

Yet-Ming Chiang

List of Publications by Year in Descending Order

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

178
papers

19,888
citations

71
h-index

140
g-index

199
ext. papers

22,361
ext. citations

11.4
avg, IF

7.06
L-index

#	Paper	IF	Citations
178	Exploring the Synthesis of Alkali Metal Anti-perovskites. <i>Chemistry of Materials</i> , 2022 , 34, 947-958	9.6	2
177	The challenges and opportunities of battery-powered flight.. <i>Nature</i> , 2022 , 601, 519-525	50.4	22
176	The iron-energy nexus: A new paradigm for long-duration energy storage at scale and clean steelmaking. <i>One Earth</i> , 2022 , 5, 212-215	8.1	1
175	Semi-solid alkali metal electrodes enabling high critical current densities in solid electrolyte batteries. <i>Nature Energy</i> , 2021 , 6, 314-322	62.3	22
174	Non-Solvent Induced Phase Separation Enables Designer Redox Flow Battery Electrodes. <i>Advanced Materials</i> , 2021 , 33, e2006716	24	5
173	Redox Flow Batteries: Non-Solvent Induced Phase Separation Enables Designer Redox Flow Battery Electrodes (Adv. Mater. 16/2021). <i>Advanced Materials</i> , 2021 , 33, 2170126	24	
172	An Operando calorimeter for high temperature electrochemical cells. <i>JPhys Energy</i> , 2021 , 3, 034007	4.9	
171	Leveraging Neural Networks and Genetic Algorithms to Refine Electrode Properties in Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 050547	3.9	0
170	(Student Battery Slam Best Presentation Award Winner) Combining Experimentation and Computation for Accelerated Understanding of Electrode Morphology in Redox Flow Batteries. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 266-266	0	
169	Establishing a unified framework for ion solvation and transport in liquid and solid electrolytes. <i>Trends in Chemistry</i> , 2021 , 3, 807-818	14.8	10
168	Energy storage emerging: A perspective from the Joint Center for Energy Storage Research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12550-12557	11.5	103
167	Ultrafast ion transport at a cathode electrolyte interface and its strong dependence on salt solvation. <i>Nature Energy</i> , 2020 , 5, 578-586	62.3	35
166	Exploration of Biomass-Derived Activated Carbons for Use in Vanadium Redox Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9472-9482	8.3	9
165	Comparing Physical and Electrochemical Properties of Different Weave Patterns for Carbon Cloth Electrodes in Redox Flow Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020 , 17,	2	8
164	Design principles for self-forming interfaces enabling stable lithium-metal anodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27195-27203	11.5	27
163	Data-driven electrode parameter identification for vanadium redox flow batteries through experimental and numerical methods. <i>Applied Energy</i> , 2020 , 279, 115530	10.7	8
162	Modelling of redox flow battery electrode processes at a range of length scales: a review. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5433-5468	5.8	18

161	Dynamics of Hydroxyl Anions Promotes Lithium Ion Conduction in Antiperovskite Li ₂ OHCl. <i>Chemistry of Materials</i> , 2020 , 32, 8481-8491	9.6	21
160	Ultrathin Conformal oCVD PEDOT Coatings on Carbon Electrodes Enable Improved Performance of Redox Flow Batteries. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000855	4.6	13
159	Toward electrochemical synthesis of cement-An electrolyzer-based process for decarbonating CaCO while producing useful gas streams. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12584-12591	11.5	33
158	Storage Requirements and Costs of Shaping Renewable Energy Toward Grid Decarbonization. <i>Joule</i> , 2019 , 3, 2134-2153	27.8	116
157	Electrochemical Redox Behavior of Li Ion Conducting Sulfide Solid Electrolytes. <i>Chemistry of Materials</i> , 2019 , 31, 707-713	9.6	57
156	Learning only buys you so much: Practical limits on battery price reduction. <i>Applied Energy</i> , 2019 , 239, 218-224	10.7	54
155	Producing High Concentrations of Hydrogen in Palladium via Electrochemical Insertion from Aqueous and Solid Electrolytes. <i>Chemistry of Materials</i> , 2019 , 31, 4234-4245	9.6	14
154	Revisiting the cold case of cold fusion. <i>Nature</i> , 2019 , 570, 45-51	50.4	21
153	Order-disorder transition in nano-rutile TiO anodes: a high capacity low-volume change Li-ion battery material. <i>Nanoscale</i> , 2019 , 11, 12347-12357	7.7	26
152	Apparatus for operando x-ray diffraction of fuel electrodes in high temperature solid oxide electrochemical cells. <i>Review of Scientific Instruments</i> , 2019 , 90, 023910	1.7	4
151	Effect of Concentrated Diglyme-Based Electrolytes on the Electrochemical Performance of Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6051-6059	6.1	28
150	Design Rules for Membranes from Polymers of Intrinsic Microporosity for Crossover-free Aqueous Electrochemical Devices. <i>Joule</i> , 2019 , 3, 2968-2985	27.8	36
149	Reducing Transformation Strains during Na Intercalation in Olivine FePO ₄ Cathodes by Mn Substitution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8060-8067	6.1	6
148	Phase-field model for diffusion-induced grain boundary migration: An application to battery electrodes. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
147	Demonstrating Near-Carbon-Free Electricity Generation from Renewables and Storage. <i>Joule</i> , 2019 , 3, 2585-2588	27.8	12
146	Fabrication of Low-Tortuosity Ultrahigh-Area-Capacity Battery Electrodes through Magnetic Alignment of Emulsion-Based Slurries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802472	21.8	64
145	Stabilizing LiS Battery Through Multilayer Encapsulation of Sulfur. <i>Advanced Energy Materials</i> , 2019 , 9, 1802213	21.8	46
144	Battery Electrodes: Fabrication of Low-Tortuosity Ultrahigh-Area-Capacity Battery Electrodes through Magnetic Alignment of Emulsion-Based Slurries (Adv. Energy Mater. 2/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970006	21.8	1

