John B. Goodenough

List of Publications by Year in Descending Order

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	Interfacial Chemistry Enables Stable Cycling of All-Solid-State Li Metal Batteries at High Current Densities. *Journal of the American Chemical Society*, **2021**, 143, 6542-6550	16.4	52
644	Ionic Liquid (IL) Laden Metal-Organic Framework (IL-MOF) Electrolyte for Quasi-Solid-State Sodium Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 24662-24669	9.5	10
643	Li S -Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 17701-17706	16.4	25
642	Rationally Designed PEGDA-LLZTO Composite Electrolyte for Solid-State Lithium Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 30703-30711	9.5	5
641	Li2S6-Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. *Angewandte Chemie*, **2021**, 133, 17842-17847	3.6	8
640	Reaction Mechanism Optimization of Solid-State Li–S Batteries with a PEO-Based Electrolyte. *Advanced Functional Materials*, **2021**, 31, 2001812	15.6	55
639	Ambient-Temperature All-Solid-State Sodium Batteries with a Laminated Composite Electrolyte. *Advanced Functional Materials*, **2021**, 31, 2002144	15.6	25
638	Charge Disproportionation and Complex Magnetism in a PbMnO3 Perovskite Synthesized under High Pressure. *Chemistry of Materials*, **2021**, 33, 92-101	9.6	0
637	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. *Chemistry of Materials*, **2021**, 33, 4-18	9.6	47
636	All-Solid-State Sodium Batteries with a Polyethylene Glycol Diacrylate–Na3Zr2Si2PO12 Composite Electrolyte. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000061	1.6	6
635	Formation of Stable Interphase of Polymer-in-Salt Electrolyte in All-Solid-State Lithium Batteries. *Energy Material Advances*, **2021**, 2021, 1-10	1	18
634	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. *Nature Communications*, **2021**, 12, 13	17.4	24
633	Elevating Energy Density for Sodium-Ion Batteries through Multielectron Reactions. *Nano Letters*, **2021**, 21, 2281-2287	11.5	14
632	The 2021 battery technology roadmap. *Journal Physics D: Applied Physics*, **2021**, 54, 183001	3	63
631	Designing composite polymer electrolytes for all-solid-state lithium batteries. *Current Opinion in Electrochemistry*, **2021**, 30, 100828	7.2	4
630	On high-temperature evolution of passivation layer in Li-10 wt % Mg alloy via in situ SEM-EBSD. *Science Advances*, **2020**, 6,	14.3	5
629	Origin of extra capacity in the solid electrolyte interphase near high-capacity iron carbide anodes for Li ion batteries. *Energy and Environmental Science*, **2020**, 13, 2924-2937	35.4	31

628	Composition-Tunable Antiperovskite Cu In NNi as Superior Electrocatalysts for the Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2020**, 59, 17488-17493	16.4	15
627	Dataset on a primary lithium battery cell with a ferroelectric Li-glass electrolyte and MnO cathode. *Data in Brief*, **2020**, 29, 105339	1.2	0
626	The sounds of science symphony for many instruments and voices. *Physica Scripta*, **2020**, 95, 062501	2.6	6
625	General Strategy for Synthesis of Ordered Pt3M Intermetallics with Ultrasmall Particle Size. *Angewandte Chemie*, **2020**, 132, 7931-7937	3.6	15
624	Performance of a ferroelectric glass electrolyte in a self-charging electrochemical cell with negative capacitance and resistance. *Applied Physics Reviews*, **2020**, 7, 011406	17.3	13
623	Three Electron Reversible Redox Reaction in Sodium Vanadium Chromium Phosphate as a High-Energy-Density Cathode for Sodium-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 1908680	15.6	33
622	Behavior of Solid Electrolyte in Li-Polymer Battery with NMC Cathode via in-Situ Scanning Electron Microscopy. *Nano Letters*, **2020**, 20, 1607-1613	11.5	52
621	In Situ Formation of Li3P Layer Enables Fast Li+ Conduction across Li/Solid Polymer Electrolyte Interface. *Advanced Functional Materials*, **2020**, 30, 2000831	15.6	38
620	KTa1□□TixGeyO3□A High □Relaxor Dielectric and Superior Oxide-Ion Electrolyte for IT-SOFC. *ACS Applied Energy Materials*, **2020**, 3, 3205-3211	6.1	5
619	(Invited) Directions of High Energy Batteries and Status of Battery500 Consortium. *ECS Meeting Abstracts*, **2020**, MA2020-02, 29-29	0	
618	Formation of Stable Interphase of Polymer-in-Salt Electrolyte in All-Solid-State Lithium Batteries. *Energy Material Advances*, **2020**, 2020, 1-10	1	6
617	Fast Li Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. *Journal of the American Chemical Society*, **2020**, 142, 2497-2505	16.4	91
616	Micropores-in-macroporous gel polymer electrolytes for alkali metal batteries. *Sustainable Energy and Fuels*, **2020**, 4, 177-189	5.8	9
615	Dataset on a ferroelectric based electrostatic and electrochemical Li-cell with a traditional cathode. *Data in Brief*, **2020**, 29, 105087	1.2	2
614	Enhanced Surface Interactions Enable Fast Li+ Conduction in Oxide/Polymer Composite Electrolyte. *Angewandte Chemie*, **2020**, 132, 4160-4166	3.6	18
613	Correlative imaging of ionic transport and electronic structure in nano LiFePO electrodes. *Chemical Communications*, **2020**, 56, 984-987	5.8	4
612	Enhanced Surface Interactions Enable Fast Li Conduction in Oxide/Polymer Composite Electrolyte. *Angewandte Chemie - International Edition*, **2020**, 59, 4131-4137	16.4	114
611	Graphitic-Shell Encapsulation of Metal Electrocatalysts for Oxygen Evolution, Oxygen Reduction, and Hydrogen Evolution in Alkaline Solution. *Advanced Energy Materials*, **2020**, 10, 1903215	21.8	86

610	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. *Science*, **2020**, 370, 192-197	33.3	156
609	Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of O?3-Na3Ni1.5TeO6. *Chemistry of Materials*, **2020**, 32, 10035-10044	9.6	7
608	Thermodynamic Understanding of Li-Dendrite Formation. *Joule*, **2020**, 4, 1864-1879	27.8	90
607	Composition-Tunable Antiperovskite CuxIn1NNi3 as Superior Electrocatalysts for the Hydrogen Evolution Reaction. *Angewandte Chemie*, **2020**, 132, 17641-17646	3.6	3
606	NASICON Li1.2Mg0.1Zr1.9(PO4)3 Solid Electrolyte for an All-Solid-State Li-Metal Battery. *Small Methods*, **2020**, 4, 2000764	12.8	15
605	A Ternary Hybrid-Cation Room-Temperature Liquid Metal Battery and Interfacial Selection Mechanism Study. *Advanced Materials*, **2020**, 32, e2000316	24	26
604	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 12268-12275	3.6	8
603	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 12170-12177	16.4	23
602	Upgrading Traditional Organic Electrolytes toward Future Lithium Metal Batteries: A Hierarchical Nano-SiO2-Supported Gel Polymer Electrolyte. *ACS Energy Letters*, **2020**, 5, 1681-1688	20.1	38
601	General Strategy for Synthesis of Ordered Pt M Intermetallics with Ultrasmall Particle Size. *Angewandte Chemie - International Edition*, **2020**, 59, 7857-7863	16.4	51
600	Size-, Water-, and Defect-Regulated Potassium Manganese Hexacyanoferrate with Superior Cycling Stability and Rate Capability for Low-Cost Sodium-Ion Batteries. *Small*, **2019**, 15, e1902420	11	39
599	Thermodynamic considerations of same-metal electrodes in an asymmetric cell. *Materials Theory*, **2019**, 3,	2.2	3
598	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene oxide). *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18815-18821	11.5	117
597	Antiperovskite Nitrides CuNCoV: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. *Nano Letters*, **2019**, 19, 7457-7463	11.5	37
596	A Liquid-Metal-Enabled Versatile Organic Alkali-Ion Battery. *Advanced Materials*, **2019**, 31, e1806956	24	70
595	Electrochemical Performance of Large-Grained NaCrO2 Cathode Materials for Na-Ion Batteries Synthesized by Decomposition of Na2Cr2O7 2H2O. *Chemistry of Materials*, **2019**, 31, 5214-5223	9.6	21
594	Low-Cost Self-Assembled Oxide Separator for Rechargeable Batteries. *Advanced Functional Materials*, **2019**, 29, 1903550	15.6	13
593	A High-Performance All-Solid-State Sodium Battery with a Poly(ethylene oxide) Na3Zr2Si2PO12 Composite Electrolyte **2019**, 1, 132-138		46

592	Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable Zn Air Batteries **2019**, 1, 123-131		135
591	Low-Temperature Performance of a Ferroelectric Glass Electrolyte Rechargeable Cell. *ACS Applied Energy Materials*, **2019**, 2, 4943-4953	6.1	4
590	Fiber-in-Tube Design of Co9S8-Carbon/Co9S8: Enabling Efficient Sodium Storage. *Angewandte Chemie*, **2019**, 131, 6305-6309	3.6	6
589	Fiber-in-Tube Design of Co S -Carbon/Co S : Enabling Efficient Sodium Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 6239-6243	16.4	85
588	Lithium anode stable in air for low-cost fabrication of a dendrite-free lithium battery. *Nature Communications*, **2019**, 10, 900	17.4	203
587	Pathways for practical high-energy long-cycling lithium metal batteries. *Nature Energy*, **2019**, 4, 180-186	62.3	1202
586	Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator BiBr. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 17696-17700	11.5	18
585	Exceptional oxygen evolution reactivities on CaCoO and SrCoO. *Science Advances*, **2019**, 5, eaav6262	14.3	89
584	A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithium-Sulfur Battery. *ACS Nano*, **2019**, 13, 9067-9073	16.7	45
583	Room-temperature liquid metal and alloy systems for energy storage applications. *Energy and Environmental Science*, **2019**, 12, 2605-2619	35.4	69
582	Effect of Chemical Treatment on the Surface Structure of Li1[Mn2]O4. *Microscopy and Microanalysis*, **2019**, 25, 2078-2079	0.5	
581	A perspective on the Li-ion battery. *Science China Chemistry*, **2019**, 62, 1555-1556	7.9	31
580	Electrochemical Properties of Three Li2Ni2TeO6 Structural Polymorphs. *Chemistry of Materials*, **2019**, 31, 9379-9388	9.6	15
579	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	11.5	35
578	Polar polymer solvent interaction derived favorable interphase for stable lithium metal batteries. *Energy and Environmental Science*, **2019**, 12, 3319-3327	35.4	85
577	Personal journey into solid state chemistry. *Journal of Solid State Chemistry*, **2019**, 271, 387-392	3.3	4
576	Oxidizing Vacancies in Nitrogen-Doped Carbon Enhance Air-Cathode Activity. *Advanced Materials*, **2019**, 31, e1803339	24	39
575	Double-Layer Polymer Electrolyte for High-Voltage All-Solid-State Rechargeable Batteries. *Advanced Materials*, **2019**, 31, e1805574	24	196

574	Structurally Ordered Fe3Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. *Advanced Energy Materials*, **2019**, 9, 1803040	21.8	68
573	Nontraditional, Safe, High Voltage Rechargeable Cells of Long Cycle Life. *Journal of the American Chemical Society*, **2018**, 140, 6343-6352	16.4	38
572	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. *Journal of the American Chemical Society*, **2018**, 140, 6448-6455	16.4	295
571	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. *Angewandte Chemie*, **2018**, 130, 5547-5551	3.6	35
570	Stabilizing a High-Energy-Density Rechargeable Sodium Battery with a Solid Electrolyte. *CheM*, **2018**, 4, 833-844	16.2	144
569	Titelbild: A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte (Angew. Chem. 8/2018). *Angewandte Chemie*, **2018**, 130, 2025-2025	3.6	1
568	Oxygen-Electrode Catalysis on Oxoperovskites at 700 °C versus 20 °C. *Chemistry of Materials*, **2018**, 30, 629-635	9.6	8
567	Cathode Dependence of Liquid-Alloy Na-K Anodes. *Journal of the American Chemical Society*, **2018**, 140, 3292-3298	16.4	73
566	PEO/garnet composite electrolytes for solid-state lithium batteries: From "ceramic-in-polymer" to "polymer-in-ceramic" *Nano Energy*, **2018**, 46, 176-184	17.1	672
565	Batteries for electric road vehicles. *Dalton Transactions*, **2018**, 47, 645-648	4.3	25
564	New Mechanism for Ferroelectricity in the Perovskite CaMnTiO Synthesized by Spark Plasma Sintering. *Journal of the American Chemical Society*, **2018**, 140, 2214-2220	16.4	22
563	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. *Angewandte Chemie - International Edition*, **2018**, 57, 2096-2100	16.4	325
562	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. *Angewandte Chemie*, **2018**, 130, 2118-2122	3.6	24
561	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. *Angewandte Chemie - International Edition*, **2018**, 57, 5449-5453	16.4	150
560	Spin freezing into a disordered state in CaFeTi2O6 synthesized under high pressure. *Physical Review B*, **2018**, 98,	3.3	2
559	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 8587-8591	16.4	76
558	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. *Angewandte Chemie*, **2018**, 130, 8723-8727	3.6	5
557	Communication: Characterization of LiAlCl4·xSO2 Inorganic Liquid Li+ Electrolyte. *Journal of the Electrochemical Society*, **2018**, 165, A1694-A1696	3.9	8

