physical Review B</i> , 2008 , 77,	3.3	10
110	X-ray diffraction, magnetic, and transport study of lattice instabilities and metal-insulator transition in CaV1IITixO3(0?x?0.4). <i>Physical Review B</i> , 2004 , 69,	3.3	10
109	Coexistence of two electronic phases in LaTiO3+(0.01?20.12) and their evolution with [] <i>Physical Review B</i> , 2005 , 71,	3.3	10
108	Bond-length mismatch in intergrowth structures. <i>Journal of the Less Common Metals</i> , 1986 , 116, 83-93		10
107	Ionic Liquid (IL) Laden Metal-Organic Framework (IL-MOF) Electrolyte for Quasi-Solid-State Sodium Batteries. <i>ACS Applied Materials & Samp; Interfaces</i> , 2021 , 13, 24662-24669	9.5	10

106	Room-Temperature Liquid Na K Anode Membranes. <i>Angewandte Chemie</i> , 2018 , 130, 14380-14383	3.6	10
105	An electrochemical device with a multifunctional sensor for gas diffusivity measurement in fuel cells. <i>Journal of Power Sources</i> , 2014 , 251, 108-112	8.9	9
104	High-performance carbon electrodes for acid methanol\(\textit{ii}\) fuel cells. <i>Journal of Applied Electrochemistry</i> , 1987 , 17, 413-418	2.6	9
103	Oxygen clustering in 123 copper oxides having disordered or excess (>7.0) oxygen. <i>Superconductor Science and Technology</i> , 1988 , 1, 187-193	3.1	9
102	Micropores-in-macroporous gel polymer electrolytes for alkali metal batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 177-189	5.8	9
101	Temperature dependence of anisotropic magnetoresistance in antiferromagnetic Sr2IrO4. <i>Journal of Applied Physics</i> , 2015 , 117, 17A310	2.5	8
100	Oxygen-Electrode Catalysis on Oxoperovskites at 700 °C versus 20 °C. <i>Chemistry of Materials</i> , 2018 , 30, 629-635	9.6	8
99	Communication Tharacterization of LiAlCl4 TxSO2Inorganic Liquid Li+Electrolyte. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1694-A1696	3.9	8
98	Anomalous perovskite PbRuO3 stabilized under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20003-7	11.5	8
97	Thermoelectric solid-oxide fuel cell with Ca2Co2O5 as cathode material. <i>RSC Advances</i> , 2013 , 3, 2336	3.7	8
96	Magnetic domain tuning and the emergence of bubble domains in the bilayer manganite La2🛘xSr1+2xMn2O7(x=0.32). <i>Physical Review B</i> , 2015 , 92,	3.3	8
95	Electrochemical Behavior of a Graphite Electrode Prepared by Anodic Electrophoretic Deposition. Journal of the Electrochemical Society, 2012 , 159, A321-A324	3.9	8
94	Suggestion Concerning the Role of Wave-Function Symmetry in Transition Metals and Their Alloys. Journal of Applied Physics, 1958 , 29, 513-515	2.5	8
93	Li2S6-Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 17842-17847	3.6	8
92	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 12268-12275	3.6	8
91	Anomalous bulk modulus in vanadate spinels. <i>Physical Review B</i> , 2016 , 94,	3.3	7
90	Investigation of Reversible Li Insertion into LiY(WO4)2. Chemistry of Materials, 2016, 28, 4641-4645	9.6	7
89	Magnetic phase transformation induced by electrochemical lithium intercalation in Li1 + x EuTiO4 and Li2 + 2x Eu2Ti3O10 (0 lk ll) compounds. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2047-2060	2.6	7