143	Impact of Pore Tortuosity on Electrode Kinetics in Lithium Battery Electrodes: Study in Directionally Freeze-Cast $\text{LiNi}_0.8\text{Co}_0.15\text{Al}_0.05\text{O}_2(\text{NCA})$. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A388-A395	3.9	73
142	Single-particle measurements of electrochemical kinetics in NMC and NCA cathodes for Li-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 860-871	35.4	139
141	Structure, Chemistry, and Charge Transfer Resistance of the Interface between $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Electrolyte and LiCoO_2 Cathode. <i>Chemistry of Materials</i> , 2018 , 30, 6259-6276	9.6	79
140	3D printing metals like thermoplastics: Fused filament fabrication of metallic glasses. <i>Materials Today</i> , 2018 , 21, 697-702	21.8	73
139	Electrochemical Characterization of High Energy Density Graphite Electrodes Made by Freeze-Casting. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4976-4981	6.1	33
138	Electrochemomechanical Fatigue: Decoupling Mechanisms of Fracture-Induced Performance Degradation in LiMn_2O_4 . <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2458-A2466	3.9	14
137	Mesoscopic Phase Transition Kinetics in Secondary Particles of Electrode-Active Materials in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 4216-4225	9.6	15
136	Mechanical instability of electrode-electrolyte interfaces in solid-state batteries. <i>Physical Review Materials</i> , 2018 , 2,	3.2	48
135	Lithium Metal Penetration Induced by Electrodeposition through Solid Electrolytes: Example in Single-Crystal $\text{Li}_6\text{La}_3\text{ZrTaO}_{12}$ Garnet. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3648-A3655	3.9	117
134	Enhancing the Performance of Viscous Electrode-Based Flow Batteries Using Lubricant-Impregnated Surfaces. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3614-3621	6.1	4
133	Net-zero emissions energy systems. <i>Science</i> , 2018 , 360,	33.3	606
132	Compliant Yet Brittle Mechanical Behavior of $\text{Li}_2\text{SB}_2\text{S}_5$ Lithium-Ion-Conducting Solid Electrolyte. <i>Advanced Energy Materials</i> , 2017 , 7, 1602011	21.8	144
131	Accommodating High Transformation Strains in Battery Electrodes via the Formation of Nanoscale Intermediate Phases: Operando Investigation of Olivine NaFePO . <i>Nano Letters</i> , 2017 , 17, 1696-1702	11.5	37
130	The Effect of Stress on Battery-Electrode Capacity. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A645-A654	3.9	76
129	Electrodeposition Kinetics in Li-S Batteries: Effects of Low Electrolyte/Sulfur Ratios and Deposition Surface Composition. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A917-A922	3.9	122
128	Effect of transition metal substitution on elastoplastic properties of LiMn_2O_4 spinel. <i>Journal of Electroceramics</i> , 2017 , 38, 215-221	1.5	7
127	Review Practical Challenges Hindering the Development of Solid State Li Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1731-A1744	3.9	408
126	Two-dimensional lithium diffusion behavior and probable hybrid phase transformation kinetics in olivine lithium iron phosphate. <i>Nature Communications</i> , 2017 , 8, 1194	17.4	64