556	Superior Oxygen Electrocatalysis on RuSex Nanoparticles for Rechargeable Air Cathodes. *Advanced Energy Materials*, **2018**, 8, 1702037	21.8	12
555	Robust N-doped carbon aerogels strongly coupled with iron-cobalt particles as efficient bifunctional catalysts for rechargeable Zn-air batteries. *Nanoscale*, **2018**, 10, 19937-19944	7.7	108
554	Extraordinary Dielectric Properties at Heterojunctions of Amorphous Ferroelectrics. *Journal of the American Chemical Society*, **2018**, 140, 17968-17976	16.4	12
553	NaMnZr(PO): A High-Voltage Cathode for Sodium Batteries. *Journal of the American Chemical Society*, **2018**, 140, 18192-18199	16.4	115
552	A Self-Healing Room-Temperature Liquid-Metal Anode for Alkali-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1804649	15.6	89
551	LiN-Modified Garnet Electrolyte for All-Solid-State Lithium Metal Batteries Operated at 40 °C. *Nano Letters*, **2018**, 18, 7414-7418	11.5	160
550	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
549	Room-Temperature Liquid Na-K Anode Membranes. *Angewandte Chemie - International Edition*, **2018**, 57, 14184-14187	16.4	52
548	Exploring Indium-Based Ternary Thiospinel as Conceivable High-Potential Air-Cathode for Rechargeable Zn Air Batteries. *Advanced Energy Materials*, **2018**, 8, 1802263	21.8	164
547	Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9935-9940	11.5	23
546	Room-Temperature Liquid Na K Anode Membranes. *Angewandte Chemie*, **2018**, 130, 14380-14383	3.6	10
545	Polymer lithium-garnet interphase for an all-solid-state rechargeable battery. *Nano Energy*, **2018**, 53, 926-931	17.1	69
544	Unlocking the potential of amorphous red phosphorus films as a long-term stable negative electrode for lithium batteries. *Journal of Materials Chemistry A*, **2017**, 5, 1925-1929	13	17
543	Low-Cost High-Energy Potassium Cathode. *Journal of the American Chemical Society*, **2017**, 139, 2164-2167	16.4	366
542	Photocatalytic CO Reduction by Carbon-Coated Indium-Oxide Nanobelts. *Journal of the American Chemical Society*, **2017**, 139, 4123-4129	16.4	291
541	Conducting Nanopaper: A Carbon-Free Cathode Platform for Li O2 Batteries. *ACS Energy Letters*, **2017**, 2, 673-680	20.1	27
540	A Plastic-Crystal Electrolyte Interphase for All-Solid-State Sodium Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 5541-5545	16.4	117
539	A Plastic Crystal Electrolyte Interphase for All-Solid-State Sodium Batteries. *Angewandte Chemie*, **2017**, 129, 5633-5637	3.6	25

538	An Inverse Aluminum Battery: Putting the Aluminum as the Cathode. *ACS Energy Letters*, **2017**, 2, 1534-1538	23.8	12
537	Hierarchically mesoporous nickel-iron nitride as a cost-efficient and highly durable electrocatalyst for Zn-air battery. *Nano Energy*, **2017**, 39, 77-85	17.1	172
536	High-Pressure Synthesis, Crystal Structure, and Magnetic and Transport Properties of a Six-Layered SrRhO. *Inorganic Chemistry*, **2017**, 56, 8187-8194	5.1	3
535	Self-assembled porous carbon microparticles derived from halloysite clay as a lithium battery anode. *Journal of Materials Chemistry A*, **2017**, 5, 7345-7354	13	45
534	2D Layered Graphitic Carbon Nitride Sandwiched with Reduced Graphene Oxide as Nanoarchitectured Anode for Highly Stable Lithium-ion Battery. *Electrochimica Acta*, **2017**, 237, 69-77	6.7	45
533	Electric Dipoles and Ionic Conductivity in a Na+Glass Electrolyte. *Journal of the Electrochemical Society*, **2017**, 164, A207-A213	3.9	22
532	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie*, **2017**, 129, 771-774	3.6	66
531	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 753-756	16.4	341
530	Alternative strategy for a safe rechargeable battery. *Energy and Environmental Science*, **2017**, 10, 331-336	35.4	181
529	Rechargeable Sodium All-Solid-State Battery. *ACS Central Science*, **2017**, 3, 52-57	16.8	240
528	Changing Outlook for Rechargeable Batteries. *ACS Catalysis*, **2017**, 7, 1132-1135	13.1	21
527	Robust Fe Mo C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metal-Air Battery. *Advanced Materials*, **2017**, 29, 1702385	24	79
526	Dendrite-Suppressed Lithium Plating from a Liquid Electrolyte via Wetting of Li3N. *Advanced Energy Materials*, **2017**, 7, 1700732	21.8	131
525	Ni3FeN-Supported Fe3Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal–Air Batteries. *Angewandte Chemie*, **2017**, 129, 10033-10037	3.6	21
524	Ni FeN-Supported Fe Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal-Air Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 9901-9905	16.4	133
523	Ni3Fe-N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. *Advanced Energy Materials*, **2017**, 7, 1601172	21.8	305
522	A high-performance all-metallocene-based, non-aqueous redox flow battery. *Energy and Environmental Science*, **2017**, 10, 491-497	35.4	155
521	Long stable cycling of fluorine-doped nickel-rich layered cathodes for lithium batteries. *Sustainable Energy and Fuels*, **2017**, 1, 1292-1298	5.8	15

520	Cellulose-Based Porous Membrane for Suppressing Li Dendrite Formation in Lithium-Sulfur Battery. *ACS Energy Letters*, **2016**, 1, 633-637	20.1	136
519	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. *Angewandte Chemie*, **2016**, 128, 10119-10122	3.6	22
518	Liquid K-Na Alloy Anode Enables Dendrite-Free Potassium Batteries. *Advanced Materials*, **2016**, 28, 9608-9612	24	179
517	An Aqueous Symmetric Sodium-Ion Battery with NASICON-Structured Na3MnTi(PO4)3. *Angewandte Chemie*, **2016**, 128, 12960-12964	3.6	53
516	An Aqueous Symmetric Sodium-Ion Battery with NASICON-Structured Na3 MnTi(PO4)3. *Angewandte Chemie - International Edition*, **2016**, 55, 12768-72	16.4	176
515	High-pressure synthesis and characterization of the effective pseudospin S=1/2 XY pyrochlores R2Pt2O7(R=Er,Yb). *Physical Review B*, **2016**, 93,	3.3	17
514	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
513	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2016**, 55, 9965-8	16.4	155
512	Exploring reversible oxidation of oxygen in a manganese oxide. *Energy and Environmental Science*, **2016**, 9, 2575-2577	35.4	115
511	Electrochemical Nature of the Cathode Interface for a Solid-State Lithium-Ion Battery: Interface between LiCoO2 and Garnet-Li7La3Zr2O12. *Chemistry of Materials*, **2016**, 28, 8051-8059	9.6	272
510	Hollow Nanotubes of N-Doped Carbon on CoS. *Angewandte Chemie*, **2016**, 128, 16063-16066	3.6	12
509	Hollow Nanotubes of N-Doped Carbon on CoS. *Angewandte Chemie - International Edition*, **2016**, 55, 15831-15834	16.4	146
508	NaMV(PO) (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. *Nano Letters*, **2016**, 16, 7836-7841	11.5	146
507	Anomalous bulk modulus in vanadate spinels. *Physical Review B*, **2016**, 94,	3.3	7
506	Thermal stability of Mg2Si0.4Sn0.6 in inert gases and atomic-layer-deposited Al2O3 thin film as a protective coating. *Journal of Materials Chemistry A*, **2016**, 4, 17726-17731	13	15
505	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13313-13317	11.5	193
504	Ion-Catalyzed Synthesis of Microporous Hard Carbon Embedded with Expanded Nanographite for Enhanced Lithium/Sodium Storage. *Journal of the American Chemical Society*, **2016**, 138, 14915-14922	16.4	267
503	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. *Physical Review Letters*, **2016** , 117, 176603	7.4	23

502	Possible Bose-Einstein condensate associated with an orbital degree of freedom in the Mott insulator CaCrO3. *Physical Review B*, **2016**, 94,	3.3	3
501	Long-range magnetic order in the Heisenberg pyrochlore antiferromagnets Gd2Ge2O7 and Gd2Pt2O7 synthesized under high pressure. *Physical Review B*, **2016**, 94,	3.3	14
500	Cross-Linked Chitosan as a Polymer Network Binder for an Antimony Anode in Sodium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502130	21.8	74
499	Investigation of Reversible Li Insertion into LiY(WO4)2. *Chemistry of Materials*, **2016**, 28, 4641-4645	9.6	7
498	Li-Ion Conduction and Stability of Perovskite Li3/8Sr7/16Hf1/4Ta3/4O3. *ACS Applied Materials & Interfaces*, **2016**, 8, 14552-7	9.5	69
497	Justifying the significance of Knudsen diffusion in solid oxide fuel cells. *Energy*, **2016**, 95, 242-246	7.9	12
496	Conduction below 100 °C in nominal Li6ZnNb4O14. *Journal of Materials Science*, **2016**, 51, 854-860	4.3	3
495	Comparison of electrocatalytic reduction of CO2 to HCOOH with different tin oxides on carbon nanotubes. *Electrochemistry Communications*, **2016**, 65, 9-13	5.1	47
494	The origin of grain boundary capacitance in highly doped ceria. *Physical Chemistry Chemical Physics*, **2016**, 18, 5901-4	3.6	1
493	Glass-amorphous alkali-ion solid electrolytes and their performance in symmetrical cells. *Energy and Environmental Science*, **2016**, 9, 948-954	35.4	79
492	Mesoporous Titanium Nitride-Enabled Highly Stable Lithium-Sulfur Batteries. *Advanced Materials*, **2016**, 28, 6926-31	24	459
491	Low-Cost Higher Loading of a Sulfur Cathode. *Advanced Energy Materials*, **2016**, 6, 1502059	21.8	83
490	A Sodium-Ion Battery with a Low-Cost Cross-Linked Gel-Polymer Electrolyte. *Advanced Energy Materials*, **2016**, 6, 1600467	21.8	101
489	The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. *Nano Letters*, **2016**, 16, 4560-8	11.5	117
488	Subzero-Temperature Cathode for a Sodium-Ion Battery. *Advanced Materials*, **2016**, 28, 7243-8	24	299
487	Insulating Pockets in Metallic LaNiO3. *Advanced Electronic Materials*, **2016**, 2, 1500261	6.4	17
486	Li3N as a Cathode Additive for High-Energy-Density Lithium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502534	21.8	109
485	Lattice and magnetic dynamics in perovskite Y1−xLaxTiO3. *Physical Review B*, **2016**, 94,	3.3	4