88	Local structural distortions, orbital ordering, and ferromagnetism in underdoped La1\(\mathbb{B}\)SrxMnO3. Physical Review B, 2015 , 91,	3.3	7	
87	Magnetic and Transport Properties of Ba2Co9O14 and Ba1.9A0.1Co9O14 (A=La or Na). <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 114713	1.5	7	
86	Crossover from itinerant-electron to localized-electron behavior in Sr(1-x)Ca(x)CrO3 perovskite solid solution. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 355601	1.8	7	
85	VIV bond length fluctuations in VO x. <i>Europhysics Letters</i> , 2003 , 61, 527-533	1.6	7	
84	Phase transitions in high-T c superconductive oxides. <i>Phase Transitions</i> , 1990 , 22, 79-101	1.3	7	
83	Evidence of the anomalous charge state 57Fe4+ in the nuclear decay of 57Co3+. <i>Physical Review Letters</i> , 1986 , 57, 1931-1934	7.4	7	
82	Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of O?3-Na3Ni1.5TeO6. <i>Chemistry of Materials</i> , 2020 , 32, 10035-10044	9.6	7	
81	Localized Mg-vacancy states in the thermoelectric material Mg2Bi0.4Sn0.6. <i>Journal of Applied Physics</i> , 2016 , 119, 085104	2.5	7	
80	Fiber-in-Tube Design of Co9S8-Carbon/Co9S8: Enabling Efficient Sodium Storage. <i>Angewandte Chemie</i> , 2019 , 131, 6305-6309	3.6	6	
79	The sounds of science symphony for many instruments and voices. <i>Physica Scripta</i> , 2020 , 95, 062501	2.6	6	
78	Dynamic Distortions in the YTiO3 Ferromagnet. Journal of the Physical Society of Japan, 2014, 83, 08460	1 1.5	6	
77	Y1\(\text{LaxVO3: Effects of doping on orbital ordering. } Physical Review B, 2014 , 90,	3.3	6	
76	Electrochemical probings of Li1+xVS2. <i>Electrochimica Acta</i> , 2012 , 78, 430-433	6.7	6	
75	Evidence of three-dimensional Ising ferromagnetism in the A-site-ordered perovskite CaCu3Ge4O12. <i>Physical Review B</i> , 2011 , 83,	3.3	6	
74	Pressure and Isotope Effects in the Manganese-Oxide Perovskites. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 494, 335		6	
73	The Molecular Engineering of Oxides: 1989 MRS Fall Meeting Von Hippel Award Address. <i>MRS Bulletin</i> , 1990 , 15, 23-30	3.2	6	
72	Oxide engineering. <i>Journal of Solid State Chemistry</i> , 1975 , 12, 148-155	3.3	6	
71	Spontaneous Band Magnetism. <i>Journal of Applied Physics</i> , 1967 , 38, 1054-1056	2.5	6	

70	Formation of Stable Interphase of Polymer-in-Salt Electrolyte in All-Solid-State Lithium Batteries. <i>Energy Material Advances</i> , 2020 , 2020, 1-10	1	6
69	All-Solid-State Sodium Batteries with a Polyethylene Glycol DiacrylateNa3Zr2Si2PO12 Composite Electrolyte. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000061	1.6	6
68	On high-temperature evolution of passivation layer in Li-10 wt % Mg alloy via in situ SEM-EBSD. <i>Science Advances</i> , 2020 , 6,	14.3	5
67	KTa1MITixGeyO3EA High (Relaxor Dielectric and Superior Oxide-Ion Electrolyte for IT-SOFC. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3205-3211	6.1	5
66	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 8723-8727	3.6	5
65	Pressure dependence of the superconducting transition temperature of the filled skutterudite YFe4P12. <i>Physical Review B</i> , 2013 , 88,	3.3	5
64	Identification of electronic state in perovskite CaCrO3 by high-pressure studies. <i>Physical Review B</i> , 2015 , 92,	3.3	5
63	Synthesis of monoclinic IrTe2 under high pressure and its physical properties. <i>Physical Review B</i> , 2015 , 92,	3.3	5
62	Magnetic properties of R2Mn2O7 pyrochlore rare-earth solid solutions. <i>Physical Review B</i> , 2010 , 82,	3.3	5
61	Vibronic states in La{2-x}BaxCuO4BaxCuO4. <i>Journal of Superconductivity and Novel Magnetism</i> , 1997 , 10, 309-314		5
60	Comment on "Quasiclassical transport at a van Hove singularity in cuprate superconductors". <i>Physical Review Letters</i> , 1995 , 75, 979	7.4	5
59	Thallium solubility range in Tl2 IJBa2Can II CunO2n+ 4 II superconductors. <i>Journal of Materials Chemistry</i> , 1994 , 4, 1627-1633		5
58	Effect of percolation in an intergrowth structure. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 2479-24	9<u>7</u>. 8	5
57	Identifying the Pairing Mechanism in High-Tc Superconductors. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 156, 339		5
56	A lightpen-controlled program for online data analysis. <i>Communications of the ACM</i> , 1965 , 8, 130-134	2.5	5
55	Rationally Designed PEGDA-LLZTO Composite Electrolyte for Solid-State Lithium Batteries. <i>ACS Applied Materials & Designed & Designed & Designed & Designed </i>	9.5	5
54	Low-Temperature Performance of a Ferroelectric Glass Electrolyte Rechargeable Cell. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4943-4953	6.1	4
53	High-pressure synthesis, structure, and photoluminescence of a new KSbO3-type bismuth germanate Bi3Ge3O10.5. <i>Inorganic Chemistry</i> , 2013 , 52, 2138-41	5.1	4