484	Localized Mg-vacancy states in the thermoelectric material Mg2Si0.4Sn0.6. *Journal of Applied Physics*, **2016**, 119, 085104	2.5	7
483	Revealing the Reconstructed Surface of Li[Mn2]O4. *Nano Letters*, **2016**, 16, 2899-906	11.5	52
482	Catalytic activities for methanol oxidation on ultrathin CuPt wavy nanowires with/without smart polymer. *Chemical Science*, **2016**, 7, 5414-5420	9.4	65
481	Low-Cost Hollow Mesoporous Polymer Spheres and All-Solid-State Lithium, Sodium Batteries. *Advanced Energy Materials*, **2016**, 6, 1501802	21.8	110
480	Sodium Extraction from NASICON-Structured Na3MnTi(PO4)3 through Mn(III)/Mn(II) and Mn(IV)/Mn(III) Redox Couples. *Chemistry of Materials*, **2016**, 28, 6553-6559	9.6	88
479	NaFe2PO4(SO4)2: a potential cathode for a Na-ion battery. *Energy and Environmental Science*, **2016**, 9, 3103-3106	35.4	58
478	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. *Nano Letters*, **2016**, 16, 6516-6522	11.5	192
477	Varied roles of Pb in transition-metal PbO perovskites (= Ti, V, Cr, Mn, Fe, Ni, Ru). *Science and Technology of Advanced Materials*, **2015**, 16, 036003	7.1	23
476	Trapping lithium polysulfides of a Li-S battery by forming lithium bonds in a polymer matrix. *Energy and Environmental Science*, **2015**, 8, 2389-2395	35.4	170
475	Effects of ball milling on microstructures and thermoelectric properties of higher manganese silicides. *Journal of Alloys and Compounds*, **2015**, 641, 30-36	5.7	41
474	A stable fluorinated and alkylated lithium malonatoborate salt for lithium ion battery application. *Chemical Communications*, **2015**, 51, 9817-20	5.8	18
473	A Composite Gel-Polymer/Glass-Fiber Electrolyte for Sodium-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1402235	21.8	114
472	Theoretical Study of the Structural Evolution of a Na2FeMn(CN)6 Cathode upon Na Intercalation. *Chemistry of Materials*, **2015**, 27, 3763-3768	9.6	68
471	Electrode/Electrolyte Interface of Composite Li3V2(PO4)3 Cathodes in a Nonaqueous Electrolyte for Lithium Ion Batteries and the Role of the Carbon Additive. *Chemistry of Materials*, **2015**, 27, 3332-3340	9.6	63
470	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. *Nano Letters*, **2015**, 15, 3398-402	11.5	104
469	Review-Solid Electrolytes in Rechargeable Electrochemical Cells. *Journal of the Electrochemical Society*, **2015**, 162, A2387-A2392	3.9	170
468	Energy storage materials: A perspective. *Energy Storage Materials*, **2015**, 1, 158-161	19.4	343
467	Temperature dependence of anisotropic magnetoresistance in antiferromagnetic Sr2IrO4. *Journal of Applied Physics*, **2015**, 117, 17A310	2.5	8

466	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. *Chemical Society Reviews*, **2015**, 44, 7968-96	58.5	322
465	Electronic and Electrochemical Properties of Li1−xMn1.5Ni0.5O4 Spinel Cathodes As a Function of Lithium Content and Cation Ordering. *Chemistry of Materials*, **2015**, 27, 6934-6945	9.6	48
464	Enhanced thermoelectric power factor of Re-substituted higher manganese silicides with small islands of MnSi secondary phase. *Journal of Materials Chemistry C*, **2015**, 3, 10500-10508	7.1	36
463	Eldfellite, NaFe(SO4)2: an intercalation cathode host for low-cost Na-ion batteries. *Energy and Environmental Science*, **2015**, 8, 3000-3005	35.4	140
462	Electrochemical and Chemical Properties of Na2NiO2 as a Cathode Additive for a Rechargeable Sodium Battery. *Chemistry of Materials*, **2015**, 27, 6682-6688	9.6	47
461	Electrically tunable transport in the antiferromagnetic Mott insulator Sr2IrO4. *Physical Review B*, **2015**, 92,	3.3	12
460	Electron scattering, charge order, and pseudogap physics in La1.6−xNd0.4SrxCuO4: An angle-resolved photoemission spectroscopy study. *Physical Review B*, **2015**, 92,	3.3	43
459	Identification of electronic state in perovskite CaCrO3 by high-pressure studies. *Physical Review B*, **2015**, 92,	3.3	5
458	Synthesis of monoclinic IrTe2 under high pressure and its physical properties. *Physical Review B*, **2015**, 92,	3.3	5
457	Magnetic domain tuning and the emergence of bubble domains in the bilayer manganite La2−2xSr1+2xMn2O7(x=0.32). *Physical Review B*, **2015**, 92,	3.3	8
456	Gas convection in fuel cells: An overlooked factor. *Electrochimica Acta*, **2015**, 176, 1476-1483	6.7	1
455	High-rate oxygen evolution reaction on Al-doped LiNiO2. *Advanced Materials*, **2015**, 27, 6063-7	24	59
454	Active LaNi1−xFexO3 bifunctional catalysts for air cathodes in alkaline media. *Journal of Materials Chemistry A*, **2015**, 3, 9421-9426	13	98
453	Enhanced cycling stability of hybrid Li-air batteries enabled by ordered Pd3Fe intermetallic electrocatalyst. *Journal of the American Chemical Society*, **2015**, 137, 7278-81	16.4	128
452	Suppressing the bipolar contribution to the thermoelectric properties of Mg2Si0.4Sn0.6 by Ge substitution. *Journal of Applied Physics*, **2015**, 117, 155103	2.5	42
451	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
450	Local structural distortions, orbital ordering, and ferromagnetism in underdoped La1−xSrxMnO3. *Physical Review B*, **2015**, 91,	3.3	7
449	Charge disproportionation and the pressure-induced insulator-metal transition in cubic perovskite PbCrO3. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 1670-4	11.5	31

448	Rhombohedral prussian white as cathode for rechargeable sodium-ion batteries. *Journal of the American Chemical Society*, **2015**, 137, 2548-54	16.4	415
447	Conditions for Ta(IV)-Ta(IV) bonding in trirutile Li(x)MTa2O6. *Inorganic Chemistry*, **2015**, 54, 2009-16	5.1	2
446	Wide electrochemical window ionic salt for use in electropositive metal electrodeposition and solid state Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 2194-2201	13	19
445	Approaching the Minimum Thermal Conductivity in Rhenium-Substituted Higher Manganese Silicides. *Advanced Energy Materials*, **2014**, 4, 1400452	21.8	62
444	An electrochemical device with a multifunctional sensor for gas diffusivity measurement in fuel cells. *Journal of Power Sources*, **2014**, 251, 108-112	8.9	9
443	Spinel materials for high-voltage cathodes in Li-ion batteries. *RSC Advances*, **2014**, 4, 154-167	3.7	156
442	Electrochemical energy storage in a sustainable modern society. *Energy and Environmental Science*, **2014**, 7, 14-18	35.4	601
441	Estimating Hybridization of Transition Metal and Oxygen States in Perovskites from O K-edge X-ray Absorption Spectroscopy. *Journal of Physical Chemistry C*, **2014**, 118, 1856-1863	3.8	244
440	Sr3□xNa3xSi3O9□1.5x (x = 0.45) as a superior solid oxide-ion electrolyte for intermediate temperature-solid oxide fuel cells. *Energy and Environmental Science*, **2014**, 7, 1680-1684	35.4	61
439	Sulfur encapsulated in porous hollow CNTs@CNFs for high-performance lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2014**, 2, 10126-10130	13	87
438	Theoretical and Experimental Study of Vanadium-Based Fluorophosphate Cathodes for Rechargeable Batteries. *Chemistry of Materials*, **2014**, 26, 3089-3097	9.6	69
437	Dynamic Distortions in the YTiO3 Ferromagnet. *Journal of the Physical Society of Japan*, **2014**, 83, 084601	1.5	6
436	A solution-phase bifunctional catalyst for lithium-oxygen batteries. *Journal of the American Chemical Society*, **2014**, 136, 8941-6	16.4	356
435	Magnetic phase transformation induced by electrochemical lithium intercalation in Li1 + x EuTiO4 and Li2 + 2x Eu2Ti3O10 (0 □x □1) compounds. *Journal of Solid State Electrochemistry*, **2014**, 18, 2047-2060	2.6	7
434	Neutron Diffraction and Electrochemical Studies of Na0.79CoO2and Na0.79Co0.7Mn0.3O2Cathodes for Sodium-Ion Batteries. *Journal of the Electrochemical Society*, **2014**, 161, A961-A967	3.9	16
433	Mass enhancement versus Stoner enhancement in strongly correlated metallic perovskites: LaNiO3 and LaCuO3. *Physical Review B*, **2014**, 89,	3.3	36
432	A reversible Br2/Br□redox couple in the aqueous phase as a high-performance catholyte for alkali-ion batteries. *Energy and Environmental Science*, **2014**, 7, 1990-1995	35.4	119
431	Sustainable electrical energy storage through the ferrocene/ferrocenium redox reaction in aprotic electrolyte. *Angewandte Chemie - International Edition*, **2014**, 53, 11036-40	16.4	118

430	Structural investigation of the oxide-ion electrolyte with SrMO3 (M = Si/Ge) structure. *Journal of Materials Chemistry A*, **2014**, 2, 4355-4360	13	27
429	Low-Cost, Dendrite-Blocking Polymer-Sb2O3Separators for Lithium and Sodium Batteries. *Journal of the Electrochemical Society*, **2014**, 161, A1655-A1661	3.9	42
428	New routes to synthesizing an ordered perovskite CaCu3Fe2Sb2O12 and its magnetic structure by neutron powder diffraction. *Inorganic Chemistry*, **2014**, 53, 4281-3	5.1	16
427	New battery strategies with a polymer/Al2O3 separator. *Journal of Power Sources*, **2014**, 263, 52-58	8.9	60
426	A long-life lithium-ion battery with a highly porous TiNb2O7 anode for large-scale electrical energy storage. *Energy and Environmental Science*, **2014**, 7, 2220-2226	35.4	257
425	Carbon-Coated Li3Nd3W2O12: A High Power and Low-Voltage Insertion Anode with Exceptional Cycleability for Li-Ion Batteries. *Advanced Energy Materials*, **2014**, 4, 1301715	21.8	30
424	Reinvestigation of the electrochemical lithium intercalation in 2H- and 3R-NbS2. *Journal of Power Sources*, **2014**, 245, 27-32	8.9	35
423	A perspective on electrical energy storage. *MRS Communications*, **2014**, 4, 135-142	2.7	80
422	Y1□LaxVO3: Effects of doping on orbital ordering. *Physical Review B*, **2014**, 90,	3.3	6
421	Competition between heavy fermion and Kondo interaction in isoelectronic A-site-ordered perovskites. *Nature Communications*, **2014**, 5, 5818	17.4	12
420	Sustainable Electrical Energy Storage through the Ferrocene/Ferrocenium Redox Reaction in Aprotic Electrolyte. *Angewandte Chemie*, **2014**, 126, 11216-11220	3.6	29
419	Perspective on Engineering Transition-Metal Oxides. *Chemistry of Materials*, **2014**, 26, 820-829	9.6	69
418	Na2Ni2TeO6: Evaluation as a cathode for sodium battery. *Journal of Power Sources*, **2013**, 243, 817-821	8.9	73
417	Sodium Intercalation Behavior of Layered NaxNbS2 (0 □x □1). *Chemistry of Materials*, **2013**, 25, 1699-1705	9.6	50
416	Pressure dependence of the superconducting transition temperature of the filled skutterudite YFe4P12. *Physical Review B*, **2013**, 88,	3.3	5
415	Monoclinic Sr(1-x)Na(x)SiO(3-0.5x): new superior oxide ion electrolytes. *Journal of the American Chemical Society*, **2013**, 135, 10149-54	16.4	61
414	Magnetic measurements as a viable tool to assess the relative degrees of cation ordering and Mn3+ content in doped LiMn1.5Ni0.5O4 spinel cathodes. *Journal of Materials Chemistry A*, **2013**, 1, 10745	13	17
413	Stabilizing nanostructured solid oxide fuel cell cathode with atomic layer deposition. *Nano Letters*, **2013**, 13, 4340-5	11.5	131

412	Nanocolumnar Germanium Thin Films as a High-Rate Sodium-Ion Battery Anode Material. *Journal of Physical Chemistry C*, **2013**, 117, 18885-18890	3.8	150
411	Na3V2O2(PO4)2F/graphene sandwich structure for high-performance cathode of a sodium-ion battery. *Physical Chemistry Chemical Physics*, **2013**, 15, 13032-7	3.6	103
410	Sn-Cu nanocomposite anodes for rechargeable sodium-ion batteries. *ACS Applied Materials & Interfaces*, **2013**, 5, 8273-7	9.5	155
409	Li6Zr2O7 interstitial lithium-ion solid electrolyte. *Electrochimica Acta*, **2013**, 102, 446-450	6.7	19
408	An electrochemical device for three-dimensional (3D) diffusivity measurement in fuel cells. *Nano Energy*, **2013**, 2, 1004-1009	17.1	16
407	Mechanism of the CaIrO3 post-perovskite phase transition under pressure. *Physical Review B*, **2013**, 88,	3.3	11
406	Atomic Layer Deposition Functionalized Composite SOFC Cathode La0.6Sr0.4Fe0.8Co0.2O3-□ -Gd0.2Ce0.8O1.9: Enhanced Long-Term Stability. *Chemistry of Materials*, **2013**, 25, 4224-4231	9.6	59
405	Anomalous perovskite PbRuO3 stabilized under high pressure. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 20003-7	11.5	8
404	Hollow carbon-nanotube/carbon-nanofiber hybrid anodes for Li-ion batteries. *Journal of the American Chemical Society*, **2013**, 135, 16280-3	16.4	367
403	High-pressure synthesis of the BaIrO3 perovskite: A Pauli paramagnetic metal with a Fermi liquid ground state. *Physical Review B*, **2013**, 88,	3.3	18
402	Effect of an Internal Electric Field on the Redox Energies of ALnTiO4 (A = Na or Li, Ln = Y or Rare-Earth). *Chemistry of Materials*, **2013**, 25, 3852-3857	9.6	19
401	Temperature Dependence of Aliovalent-Vanadium Doping in LiFePO4 Cathodes. *Chemistry of Materials*, **2013**, 25, 768-781	9.6	75
400	Zhang-Rice physics and anomalous copper states in A-site ordered perovskites. *Scientific Reports*, **2013**, 3, 1834	4.9	35
399	In situ Raman spectroscopy of LiFePO4: size and morphology dependence during charge and self-discharge. *Nanotechnology*, **2013**, 24, 424009	3.4	50
398	Exploration of NaVOPO4 as a cathode for a Na-ion battery. *Chemical Communications*, **2013**, 49, 5280-2	5.8	70
397	Thermoelectric solid-oxide fuel cell with Ca2Co2O5 as cathode material. *RSC Advances*, **2013**, 3, 2336	3.7	8
396	Eliminative induction: A basis for arguing system confidence **2013**,		11
395	Measuring assurance case confidence using Baconian probabilities **2013**,		13

394	The Li-ion rechargeable battery: a perspective. *Journal of the American Chemical Society*, **2013**, 135, 1167-76	11.4	5747
393	Unusual structural evolution in KCuF3 at high temperatures by neutron powder diffraction. *Physical Review B*, **2013**, 87,	3.3	10
392	Evolution of strategies for modern rechargeable batteries. *Accounts of Chemical Research*, **2013**, 46, 1053-61	24.3	556
391	Study of atomic structure and electronic structure of an AA'3B4O12 double-perovskite CaCu3Ir4O12 using STEM imaging and EELS techniques. *Ultramicroscopy*, **2013**, 127, 94-9	3.1	10
390	Influence of thermal history on the electrochemical properties of Li[Ni0.5Mn1.5]O4. *Journal of Power Sources*, **2013**, 243, 260-266	8.9	26
389	Comparison of Li+ conductivity in Li3□Nb1□MxO4 (M=W, Mo) with that in Li3□xNixNbO4. *Materials Research Bulletin*, **2013**, 48, 1372-1375	5.1	1
388	A superior low-cost cathode for a Na-ion battery. *Angewandte Chemie - International Edition*, **2013**, 52, 1964-7	16.4	586
387	High-pressure synthesis, structure, and photoluminescence of a new KSbO3-type bismuth germanate Bi3Ge3O10.5. *Inorganic Chemistry*, **2013**, 52, 2138-41	5.1	4
386	Advanced Electrodes for High Power Li-ion Batteries. *Materials*, **2013**, 6, 1028-1049	3.5	97
385	Observation of electronic inhomogeneity and charge density waves in a bilayer La(2-2x)Sr(1+2x)Mn2O7 single crystal. *Physical Review Letters*, **2013**, 110, 217203	7.4	4
384	In Situ Raman Study of Phase Stability of □Li3V2(PO4)3 upon Thermal and Laser Heating. *Journal of Physical Chemistry C*, **2013**, 117, 11994-12002	3.8	29
383	Critical behavior of the ferromagnetic perovskites RTiO3 (R = Dy, Ho, Er, Tm, Yb) by magnetocaloric measurements. *Physical Review B*, **2013**, 87,	3.3	51
382	Aluminum-stabilized NASICON-structured Li3V2(PO4)3. *Journal of Materials Chemistry A*, **2013**, 1, 68-72	13	30
381	Effects of (Al,Ge) double doping on the thermoelectric properties of higher manganese silicides. *Journal of Applied Physics*, **2013**, 114, 173705	2.5	37
380	Determination of hole distribution in Sr14□CaxCu24O41 using soft x-ray absorption spectroscopy at the Cu L3 edge. *Physical Review B*, **2013**, 88,	3.3	13
379	Lattice effects on ferromagnetism in perovskite ruthenates. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13312-5	11.5	17
378	Possible Kondo physics near a metal-insulator crossover in the a-site ordered perovskite CaCu3Ir4O12. *Physical Review Letters*, **2013**, 111, 176403	7.4	21
377	Improving Li2O2 conductivity via polaron preemption: An ab initio study of Si doping. *Applied Physics Letters*, **2013**, 103, 073901	3.4	26

376	A Superior Low-Cost Cathode for a Na-Ion Battery. *Angewandte Chemie*, **2013**, 125, 2018-2021	3.6	66
375	Reversible lithium insertion in the garnet framework of Li3Nd3W2O12. *Electrochemistry Communications*, **2012**, 19, 135-137	5.1	15
374	Low-temperature synthesis of Li7La3Zr2O12 with cubic garnet-type structure. *Materials Research Bulletin*, **2012**, 47, 1229-1232	5.1	70
373	Use of B2O3 to improve Li+-ion transport in LiTi2(PO4)3-based ceramics. *Journal of Power Sources*, **2012**, 197, 310-313	8.9	23
372	Synthesis and electrochemical characterization of multi-cations doped spinel LiMn2O4 used for lithium ion batteries. *Journal of Power Sources*, **2012**, 199, 214-219	8.9	108
371	Sr0.7Ho0.3CoO3□ as a potential cathode material for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2012**, 199, 161-164	8.9	30
370	Electrochemical performance of Ba2Co9O14+SDC composite cathode for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2012**, 209, 40-43	8.9	17
369	Optimum lithium-ion conductivity in cubic Li7−xLa3Hf2−xTaxO12. *Journal of Power Sources*, **2012**, 209, 184-188	8.9	60
368	Ionic distribution and conductivity in lithium garnet Li7La3Zr2O12. *Journal of Power Sources*, **2012**, 209, 278-281	8.9	120
367	Magnetic coupling between Sm3+ and the canted spin in an antiferromagnetic SmFeO3 single crystal. *Physical Review B*, **2012**, 86,	3.3	57
366	Statics and dynamics of the highly correlated spin ice Ho2Ge2O7. *Physical Review B*, **2012**, 86,	3.3	29
365	Excellent stability of spinel LiMn2O4-based composites for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 24563		42
364	Electrochemical Behavior of a Graphite Electrode Prepared by Anodic Electrophoretic Deposition. *Journal of the Electrochemical Society*, **2012**, 159, A321-A324	3.9	8
363	Enhanced Charge-Transfer Kinetics by Anion Surface Modification of LiFePO4. *Chemistry of Materials*, **2012**, 24, 3212-3218	9.6	56
362	LiFeO2-Incorporated Li2MoO3 as a Cathode Additive for Lithium-Ion Battery Safety. *Chemistry of Materials*, **2012**, 24, 2673-2683	9.6	66
361	Two-phase interface in LiMnPO4 nanoplates. *Journal of Power Sources*, **2012**, 215, 116-121	8.9	38
360	Electrochemical probings of Li1+xVS2. *Electrochimica Acta*, **2012**, 78, 430-433	6.7	6
359	Sr1−xKxSi1−yGeyO3−0.5x: a new family of superior oxide-ion conductors. *Energy and Environmental Science*, **2012**, 5, 9626	35.4	56

358	Synthesis and Characterization of Sr2Cu(W1−xMox)O6: A Quasi-Two-Dimensional Magnetic System. *Chemistry of Materials*, **2012**, 24, 2764-2774	9.6	25
357	Characterization of the Double Perovskite Ba2BixSc0.2Co1.8−xO6−δ (x = 0.1, 0.2). *Chemistry of Materials*, **2012**, 24, 4114-4122	9.6	26
356	Experimental visualization of lithium conduction pathways in garnet-type Li7La3Zr2O12. *Chemical Communications*, **2012**, 48, 9840-2	5.8	79
355	Optimizing Li+ conductivity in a garnet framework. *Journal of Materials Chemistry*, **2012**, 22, 15357		409
354	Cobalt-based double-perovskite symmetrical electrodes with low thermal expansion for solid oxide fuel cells. *Journal of Materials Chemistry*, **2012**, 22, 225-231		83
353	Critical behavior of ferromagnetic perovskite ruthenates. *Physical Review B*, **2012**, 85,	3.3	23
352	The Prepared and Electrochemical Property of Mg Doped LiMnPO4Nanoplates as Cathode Materials for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2012**, 159, A995-A998	3.9	20
351	Role of Oxygen Vacancies on the Performance of Li[Ni0.5−xMn1.5+x]O4 (x = 0, 0.05, and 0.08) Spinel Cathodes for Lithium-Ion Batteries. *Chemistry of Materials*, **2012**, 24, 3101-3109	9.6	232
350	Reflections on Sixty Years of Solid State Chemistry. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2012**, 638, 1893-1896	1.3	0
349	Thermoelectric Solid-Oxide Fuel Cells with Extra Power Conversion from Waste Heat. *Chemistry of Materials*, **2012**, 24, 1401-1403	9.6	20
348	Prussian blue: a new framework of electrode materials for sodium batteries. *Chemical Communications*, **2012**, 48, 6544-6	5.8	758
347	Perovskite Sr0.95Ce0.05CoO3−δ loaded with copper nanoparticles as a bifunctional catalyst for lithium-air batteries. *Journal of Materials Chemistry*, **2012**, 22, 18902		127
346	Rechargeable batteries: challenges old and new. *Journal of Solid State Electrochemistry*, **2012**, 16, 2019-2029		262
345	Quantitative determination of Mn3+ content in LiMn1.5Ni0.5O4 spinel cathodes by magnetic measurements. *Applied Physics Letters*, **2012**, 100, 213909	3.4	27
344	Spin-state transition in Ba2Co9O14. *Physical Review B*, **2012**, 85,	3.3	12
343	Pressure effect on the structural transition and suppression of the high-spin state in the triple-layer T'-La4Ni3O8. *Physical Review Letters*, **2012**, 108, 236403	7.4	29
342	Magnetic and transport properties of layered LixCo0.5RhO3. *Applied Physics Letters*, **2012**, 101, 102409	3.4	1
341	Chemical pressure effects on pyrochlore spin ice. *Physical Review Letters*, **2012**, 108, 207206	7.4	57

340	Insight into Fe Incorporation in Li3V2(PO4)3/C Cathode Material. *Journal of the Electrochemical Society*, **2012**, 159, A1573-A1578	3.9	40
339	High-pressure synthesis and physical properties of perovskite and post-perovskite Ca1−xSrxIrO3. *Physical Review B*, **2011**, 83,	3.3	34
338	Magnetic structure of LaCrO3 perovskite under high pressure from in situ neutron diffraction. *Physical Review Letters*, **2011**, 106, 057201	7.4	50
337	Hydrothermal synthesis and electrochemical properties of Li3V2(PO4)3/C-based composites for lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2011**, 3, 3772-6	9.5	122
336	Oxygen-Deficient Perovskite Sr0.7Y0.3CoO2.65 as a Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. *Chemistry of Materials*, **2011**, 23, 5037-5044	9.6	54
335	Electrochemical Lithium Intercalation in Monoclinic Nb12O29. *Chemistry of Materials*, **2011**, 23, 2292-2294	9.6	40
334	High-pressure sequence of Ba3NiSb2O9 structural phases: new S = 1 quantum spin liquids based on Ni2+. *Physical Review Letters*, **2011**, 107, 197204	7.4	104
333	A perovskite oxide optimized for oxygen evolution catalysis from molecular orbital principles. *Science*, **2011**, 334, 1383-5	33.3	3392
332	NASICON-type Li1+2xZr2−xCax(PO4)3 with high ionic conductivity at room temperature. *RSC Advances*, **2011**, 1, 1728	3.7	49
331	Design principles for oxygen-reduction activity on perovskite oxide catalysts for fuel cells and metal-air batteries. *Nature Chemistry*, **2011**, 3, 546-50	17.6	1940
330	Lithium Distribution in Aluminum-Free Cubic Li7La3Zr2O12. *Chemistry of Materials*, **2011**, 23, 3587-3589	9.6	160
329	Nickel foam supported Sn–Co alloy film as anode for lithium ion batteries. *Journal of Power Sources*, **2011**, 196, 10673-10678	8.9	57
328	High lithium ion conduction in garnet-type Li6La3ZrTaO12. *Electrochemistry Communications*, **2011**, 13, 1289-1292	5.1	110
327	Monodisperse porous LiFePO4 microspheres for a high power Li-ion battery cathode. *Journal of the American Chemical Society*, **2011**, 133, 2132-5	16.4	567
326	Development and challenges of LiFePO4 cathode material for lithium-ion batteries. *Energy and Environmental Science*, **2011**, 4, 269-284	35.4	898
325	A novel solid oxide redox flow battery for grid energy storage. *Energy and Environmental Science*, **2011**, 4, 4942	35.4	124
324	Aqueous cathode for next-generation alkali-ion batteries. *Journal of the American Chemical Society*, **2011**, 133, 5756-9	16.4	211
323	Exchange field on the rare earth Sm3+ in a single crystal perovskite SmMnO3. *Physical Review B*, **2011**, 84,	3.3	35