(2016-2013)

52	Observation of electronic inhomogeneity and charge density waves in a bilayer La(2-2x)Sr(1+2x)Mn2O7 single crystal. <i>Physical Review Letters</i> , 2013 , 110, 217203	7.4	4	
51	Comments on charge density waves. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 285-291	2.6	4	
50	Study of the onset of superconductivity in underdoped La2\sumsrxCuO4. <i>New Journal of Physics</i> , 2009 , 11, 013057	2.9	4	
49	Interatomic versus intraatomic Ru interactions in perovskites. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 2989-2993	3.3	4	
48	Improved Oxide Ion Electrolytes. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 369, 333		4	
47	CRYSTAL CHEMISTRY AND SUPERCONDUCTIVITY IN THE COPPER OXIDES 1991 , 1-56		4	
46	Comments on "Electrical transport properties of iron(II) molybdate". <i>Journal of Materials Science Letters</i> , 1987 , 6, 939-941		4	
45	Comment on the magnetic properties of several indium thiospinels. <i>Journal of Solid State Chemistry</i> , 1972 , 4, 292-293	3.3	4	
44	Atomic Moments and Magnetic Coupling in Cation Excess-Nickel Arsenides. <i>Journal of Applied Physics</i> , 1963 , 34, 1193-1194	2.5	4	
43	Correlative imaging of ionic transport and electronic structure in nano LiFePO electrodes. <i>Chemical Communications</i> , 2020 , 56, 984-987	5.8	4	
42	Lattice and magnetic dynamics in perovskite Y1\(\mathbb{L}\)axTiO3. <i>Physical Review B</i> , 2016 , 94,	3.3	4	
41	Personal journey into solid state chemistry. <i>Journal of Solid State Chemistry</i> , 2019 , 271, 387-392	3.3	4	
40	Efficient Aqueous Electroreduction of CO2 to Formate at Low Overpotential on Indium Tin Oxide Nanocrystals. <i>Chemistry of Materials</i> ,	9.6	4	
39	Designing composite polymer electrolytes for all-solid-state lithium batteries. <i>Current Opinion in Electrochemistry</i> , 2021 , 30, 100828	7.2	4	
38	High-Pressure Synthesis, Crystal Structure, and Magnetic and Transport Properties of a Six-Layered SrRhO. <i>Inorganic Chemistry</i> , 2017 , 56, 8187-8194	5.1	3	
37	Thermodynamic considerations of same-metal electrodes in an asymmetric cell. <i>Materials Theory</i> , 2019 , 3,	2.2	3	
36	Possible Bose-Einstein condensate associated with an orbital degree of freedom in the Mott insulator CaCrO3. <i>Physical Review B</i> , 2016 , 94,	3.3	3	
35	Conduction below 100 °C in nominal Li6ZnNb4O14. <i>Journal of Materials Science</i> , 2016 , 51, 854-860	4.3	3	