322	Comments on charge density waves. *Journal of Solid State Electrochemistry*, **2011**, 15, 285-291	2.6	4
321	Rechargeable alkali-ion cathode-flow battery. *Journal of Materials Chemistry*, **2011**, 21, 10113		115
320	The influence on Fermi energy of Li-site change in LizTi1□NiyS2 on crossing z = 1. *Journal of Materials Chemistry*, **2011**, 21, 10160		2
319	Behavior of Li Guest in KNb5O13 Host with One-Dimensional Tunnels and Multiple Interstitial Sites. *Chemistry of Materials*, **2011**, 23, 3210-3216	9.6	17
318	Facile synthesis of monodisperse porous Co3O4 microspheres with superior ethanol sensing properties. *Chemical Communications*, **2011**, 47, 12852-4	5.8	103
317	CoMn2O4 Spinel Nanoparticles Grown on Graphene as Bifunctional Catalyst for Lithium-Air Batteries. *Journal of the Electrochemical Society*, **2011**, 158, A1379	3.9	210
316	New Anode Framework for Rechargeable Lithium Batteries. *Chemistry of Materials*, **2011**, 23, 2027-2029	9.6	280
315	3-V Full Cell Performance of Anode Framework TiNb2O7/Spinel LiNi0.5Mn1.5O4. *Chemistry of Materials*, **2011**, 23, 3404-3407	9.6	162
314	Exfoliation from carbon nanotubes versus tube size on lithium insertion. *Electrochemistry Communications*, **2011**, 13, 125-128	5.1	17
313	Sr2CoMoO6 anode for solid oxide fuel cell running on H2 and CH4 fuels. *Journal of Power Sources*, **2011**, 196, 1738-1743	8.9	69
312	Fe-based perovskites as electrodes for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 5478-5484	8.9	21
311	Li1.2Zr1.9Ca0.1(PO4)3, a room-temperature Li-ion solid electrolyte. *Journal of Power Sources*, **2011**, 196, 7760-7762	8.9	46
310	Crossover from itinerant-electron to localized-electron behavior in Sr(1-x)Ca(x)CrO3 perovskite solid solution. *Journal of Physics Condensed Matter*, **2011**, 23, 355601	1.8	7
309	Spin-state transitions in PrCoO3 studied with neutron powder diffraction. *Physical Review B*, **2011**, 84,	3.3	10
308	Evidence of three-dimensional Ising ferromagnetism in the A-site-ordered perovskite CaCu3Ge4O12. *Physical Review B*, **2011**, 83,	3.3	6
307	Spin and orbital ordering in Y1□LaxVO3. *Physical Review B*, **2011**, 84,	3.3	20
306	High pressure route to generate magnetic monopole dimers in spin ice. *Nature Communications*, **2011**, 2, 478	17.4	59
305	Questionable collapse of the bulk modulus in CrN. *Nature Materials*, **2010**, 9, 284-284	27	2

304	Post-silicon is too late avoiding the $50 million paperweight starts with validated designs **2010**,		13
303	Magnetic and Transport Properties of Ba2Co9O14 and Ba1.9A0.1Co9O14 (A=La or Na). *Journal of the Physical Society of Japan*, **2010**, 79, 114713	1.5	7
302	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
301	Intrinsic structural distortion and superexchange interaction in the orthorhombic rare-earth perovskites RCrO3. *Physical Review B*, **2010**, 81,	3.3	94
300	Evolution of ferromagnetism in orthorhombic perovskites Sr1PbxRuO3. *Physical Review B*, **2010**, 81,	3.3	22
299	Rate Properties and Elevated-Temperature Performances of LiNi[sub 0.5]Cr[sub 2x]Mn[sub 1.5]O[sub 4] (0x0.8) as 5 V Cathode Materials for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2010**, 157, A1269	3.9	49
298	A new pnictide superconductor without iron. *Journal of the American Chemical Society*, **2010**, 132, 908-9	16.4	31
297	Defective Ni Perovskites as Cathode Materials in Intermediate-Temperature Solid-Oxide Fuel Cells: A StructureProperties Correlation. *Chemistry of Materials*, **2010**, 22, 1071-1079	9.6	44
296	Pressure dependence of metal-insulator transition in perovskites RNiO3 (R=Eu, Y, Lu). *Physical Review B*, **2010**, 82,	3.3	19
295	Enhanced thermoelectric power near the quantum phase transition in the itinerant-electron ferromagnet MnSi. *Physical Review B*, **2010**, 82,	3.3	10
294	SrCo0.95Sb0.05O3as Cathode Material for High Power Density Solid Oxide Fuel Cells*Chemistry of Materials*, **2010**, 22, 789-798	9.6	77
293	Magnetic properties of R2Mn2O7 pyrochlore rare-earth solid solutions. *Physical Review B*, **2010**, 82,	3.3	5
292	Stress-induced perovskite to post-perovskite transition in CaIrO3 at room temperature. *Physical Review B*, **2010**, 82,	3.3	12
291	Challenges for Rechargeable Li Batteries. *Chemistry of Materials*, **2010**, 22, 587-603	9.6	7303
290	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
289	Structure, morphology, and cathode performance of Li1[Ni0.5Mn1.5]O4 prepared by coprecipitation with oxalic acid. *Journal of Power Sources*, **2010**, 195, 2918-2923	8.9	47
288	Preparation of C-LiFePO4/polypyrrole lithium rechargeable cathode by consecutive potential steps electrodeposition. *Journal of Power Sources*, **2010**, 195, 5351-5359	8.9	58
287	Thermal conductivity, electron transport, and magnetic properties of single-crystal Ca3Co2O6. *Physical Review B*, **2009**, 79,	3.3	25

286	Orbital hybridization in RVO3 perovskites: A high-pressure study. *Physical Review B*, **2009**, 80,	3.3	23
285	Spin fluctuations in the antiferromagnetic metal Nb12O29. *Physical Review B*, **2009**, 80,	3.3	15
284	Transition from a weak ferromagnetic insulator to an exchange-enhanced paramagnetic metal in the BaIrO3 polytypes. *Physical Review B*, **2009**, 80,	3.3	16
283	Reinvestigation of Li[sub 1−]Ti[sub y]V[sub 1−]S[sub 2] Electrodes in Suitable Electrolyte: Highly Improved Electrochemical Properties. *Electrochemical and Solid-State Letters*, **2009**, 12, A73		11
282	Neutron Depth Profiling Applications to Lithium-Ion Cell Research. *Journal of the Electrochemical Society*, **2009**, 156, A886	3.9	34
281	Study of the onset of superconductivity in underdoped La2−SrxCuO4. *New Journal of Physics*, **2009**, 11, 013057	2.9	4
280	Locating redox couples in the layered sulfides with application to Cu[Cr2]S4. *Journal of Solid State Chemistry*, **2009**, 182, 2904-2911	3.3	33
279	Enhancement of the Nernst effect by stripe order in a high-T(c) superconductor. *Nature*, **2009**, 458, 743-5	30.4	117
278	Reduction of the bulk modulus at high pressure in CrN. *Nature Materials*, **2009**, 8, 947-51	27	135
277	Linear temperature dependence of resistivity and change in the Fermi surface at the pseudogap critical point of a high-Tc superconductor. *Nature Physics*, **2009**, 5, 31-34	16.2	151
276	Double-Perovskite Anode Materials Sr2MMoO6 (M = Co, Ni) for Solid Oxide Fuel Cells. *Chemistry of Materials*, **2009**, 21, 2319-2326	9.6	189
275	Lithium Ion Intercalation Performance of Niobium Oxides: KNb5O13 and K6Nb10.8O30. *Chemistry of Materials*, **2009**, 21, 4753-4755	9.6	75
274	Thermopower across the stripe critical point of La1.6−Nd0.4SrxCuO4: Evidence for a quantum critical point in a hole-doped high-Tc superconductor. *Physical Review B*, **2009**, 79,	3.3	33
273	Metal-metal transition in perovskite PbRuO3. *Physical Review B*, **2009**, 80,	3.3	18
272	A new perovskite polytype in the high-pressure sequence of BaIrO(3). *Journal of the American Chemical Society*, **2009**, 131, 7461-9	16.4	31
271	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. *Journal of the Electrochemical Society*, **2009**, 156, A703	3.9	40
270	High-Rate LiFePO4 Lithium Rechargeable Battery Promoted by Electrochemically Active Polymers. *Chemistry of Materials*, **2008**, 20, 7237-7241	9.6	313
269	Intrinsic structural distortion in orthorhombic perovskite oxides. *Physical Review B*, **2008**, 77,	3.3	114

268	Critical behavior of the ferromagnetic perovskite BaRuO3. *Physical Review Letters*, **2008**, 101, 077206	7.4	42
267	Transition from orbital liquid to Jahn-Teller insulator in orthorhombic perovskites RTiO3. *Physical Review Letters*, **2008**, 101, 087205	7.4	50
266	Magnetic state of La1.36Sr1.64Mn2O7 probed by magnetic force microscopy. *Physical Review B*, **2008**, 77,	3.3	10
265	3D Framework Structure of a New Lithium Thiophosphate, LiTi2(PS4)3, as Lithium Insertion Hosts. *Chemistry of Materials*, **2008**, 20, 470-474	9.6	22
264	High-pressure synthesis of the cubic perovskite BaRuO3 and evolution of ferromagnetism in ARuO3 (A = Ca, Sr, Ba) ruthenates. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7115-9	11.5	136
263	Frustrated superexchange interaction versus orbital order in a LaVO3 crystal. *Physical Review Letters*, **2008**, 100, 046401	7.4	17
262	Orbital mixing and ferromagnetism in LaMn1−xGaxO3. *Physical Review B*, **2008**, 77,	3.3	28
261	Pressure induced metallization in ACrO3 in perovskite compounds. *Journal of Physics: Conference Series*, **2008**, 121, 022017	0.3	2
260	Interatomic versus intraatomic Ru interactions in perovskites. *Journal of Solid State Chemistry*, **2008**, 181, 2989-2993	3.3	4
259	Lithium Intercalation into ATi2(PS4)3 (A=Li, Na, Ag). *Electrochemistry Communications*, **2008**, 10, 497-501	5.1	14
258	Breakdown of magnetic order in Mott insulators with frustrated superexchange interaction. *Physical Review B*, **2008**, 78,	3.3	25
257	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
256	Orbital fluctuations and orbital flipping in RVO3 perovskites. *Physical Review Letters*, **2007**, 99, 197201	7.4	28
255	Orbital ordering in orthorhombic perovskites. *Journal of Materials Chemistry*, **2007**, 17, 2394		51
254	Enhanced pressure dependence of magnetic exchange in A2+[V2]O4 spinels approaching the itinerant electron limit. *Physical Review Letters*, **2007**, 99, 187201	7.4	51
253	Electrochemical performance of La-doped Sr2MgMoO6−δ in natural gas. *Electrochemistry Communications*, **2007**, 9, 1881-1885	5.1	69
252	Cathode materials: A personal perspective. *Journal of Power Sources*, **2007**, 174, 996-1000	8.9	170
251	Alternative anode materials for solid oxide fuel cells. *Journal of Power Sources*, **2007**, 173, 1-10	8.9	335

250	Electronic, Optical, and Magnetic Properties of LiFePO4: Small Magnetic Polaron Effects. *Chemistry of Materials*, **2007**, 19, 3740-3747	9.6	193
249	VO: A strongly correlated metal close to a Mott-Hubbard transition. *Physical Review B*, **2007**, 76,	3.3	15
248	Superexchange interaction in orbitally fluctuating RVO3. *Physical Review Letters*, **2007**, 99, 156401	7.4	43
247	Structural transformation and magnetic competition in Yb(Mn1⊠Fex)O3. *Physical Review B*, **2007**, 76,	3.3	18
246	Correlation between the structure and the spin state in R1⊠SrxCoO3 (R=La, Pr, and Nd). *Physical Review B*, **2007**, 76,	3.3	41
245	LiFePO4 High Electrochemical Performance at 60{degree sign}C with Purity Controlled by SQUID Magnetometry. *ECS Transactions*, **2006**, 3, 119-129	1	3
244	Specific heat of geometrically frustrated and multiferroic RMn1⊠GaxO3 (R=Ho,Y). *Physical Review B*, **2006**, 74,	3.3	17
243	Systematic studies on effects of cationic ordering on structural and magnetic properties in Sr2FeMoO6. *Physical Review B*, **2006**, 73,	3.3	53
242	Reduction Fe3+ of Impurities in LiFePO4 from Pyrolysis of Organic Precursor Used for Carbon Deposition. *Journal of the Electrochemical Society*, **2006**, 153, A1692	3.9	160
241	Double perovskites as anode materials for solid-oxide fuel cells. *Science*, **2006**, 312, 254-7	33.3	827
240	Synthesis and Characterization of Sr[sub 2]MgMoO[sub 6] *Journal of the Electrochemical Society*, **2006**, 153, A1266	3.9	162
239	Anomalous electronic state in CaCrO3 and SrCrO3. *Physical Review Letters*, **2006**, 96, 046408	7.4	75
238	Ferromagnetic behavior of carbon nanospheres encapsulating silver nanoparticles. *Physical Review B*, **2006**, 74,	3.3	22
237	Unusual evolution of the magnetic interactions versus structural distortions in RMnO3 perovskites. *Physical Review Letters*, **2006**, 96, 247202	7.4	170
236	Hexagonal versus perovskite phase of manganite RMnO3 (R=Y,Ho,Er,Tm,Yb,Lu). *Physical Review B*, **2006**, 74,	3.3	144
235	Selective synthesis of TbMn(2)O(5) nanorods and TbMnO(3) micron crystals. *Journal of the American Chemical Society*, **2006**, 128, 14454-5	16.4	55
234	Improving Lithium Batteries by Tethering Carbon-Coated LiFePO[sub 4] to Polypyrrole. *Journal of the Electrochemical Society*, **2006**, 153, A2282	3.9	152
233	Crystal and Magnetic Structure of the Orthorhombic Perovskite YbMnO3. *Chemistry of Materials*, **2006**, 18, 2130-2134	9.6	60

232	Suppression of ferromagnetic double exchange by vibronic phase segregation. *Physical Review Letters*, **2006**, 96, 016402	7.4	34
231	Exchange interaction in the insulating phase of RNiO3. *Physical Review Letters*, **2005**, 95, 127204	7.4	52
230	Effect of Ga doping on the multiferroic properties of RMn1−xGaxO3 (R=Ho,Y). *Physical Review B*, **2005**, 72,	3.3	56
229	Localized or itinerant TiO3electrons in RTiO3perovskites. *Journal of Physics Condensed Matter*, **2005**, 17, 7395-7406	1.8	71
228	Bulk modulus anomaly in RCoO3 (R=La, Pr, and Nd). *Physical Review B*, **2005**, 71,	3.3	80
227	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
226	Universal octahedral-site distortion in orthorhombic perovskite oxides. *Physical Review Letters*, **2005**, 94, 065501	7.4	96
225	Pressure-induced non-Fermi-liquid behavior of PrNiO3. *Physical Review Letters*, **2005**, 94, 226602	7.4	68
224	Semiconductor-semiconductor transition in Mg[Ti2]O4. *Physical Review B*, **2005**, 72,	3.3	25
223	Role of Doping and Dimensionality in the Superconductivity of NaxCoO2. *Chemistry of Materials*, **2005**, 17, 1965-1968	9.6	34
222	Synthesis and Electrical Properties of Dense Ce0.9Gd0.1O1.95 Ceramics. *Journal of the American Ceramic Society*, **2005**, 81, 357-362	3.8	197
221	Superior Perovskite Oxide-Ion Conductor; Strontium- and Magnesium-Doped LaGaO3: I, Phase Relationships and Electrical Properties. *Journal of the American Ceramic Society*, **2005**, 81, 2565-2575	3.8	381
220	Superior Perovskite Oxide-Ion Conductor; Strontium- and Magnesium-Doped LaGaO3: II, ac Impedance Spectroscopy. *Journal of the American Ceramic Society*, **2005**, 81, 2576-2580	3.8	98
219	Superior Perovskite Oxide-Ion Conductor; Strontium- and Magnesium-Doped LaGaO3: III, Performance Tests of Single Ceramic Fuel Cells. *Journal of the American Ceramic Society*, **2005**, 81, 2581-2585	3.8	128
218	Coexistence of two electronic phases in LaTiO3+δ (0.01≤δ≤0.12) and their evolution with δ. *Physical Review B*, **2005**, 71,	3.3	10
217	Opposing spin-canting mechanism in single-crystal LuVO3 and YVO3. *Physical Review B*, **2005**, 72,	3.3	28
216	Evidence for two electronic phases in Y1−xLaxTiO3 from thermoelectric and magnetic susceptibility measurements. *Physical Review B*, **2005**, 71,	3.3	12
215	Effect of high-pressure annealing on magnetoresistance in manganese perovskites. *Journal of Applied Physics*, **2005**, 98, 033911	2.5	3

214	BOND-LENGTH FLUCTUATIONS IN TRANSITION-METAL OXIDES. *Modern Physics Letters B*, **2005**, 19, 1057-1081	1.6	11
213	Detection of temperature- and stress-induced modifications of LaCoO3 by micro-Raman spectroscopy. *Physical Review B*, **2005**, 72,	3.3	46
212	Suppression of the magnetic phase transition in manganites close to the metal-insulator crossover. *Physical Review B*, **2004**, 70,	3.3	28
211	Competing magnetic phases in mixed-valent manganese oxide perovskites. *Physical Review B*, **2004**, 70,	3.3	38
210	Unusually strong orbit-lattice interactions in the RVO3 perovskites. *Physical Review Letters*, **2004**, 93, 235901	7.4	49
209	Ferromagnetism in LaCoO3. *Physical Review B*, **2004**, 70,	3.3	129
208	Structure anomaly and electronic transition in RNiO3 (R=La,Pr,Gd). *Physical Review B*, **2004**, 70,	3.3	24
207	Bond-length fluctuations and the spin-state transition in LCoO3 (L=La, Pr, and Nd). *Physical Review B*, **2004**, 69,	3.3	164
206	Chemical bonding and electronic structure of RNiO3 (R=rare earth). *Physical Review B*, **2004**, 69,	3.3	73
205	X-ray diffraction, magnetic, and transport study of lattice instabilities and metal-insulator transition in CaV1TixO3(0?x?0.4). *Physical Review B*, **2004**, 69,	3.3	10
204	Electronic and ionic transport properties and other physical aspects of perovskites. *Reports on Progress in Physics*, **2004**, 67, 1915-1993	14.4	483
203	Thermal conductivity of La2SrxCuO4(0.05 ?x? 0.22). *New Journal of Physics*, **2004**, 6, 143-143	2.9	2
202	V V bond length fluctuations in VO x. *Europhysics Letters*, **2003**, 61, 527-533	1.6	7
201	Rare earth manganese perovskites. *Fundamental Theories of Physics*, **2003**, 249-351	0.8	20
200	Bond-length fluctuations in the copper oxide superconductors. *Journal of Physics Condensed Matter* , **2003**, 15, R257-R326	1.8	20
199	Oxide-Ion Electrolytes. *Annual Review of Materials Research*, **2003**, 33, 91-128	12.8	534
198	Spin-glass to ferromagnet transition in LaMn1ScxO3. *Solid State Sciences*, **2002**, 4, 297-304	3.4	38
197	The transport properties in strongly correlated BaCo0.9Ni0.1S1.87. *Journal of Physics Condensed Matter*, **2002**, 14, 10699-10704	1.8	2

196	Ordering of bond length fluctuations in the copper-oxide superconductors. *Europhysics Letters*, **2002**, 57, 550-556	1.6	13
195	Evolution of polaron size in La2SrxNiO4. *Physical Review B*, **2002**, 66,	3.3	17
194	Phase competition in L0.5A0.5MnO3 perovskites. *Physical Review B*, **2002**, 66,	3.3	32
193	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
192	Oxide-ion conducting ceramics for solid oxide fuel cells. *Journal of Materials Science*, **2001**, 36, 1093-1098	4.3	104
191	Reduced area specific resistance for iron-based metallic interconnects by surface oxide coatings. *Materials Research Bulletin*, **2001**, 36, 81-95	5.1	75
190	Oxygen Permeation Through Cobalt-Containing Perovskites: Surface Oxygen Exchange vs. Lattice Oxygen Diffusion. *Journal of the Electrochemical Society*, **2001**, 148, E203	3.9	61
189	Nanocrystalline Lithium Manganese Oxide Spinel Cathode for Rechargeable Lithium Batteries. *Electrochemical and Solid-State Letters*, **2001**, 4, A49		52
188	Instability of brannerite cathode materials upon lithium insertion. *Solid State Sciences*, **2001**, 3, 875-879		12
187	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
186	Effect of Ball-Milling on 3-V Capacity of LithiumManganese Oxospinel Cathodes. *Chemistry of Materials*, **2001**, 13, 1758-1764	9.6	89
185	Oxide-ion conductors by design. *Nature*, **2000**, 404, 821, 823	50.4	212
184	Li [Mn2] O 4 Spinel Cathode Material Showing No Capacity Fading in the 3 V Range. *Journal of the Electrochemical Society*, **2000**, 147, 3621	3.9	51
183	Transition from itinerant to polaronic conduction in La 1 x Sr x CoO 3 perovskites. *Europhysics Letters*, **1999**, 45, 399-405	1.6	38
182	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
181	Mapping of Redox Energies. *Molecular Crystals and Liquid Crystals*, **1998**, 311, 1-14		10
180	Tuning the Position of the Redox Couples in Materials with NASICON Structure by Anionic Substitution. *Journal of the Electrochemical Society*, **1998**, 145, 1518-1520	3.9	162
179	JAHN-TELLER PHENOMENA IN SOLIDS. *Annual Review of Materials Research*, **1998**, 28, 1-27		196

178	Extrinsic giant magnetoresistance in chromium (IV) oxide, CrO2. *Applied Physics Letters*, **1998**, 72, 984-986	3.4	94
177	Keggin-Type Heteropolyacids as Electrode Materials for Electrochemical Supercapacitors. *Journal of the Electrochemical Society*, **1998**, 145, 737-743	3.9	71
176	Electrode Performance Test on Single Ceramic Fuel Cells Using as Electrolyte Sr- and Mg-Doped LaGaO3. *Journal of the Electrochemical Society*, **1997**, 144, 3620-3624	3.9	134
175	Pressure and Isotope Effects in the Manganese-Oxide Perovskites. *Materials Research Society Symposia Proceedings*, **1997**, 494, 335		6
174	Electronic structure of CMR manganites (invited). *Journal of Applied Physics*, **1997**, 81, 5330-5335	2.5	168
173	Phospho-olivines as Positive-Electrode Materials for Rechargeable Lithium Batteries. *Journal of the Electrochemical Society*, **1997**, 144, 1188-1194	3.9	6061
172	Transport and Magnetic Properties of the Perovskites La1-yMnO3 and LaMn1-zO3. *Chemistry of Materials*, **1997**, 9, 1467-1474	9.6	134
171	Pressure-Induced Polaronic to Itinerant Electronic Transition in La1⊠SrxMnO3 Crystals. *Physical Review Letters*, **1997**, 79, 3234-3237	7.4	150
170	Sign Reversal of the Mn-O Bond Compressibility in La1.2Sr1.8Mn2O7 below TC: Exchange Striction in the Ferromagnetic State. *Physical Review Letters*, **1997**, 78, 1568-1571	7.4	125
169	Mapping of Transition Metal Redox Energies in Phosphates with NASICON Structure by Lithium Intercalation. *Journal of the Electrochemical Society*, **1997**, 144, 2581-2586	3.9	299
168	Effect of Structure on the Fe3 + / Fe2 + Redox Couple in Iron Phosphates. *Journal of the Electrochemical Society*, **1997**, 144, 1609-1613	3.9	1030
167	Vibronic states in La{2-x}BaxCuO4BaxCuO4. *Journal of Superconductivity and Novel Magnetism*, **1997**, 10, 309-314		5
166	Characterization of Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic Fuel Cell. *Journal of the Electrochemical Society*, **1996**, 143, 3630-3636	3.9	107
165	Chemical and Magnetic Characterization of Spinel Materials in the LiMn2O4⊠i2Mn4O9⊠i4Mn5O12System. *Journal of Solid State Chemistry*, **1996**, 123, 255-266	3.3	207
164	Fuel cells with doped lanthanum gallate electrolyte. *Journal of Power Sources*, **1996**, 63, 47-51	8.9	89
163	Sol-Gel Synthesis of a New Oxide-Ion Conductor Sr- and Mg-Doped LaGaO3 Perovskite. *Journal of the American Ceramic Society*, **1996**, 79, 1100-1104	3.8	141
162	Identification of a new type of electronic state in the magnetoresistive orthomanganites. *Nature*, **1996**, 381, 770-772	50.4	76
161	Non-adiabatic electron-lattice interactions in the copper-oxide superconductors. *Journal of Superconductivity and Novel Magnetism*, **1995**, 8, 541-544		21