34	LiFePO4 High Electrochemical Performance at 60{degree sign}C with Purity Controlled by SQUID Magnetometry. <i>ECS Transactions</i> , 2006 , 3, 119-129	1	3
33	Effect of high-pressure annealing on magnetoresistance in manganese perovskites. <i>Journal of Applied Physics</i> , 2005 , 98, 033911	2.5	3
32	General Concepts1-25		3
31	Metal-metal versus anion-anion bonding in B31 structures. <i>Journal of Applied Physics</i> , 1993 , 73, 5704-5	70<u>:</u>6 5	3
30	MBsbauer characterization of LixFe3O4. <i>Hyperfine Interactions</i> , 1986 , 28, 769-772	0.8	3
29	Electrical and magnetic measurements for LiyMg(Yb2)X4, X=S or Se. <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 3391-3400		3
28	Composition-Tunable Antiperovskite CuxIn1\(\mathbb{N}\)Ni3 as Superior Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 17641-17646	3.6	3
27	Spin freezing into a disordered state in CaFeTi2O6 synthesized under high pressure. <i>Physical Review B</i> , 2018 , 98,	3.3	2
26	Conditions for Ta(IV)-Ta(IV) bonding in trirutile Li(x)MTa2O6. <i>Inorganic Chemistry</i> , 2015 , 54, 2009-16	5.1	2
25	Questionable collapse of the bulk modulus in CrN. <i>Nature Materials</i> , 2010 , 9, 284-284	27	2
24	The influence on Fermi energy of Li-site change in LizTi1 $\sqrt[9]{N}$ iyS2 on crossing z = 1. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10160		2
23	Pressure induced metallization in ACrO3 in perovskite compounds. <i>Journal of Physics: Conference Series</i> , 2008 , 121, 022017	0.3	2
22	Thermal conductivity of La2\sumset SrxCuO4(0.05 ?x? 0.22). New Journal of Physics, 2004 , 6, 143-143	2.9	2
21	The transport properties in strongly correlated BaCo0.9Ni0.1S1.87. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 10699-10704	1.8	2
20	Localized-Itinerant Electron Transitions in the Orthomanganites. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 401, 515		2
19	NMR relaxation times and proton motion in HxWO3. <i>Applied Physics A: Solids and Surfaces</i> , 1989 , 49, 65	-68	2
18	New Oxide-Ion Electrolytes. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 210, 287		2
17	Dataset on a ferroelectric based electrostatic and electrochemical Li-cell with a traditional cathode. <i>Data in Brief</i> , 2020 , 29, 105087	1.2	2

LIST OF PUBLICATIONS

16	Titelbild: A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte (Angew. Chem. 8/2018). <i>Angewandte Chemie</i> , 2018 , 130, 2025-2025	3.6	1
15	The origin of grain boundary capacitance in highly doped ceria. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5901-4	3.6	1
14	Comparison of Li+ conductivity in Li3Nb1NxO4 (M=W, Mo) with that in Li3NxNixNbO4. <i>Materials Research Bulletin</i> , 2013 , 48, 1372-1375	5.1	1
13	Gas convection in fuel cells: An overlooked factor. <i>Electrochimica Acta</i> , 2015 , 176, 1476-1483	6.7	1
12	Magnetic and transport properties of layered LixCo0.5RhO3. <i>Applied Physics Letters</i> , 2012 , 101, 102409	3.4	1
11	Crystalline solid electrolytes II: Material design 1994 , 43-73		1
10	Perovskites as Oxide-Ion Electrolytes. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 369, 343		1
9	Hole concentration and critical temperature in Tl2 $\c B$ Ba2 $\c B$ LazCuO6 $\c B$. Journal of Materials Chemistry, 1992 , 2, 317-321		1
8	. IEEE Transactions on Software Engineering, 1975 , SE-1, 425-426	3.5	1
7	Dataset on a primary lithium battery cell with a ferroelectric Li-glass electrolyte and MnO cathode. <i>Data in Brief</i> , 2020 , 29, 105339	1.2	О
6	Reflections on Sixty Years of Solid State Chemistry. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 638, 1893-1896	1.3	О
5	Charge Disproportionation and Complex Magnetism in a PbMnO3 Perovskite Synthesized under High Pressure. <i>Chemistry of Materials</i> , 2021 , 33, 92-101	9.6	О
4	Effect of Chemical Treatment on the Surface Structure of Li1⊠[Mn2]O4. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2078-2079	0.5	
3	Local structure, magnetism, and superconductivity in Sr analogs of Fe-doped YBa2Cu3 Fe y O6+x. <i>Hyperfine Interactions</i> , 1994 , 93, 1665-1670	0.8	
2	Ceramic Superconductors. Advances in Chemistry Series, 1989, 287-321		
1	(Invited) Directions of High Energy Batteries and Status of Battery500 Consortium. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 29-29	О	