160	Magnetic and transport properties of CeVO3. *Journal of Solid State Chemistry*, **1995**, 119, 24-35	3.3	30
159	Transport properties of Cu-O chains in Sr2CuO3+ delta. *Physical Review B*, **1995**, 52, 16101-16105	3.3	11
158	Comment on "Quasiclassical transport at a van Hove singularity in cuprate superconductors". *Physical Review Letters*, **1995**, 75, 979	7.4	5
157	Chain contribution to the Seebeck coefficient in YBa2Cu3O7- delta. *Physical Review B*, **1995**, 51, 3250-3253	3.3	28
156	Thermoelectric power in single-layer copper oxides. *Physical Review B*, **1995**, 51, 3104-3115	3.3	80
155	Magnetic studies of some orthovanadates. *Physical Review B*, **1995**, 52, 324-334	3.3	115
154	Localized-itinerant electronic transition in the perovskite system La1-xCaxVO3. *Physical Review B*, **1995**, 52, 8776-8787	3.3	35
153	Localized-Itinerant Electron Transitions in the Orthomanganites. *Materials Research Society Symposia Proceedings*, **1995**, 401, 515		2
152	Solid electrolytes. *Pure and Applied Chemistry*, **1995**, 67, 931-938	2.1	13
151	Crystalline solid electrolytes II: Material design **1994**, 43-73		1
150	Effect of pressure and quenching on superconductive La2CuO4+ delta (0Physical Review B, **1994**, 50, 4168-4180	3.3	29
149	Superconductor-to-metal transition in overdoped La2-xSrxCuO4. *Physical Review B*, **1994**, 49, 9084-9090	3.3	32
148	Local structure, magnetism, and superconductivity in Sr analogs of Fe-doped YBa2Cu3 Fe y O6+x. *Hyperfine Interactions*, **1994**, 93, 1665-1670	0.8	
147	Improving Stabilized Zirconia with Strontium Gallate. *Journal of the American Ceramic Society*, **1994**, 77, 1954-1956	3.8	11
146	Vibronic dispersion in the copper oxide superconductors. *Physical Review B*, **1994**, 49, 4251-4260	3.3	44
145	Thallium solubility range in Tl2 Ba2Can CunO2n+ 4 superconductors. *Journal of Materials Chemistry*, **1994**, 4, 1627-1633		5
144	Improved Oxide Ion Electrolytes. *Materials Research Society Symposia Proceedings*, **1994**, 369, 333		4
143	Perovskites as Oxide-Ion Electrolytes. *Materials Research Society Symposia Proceedings*, **1994**, 369, 343		1

142	Copper oxide superconductors: A distinguishable thermodynamic state. *Physical Review B*, **1993**, 47, 5275-5286	3.3	96
141	Copper-oxygen bond length and self-doping in R2CuO4 (R=Pr, Nd, Sm, Eu, Gd). *Physical Review B*, **1993**, 47, 5477-5480	3.3	19
140	Electronic structure of BaSn1-xSbxO3 studied by photoemission spectroscopy. *Physical Review B*, **1993**, 47, 1788-1793	3.3	21
139	Metal-metal versus anion-anion bonding in B31 structures. *Journal of Applied Physics*, **1993**, 73, 5704-5706	2.5	3
138	Effect of annealing on the local microstructure and Tc in Y1-zCazBa2(Cu0.90Co0.10)3O6+y. *Physical Review B*, **1992**, 46, 3041-3049	3.3	14
137	First-order changes in ionic/covalent bonding. *Ferroelectrics*, **1992**, 130, 77-86	0.6	25
136	Hole concentration and critical temperature in Tl2 y Ba2 zLazCuO6 x. *Journal of Materials Chemistry*, **1992**, 2, 317-321		1
135	Oxygen reduction on Ru-oxide pyrochlores bonded to a proton-exchange membrane. *Journal of Applied Electrochemistry*, **1992**, 22, 140-150	2.6	47
134	CRYSTAL CHEMISTRY AND SUPERCONDUCTIVITY IN THE COPPER OXIDES **1991**, 1-56		4
133	Electron-doped superconductivity at 40 K in the infinite-layer compound Sr1 yNdyCu02. *Nature*, **1991**, 351, 549-551	50.4	414
132	Effect of percolation in an intergrowth structure. *Journal of Physics Condensed Matter*, **1991**, 3, 2479-2497	1.8	5
131	Lattice instabilities near the critical V-V separation for localized versus itinerant electrons in LiV1-yMyO2 (M=Cr or Ti) Li1-xVO2. *Physical Review B*, **1991**, 43, 10170-10178	3.3	55
130	Pressure-induced high-spin to low-spin transition in CaFeO3. *Physical Review Letters*, **1991**, 67, 3267-3270	7.4	109
129	Charge fluctuations and an ionic covalent transition in La2 SrxCuO4. *Journal of Materials Chemistry*, **1991**, 1, 715-724		27
128	Electron diffraction and microscopy study of oxygen ordering in YBa2Cu3O7- *Journal of Materials Research*, **1990**, 5, 9-16	2.5	38
127	The Molecular Engineering of Oxides: 1989 MRS Fall Meeting Von Hippel Award Address. *MRS Bulletin*, **1990**, 15, 23-30	3.2	6
126	New Oxide-Ion Electrolytes. *Materials Research Society Symposia Proceedings*, **1990**, 210, 287		2
125	Hydrogen Evolution on Sr x NbO3 (0.7 x 0.95) in Acid. *Journal of the Electrochemical Society*, **1990**, 137, 910-913	3.9	13

124	Surface protonation and electrochemical activity of oxides in aqueous solution. *Journal of the American Chemical Society*, **1990**, 112, 2076-2082	16.4	163
123	Correlation bag and high-Tc superconductivity. *Physical Review B*, **1990**, 42, 4276-4287	3.3	48
122	Thermoelectric power of high-Tc superconductors. *Physical Review B*, **1990**, 41, 8723-8731	3.3	49
121	c-axis oxygen in copper oxide superconductors. *Physical Review B*, **1990**, 42, 138-149	3.3	36
120	X-ray photoemission spectroscopy study of LaCuO3. *Physical Review B*, **1990**, 41, 11572-11575	3.3	31
119	Phase transitions in high-T c superconductive oxides. *Phase Transitions*, **1990**, 22, 79-101	1.3	7
118	Chemical and structural relationships in high-Tcmaterials. *Superconductor Science and Technology*, **1990**, 3, 26-37	3.1	133
117	Ceramic Superconductors. *Advances in Chemistry Series*, **1989**, 287-321		
116	Evidence for some suppression of magnetic moments in superconductive copper oxides. *Physica C: Superconductivity and Its Applications*, **1989**, 157, 439-445	1.3	19
115	NMR relaxation times and proton motion in HxWO3. *Applied Physics A: Solids and Surfaces*, **1989**, 49, 65-68		2
114	A Nafion -bound platinized carbon electrode for oxygen reduction in solid polymer electrolyte cells. *Journal of Applied Electrochemistry*, **1989**, 19, 383-386	2.6	19
113	Efficient oxygen reduction in alkaline solution with platinum phthalocyanine on porous carbon. *Journal of Applied Electrochemistry*, **1989**, 19, 105-107	2.6	16
112	Comment on "Identification of a superoxide in superconducting La2CuO4+ delta by x-ray photoelectron spectroscopy". *Physical Review B*, **1989**, 39, 12331-12333	3.3	62
111	Identifying the Pairing Mechanism in High-Tc Superconductors. *Materials Research Society Symposia Proceedings*, **1989**, 156, 339		5
110	Study of the electroreduction of dioxygen on thin films of platinum phthalocyanine in alkaline solutions. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 239, 273-289		14
109	The electroreduction of oxygen on thin films of platinum phthalocyanine in alkaline solutions. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 249, 167-180		11
108	Oxygen ordering, peroxide-ion formation, and polarization fluctuations in YBa2Cu3O7 *Materials Research Bulletin*, **1988**, 23, 401-412	5.1	41
107	X-ray-photoelectron-spectroscopy evidence for peroxide in 1:2:3 copper oxides containing disordered or excess oxygen. *Physical Review B*, **1988**, 38, 5091-5094	3.3	47

106	Oxygen atom thermal vibration anisotropy in Ba0.87K0.13BiO3. *Applied Physics Letters*, **1988**, 53, 1753-1755	3.4	51
105	Evidence for peroxide formation in superconducting YBa2-xLaxCu3O7+/- delta. *Physical Review B*, **1988**, 37, 3734-3737	3.3	73
104	Vanishing of superconductivity at a transition from itinerant-electron to small-polaron conduction in nominal Bi4□Pbx(Sr3Ca)Ca2□YxCu4O16. *Applied Physics Letters*, **1988**, 53, 2695-2697	3.4	19
103	Dependence of Tc on hole concentration in the superconductors Bi4Sr3Ca3□YxCu4O16+□*Applied Physics Letters*, **1988**, 53, 420-422	3.4	111
102	THE ROLE OF OXYGEN IN YBa2Cu3O7□*International Journal of Modern Physics B*, **1988**, 02, 379-391	1.1	11
101	Lithium Insertion Compounds. *Materials Research Society Symposia Proceedings*, **1988**, 135, 391		17
100	Co and Fe substitution in YBa2Cu3O7□*Journal of Materials Research*, **1988**, 3, 248-256	2.5	52
99	Oxygen clustering in 123 copper oxides having disordered or excess (>7.0) oxygen. *Superconductor Science and Technology*, **1988**, 1, 187-193	3.1	9
98	Electrical and magnetic measurements for LiyMg(Yb2)X4, X=S or Se. *Journal of Physics C: Solid State Physics*, **1987**, 20, 3391-3400		3
97	Comments on "Electrical transport properties of iron(II) molybdate". *Journal of Materials Science Letters*, **1987**, 6, 939-941		4
96	High-performance carbon electrodes for acid methanol□air fuel cells. *Journal of Applied Electrochemistry*, **1987**, 17, 413-418	2.6	9
95	Lithiated rare-earth thiospinels and selenospinels. *Journal of Solid State Chemistry*, **1987**, 70, 121-128	3.3	13
94	The electroreduction of dioxygen on thin films of gold in alkaline solution. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 234, 193-211		26
93	The electroreduction of oxygen on pyrolytic graphite. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1987**, 233, 147-159		71
92	Synthesis of the high-Tc superconductor YBa2Cu3O7□in small particle size. *Nature*, **1987**, 329, 701-703	50.4	115
91	M□sbauer characterization of LixFe3O4. *Hyperfine Interactions*, **1986**, 28, 769-772	0.8	3
90	Structural and magnetic characterization of the lithiated iron oxide LixFe3O4. *Journal of Applied Physics*, **1986**, 59, 1918-1926	2.5	38
89	Evidence of the anomalous charge state 57Fe4+ in the nuclear decay of 57Co3+. *Physical Review Letters*, **1986**, 57, 1931-1934	7.4	7

88	Bond-length mismatch in intergrowth structures. *Journal of the Less Common Metals*, **1986**, 116, 83-93		10
87	High efficiency cathodes for alkaline air electrodes. *Journal of Applied Electrochemistry*, **1985**, 15, 774-777	2.6	12
86	NMR study of the cation distribution in the systems Li1+5xTa1−xO3 and Li1+xTa1−xTixO3. *Materials Research Bulletin*, **1985**, 20, 679-686	5.1	17
85	AC Impedance Analysis of Polycrystalline Insertion Electrodes: Application to Li1−xCoO2. *Journal of the Electrochemical Society*, **1985**, 132, 1521-1528	3.9	258
84	The superconductor-semiconductor transition in the Li1+xTi2-xO4 spinel system. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1985**, 52, 679-699		110
83	Cathodic reduction of oxygen by platinum phthalocyanine thin films. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1984**, 160, 359-367		16
82	Valence states and magnetic properties of LaNi1-xMnxO3(for 0?x?0.2 and x=0.5). *Journal of Physics C: Solid State Physics*, **1984**, 17, 2745-2760		83
81	Magnetic order or charge-density wave in La2NiO4 by Mössbauer spectroscopy. *Physical Review B*, **1984**, 30, 6320-6326	3.3	25
80	Electrochemistry of ruthenates. Part 1.—Oxygen reduction on pyrochlore ruthenates. *Journal of the Chemical Society Faraday Transactions I*, **1983**, 79, 893		86
79	New anode materials for photoelectrolysis. *Journal of the Chemical Society Faraday Transactions I*, **1983**, 79, 1199		46
78	Electrochemistry and photoelectrochemistry of iron(III) oxide. *Journal of the Chemical Society Faraday Transactions I*, **1983**, 79, 2027		424
77	The metal-to-semiconductor transition in ternary ruthenium (IV) oxides: a study by electron spectroscopy. *Journal of Physics C: Solid State Physics*, **1983**, 16, 6221-6239		168
76	Photoresponse of n-type semiconductor NiTiO3. *Applied Physics Letters*, **1982**, 40, 188-190	3.4	23
75	Photoelectrochemical properties of n-type NiTiO3. *Journal of Applied Physics*, **1982**, 53, 7003-7013	2.5	30
74	Mössbauer 57Fe isomer shift as a measure of valence in mixed-valence iron sulfides. *Journal of Solid State Chemistry*, **1982**, 41, 1-22	3.3	51
73	Photoelectrochemistry of nickel(II) oxide. *Journal of the Chemical Society, Faraday Transactions 2*, **1981**, 77, 643		77
72	The Ada compiler validation capability. *ACM SIGPLAN Notices*, **1980**, 15, 1-8	0.2	12
71	Mössbauer 57Fe spectra exhibiting ferrous character. *Journal of Solid State Chemistry*, **1980**, 33, 219-232	3.3	30

70	Solid-Solution Oxides for Storage-Battery Electrodes. *Japanese Journal of Applied Physics*, **1980**, 19, 305	1.4	75
69	Sensitisation of semiconducting electrodes with ruthenium-based dyes. *Faraday Discussions of the Chemical Society*, **1980**, 70, 285		74
68	Chemical modification of a titanium (IV) oxide electrode to give stable dye sensitisation without a supersensitiser. *Nature*, **1979**, 280, 571-573	50.4	171
67	Impurity levels of iron-group ions in TiO2(II). *Journal of Physics and Chemistry of Solids*, **1979**, 40, 1129-1140	3.9	158
66	Structural chemistry of iron sulfides. *Materials Research Bulletin*, **1978**, 13, 1305-1314	5.1	37
65	X-ray photoemission spectroscopy studies of Sn-doped indium-oxide films. *Journal of Applied Physics*, **1977**, 48, 3524-3531	2.5	879
64	Etude des proprietes magnetiques, electriques et optiques des phases de structure perovskite SrVO2.90 et SrVO3. *Journal of Solid State Chemistry*, **1975**, 14, 247-259	3.3	83
63	Oxide engineering. *Journal of Solid State Chemistry*, **1975**, 12, 148-155	3.3	6
62	Exception handling design issues. *ACM SIGPLAN Notices*, **1975**, 10, 41-45	0.2	12
61	Toward a theory of test data selection. *IEEE Transactions on Software Engineering*, **1975**, SE-1, 156-173	3.5	225
60	Exception handling. *Communications of the ACM*, **1975**, 18, 683-696	2.5	326
59	. *IEEE Transactions on Software Engineering*, **1975**, SE-1, 425-426	3.5	1
58	Toward a theory of test data selection. *ACM SIGPLAN Notices*, **1975**, 10, 493-510	0.2	28
57	Crystallography, magnetism, and band structure of Mn5Ni2Bi4-type compounds. *Physical Review B*, **1974**, 10, 120-127	3.3	15
56	Exploring the A+B5+O3 compounds. *Journal of Solid State Chemistry*, **1973**, 6, 493-501	3.3	92
55	Structures and a Two-Band Model for the System V1□CrxO2. *Physical Review B*, **1973**, 8, 1323-1331	3.3	66
54	Structure of Orthorhombic V0.95 Cr0.05 O2. *Physical Review B*, **1972**, 5, 4104-4111	3.3	28
53	Influence of Atomic Vacancies on the Properties of Transition-Metal Oxides. I. TiOx and VOx. *Physical Review B*, **1972**, 5, 2764-2774	3.3	74

52	Comment on the magnetic properties of several indium thiospinels. *Journal of Solid State Chemistry* , **1972**, 4, 292-293	3.3	4
51	Effects of Co2+ and Mn3+ ion substitutions on the anisotropy and magnetostriction constants of Y3Fe5O12. *Materials Research Bulletin*, **1972**, 7, 749-759	5.1	38
50	Energy bands in TX2 compounds with pyrite, marcasite, and arsenopyrite structures. *Journal of Solid State Chemistry*, **1972**, 5, 144-152	3.3	159
49	Coexistence of localized and itinerant d electrons. *Materials Research Bulletin*, **1971**, 6, 967-976	5.1	110
48	Conceptual phase diagram and its application to the spontaneous magnetism of several pyrites. *Journal of Solid State Chemistry*, **1971**, 3, 26-38	3.3	47
47	The two components of the crystallographic transition in VO2. *Journal of Solid State Chemistry*, **1971**, 3, 490-500	3.3	1052
46	Seebeck coefficients in vanadium spinels. *Materials Research Bulletin*, **1970**, 5, 621-629	5.1	55
45	Magnetic and Optical Properties of the High- and Low-Pressure Forms of CsCoF3. *Journal of Applied Physics*, **1970**, 41, 935-936	2.5	13
44	Effects of Hydrostatic Pressure and of Jahn-Teller Distortions on the Magnetic Properties of RbFeF3. *Physical Review B*, **1970**, 2, 4640-4645	3.3	13
43	Effects of Pressure on the Magnetic Properties of MnAs. *Physical Review*, **1969**, 177, 942-951		205
42	Pressure-Effect Measurements Using a Vibrating-Coil Magnetometer. *Journal of Applied Physics*, **1969**, 40, 1324-1326	2.5	31
41	Localized vs Collective Descriptions of Magnetic Electrons. *Journal of Applied Physics*, **1968**, 39, 403-411	2.5	67
40	Spin-Orbit-Coupling Effects in Transition-Metal Compounds. *Physical Review*, **1968**, 171, 466-479		116
39	A Localized-Electron to Collective-Electron Transition in the System (La, Sr)CoO3. *Journal of Applied Physics*, **1968**, 39, 1209-1210	2.5	243
38	Magnetic Properties of SrRuO3 and CaRuO3. *Journal of Applied Physics*, **1968**, 39, 1327-1328	2.5	366
37	Resistivity and Magnetic Order in Ti2O3. *Journal of Applied Physics*, **1968**, 39, 594-595	2.5	111
36	High-Pressure Study of the First-Order Phase Transition in MnAs. *Physical Review*, **1967**, 157, 389-395		134
35	Spontaneous Band Magnetism. *Journal of Applied Physics*, **1967**, 38, 1054-1056	2.5	6

34	Theory of the Magnetic Properties of the Ilmenites MTiO3. *Physical Review*, **1967**, 164, 768-778		46
33	Localized versus Collective d Electrons and Nēl Temperatures in Perovskite and Perovskite-Related Structures. *Physical Review*, **1967**, 164, 785-789		143
32	Narrow-band electrons in transition-metal oxides. *European Physical Journal D*, **1967**, 17, 304-336		162
31	First-Order Localized-Electron ? Collective-Electron Transition in LaCoO3. *Physical Review*, **1967**, 155, 932-943		778
30	Covalency Criterion for Localized vs Collective Electrons in Oxides with the Perovskite Structure. *Journal of Applied Physics*, **1966**, 37, 1415-1422	2.5	236
29	Single-Crystal Growth and Properties of the Perovskites LaVO3 and YVO3. *Journal of Applied Physics*, **1966**, 37, 1431-1432	2.5	72
28	A lightpen-controlled program for online data analysis. *Communications of the ACM*, **1965**, 8, 130-134	2.5	5
27	Complex vs Band Formation in Perovskite Oxides. *Journal of Applied Physics*, **1965**, 36, 1031-1032	2.5	175
26	Contextual correlates of synonymy. *Communications of the ACM*, **1965**, 8, 627-633	2.5	515
25	Chemical Inhomogeneities and Square B-H Loops. *Journal of Applied Physics*, **1965**, 36, 2342-2346	2.5	44
24	Electrical Conductivity in the Spinel System Co1⊠LixV2O4. *Journal of Applied Physics*, **1964**, 35, 1069-1070	2.5	22
23	Spin Correlations Among Narrow-Band Electrons. *Journal of Applied Physics*, **1964**, 35, 1083-1084	2.5	16
22	Crystallographic Transitions in Several Chromium Spinel Systems. *Journal of Applied Physics*, **1963**, 34, 1085-1086	2.5	43
21	Atomic Moments and Magnetic Coupling in Cation Excess-Nickel Arsenides. *Journal of Applied Physics*, **1963**, 34, 1193-1194	2.5	4
20	Cation-Cation Three-Membered Ring Formation. *Journal of Applied Physics*, **1962**, 33, 1197-1199	2.5	25
19	Relationship Between Crystal Symmetry and Magnetic Properties of Ionic Compounds Containing Mn3+. *Physical Review*, **1961**, 124, 373-384		628
18	Direct Cation-Cation Interactions in Primarily Ionic Solids. *Journal of Applied Physics*, **1960**, 31, S359-S361	2.5	23
17	Band Structure of Transition Metals and Their Alloys. *Physical Review*, **1960**, 120, 67-83		140

16	Direct Cation- -Cation Interactions in Several Oxides. *Physical Review*, **1960**, 117, 1442-1451		511
15	Interpretation of the Magnetic and Crystallographic Properties of Several Iron, Nickel, and Iron-Nickel Nitrides. *Journal of Applied Physics*, **1960**, 31, S342-S343	2.5	31
14	Suggestion Concerning Magnetic Interactions in Spinels. *Physical Review*, **1959**, 115, 1156-1158		72
13	Some Magnetic and Crystallographic Properties of the System LaMn1NixO3+*Journal of Applied Physics*, **1958**, 29, 387-389	2.5	86
12	Domain-Wall Structure in Permalloy Films. *Journal of Applied Physics*, **1958**, 29, 294-295	2.5	150
11	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
10	Some Ferrimagnetic Properties of the System LixNi1O. *Journal of Applied Physics*, **1958**, 29, 382-383	2.5	46
9	Interpretation of Domain Patterns Recently Found in BiMn and SiFe Alloys. *Physical Review*, **1956**, 102, 356-365		105
8	Theory of the Role of Covalence in the Perovskite-Type Manganites [La, M(II)]MnO3. *Physical Review*, **1955**, 100, 564-573		3162
7	Theory of Ionic Ordering, Crystal Distortion, and Magnetic Exchange Due to Covalent Forces in Spinels. *Physical Review*, **1955**, 98, 391-408		567
6	Magnetic Materials for Digital-Computer Components. I. A Theory of Flux Reversal in Polycrystalline Ferromagnetics. *Journal of Applied Physics*, **1955**, 26, 8-18	2.5	125
5	A Theory of Domain Creation and Coercive Force in Polycrystalline Ferromagnetics. *Physical Review*, **1954**, 95, 917-932		233
4	A Theory of the Deviation from Close Packing in Hexagonal Metal Crystals. *Physical Review*, **1953**, 89, 282-294		69
3	General Concepts1-25		3
2	A self-regulated gradient interphase for dendrite-free solid-state Li batteries. *Energy and Environmental Science*,	35.4	16
1	Efficient Aqueous Electroreduction of CO2 to Formate at Low Overpotential on Indium Tin Oxide Nanocrystals. *Chemistry of Materials*,	9.6	4