125	Random Walk Analysis of the Effect of Mechanical Degradation on All-Solid-State Battery Power. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2660-A2664	3.9	17
124	Air-Breathing Aqueous Sulfur Flow Battery for Ultralow-Cost Long-Duration Electrical Storage. <i>Joule</i> , 2017 , 1, 306-327	27.8	101
123	Lowering the Bar on Battery Cost. <i>Joule</i> , 2017 , 1, 212-219	27.8	9
122	Modeling of internal mechanical failure of all-solid-state batteries during electrochemical cycling, and implications for battery design. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19422-19430	13	136
121	Low-profile self-sealing sample transfer flexure box. <i>Review of Scientific Instruments</i> , 2017 , 88, 083705	1.7	4
120	Mechanism of Lithium Metal Penetration through Inorganic Solid Electrolytes. <i>Advanced Energy Materials</i> , 2017 , 7, 1701003	21.8	520
119	Connecting Particle Fracture with Electrochemical Impedance in LiX ₂ Mn ₂ O ₄ . <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3709-A3717	3.9	17
118	Molecular understanding of polyelectrolyte binders that actively regulate ion transport in sulfur cathodes. <i>Nature Communications</i> , 2017 , 8, 2277	17.4	100
117	Characterization of Electronic and Ionic Transport in Li _{1-x} Ni _{0.33} Mn _{0.33} Co _{0.33} O ₂ (NMC333) and Li _{1-x} Ni _{0.50} Mn _{0.20} Co _{0.30} O ₂ (NMC523) as a Function of Li Content. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1512-A1517	3.9	136
116	Formulation of the coupled electrochemical/mechanical boundary-value problem, with applications to transport of multiple charged species. <i>Acta Materialia</i> , 2016 , 104, 33-51	8.4	32
115	Engineering the Transformation Strain in LiMnyFe _{1-y} PO ₄ Olivines for Ultrahigh Rate Battery Cathodes. <i>Nano Letters</i> , 2016 , 16, 2375-80	11.5	35
114	Identification of Li-Ion Battery SEI Compounds through ⁷ Li and ¹³ C Solid-State MAS NMR Spectroscopy and MALDI-TOF Mass Spectrometry. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 371-80	8.5	36
113	Three-Dimensional Growth of Li ₂ S in Lithium-Sulfur Batteries Promoted by a Redox Mediator. <i>Nano Letters</i> , 2016 , 16, 549-54	11.5	152
112	Solvent Effects on Polysulfide Redox Kinetics and Ionic Conductivity in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A3111-A3116	3.9	57
111	A low-dissipation, pumpless, gravity-induced flow battery. <i>Energy and Environmental Science</i> , 2016 , 9, 1760-1770	35.4	30
110	Component-cost and performance based comparison of flow and static batteries. <i>Journal of Power Sources</i> , 2015 , 293, 1032-1038	8.9	9
109	The synergetic effect of lithium polysulfide and lithium nitrate to prevent lithium dendrite growth. <i>Nature Communications</i> , 2015 , 6, 7436	17.4	1034
108	Improving the capacity of sodium ion battery using a virus-templated nanostructured composite cathode. <i>Nano Letters</i> , 2015 , 15, 2917-21	11.5	63

107	Characterization of Electronic and Ionic Transport in $\text{Li}_{1-x}\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ (NCA). <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1163-A1169	3.9	72
106	Supramolecular Perylene Bisimide-Polysulfide Gel Networks as Nanostructured Redox Mediators in Dissolved Polysulfide Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2015 , 27, 6765-6770	9.6	63
105	Electrochemical Charge Transfer Reaction Kinetics at the Silicon-Liquid Electrolyte Interface. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A7129-A7134	3.9	32
104	Reversible Aluminum-Ion Intercalation in Prussian Blue Analogs and Demonstration of a High-Power Aluminum-Ion Asymmetric Capacitor. <i>Advanced Energy Materials</i> , 2015 , 5, 1401410	21.8	115
103	Mechanism and Kinetics of Li_2S Precipitation in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2015 , 27, 5203-9	24	455
102	Biphasic Electrode Suspensions for Li-Ion Semi-solid Flow Cells with High Energy Density, Fast Charge Transport, and Low-Dissipation Flow. <i>Advanced Energy Materials</i> , 2015 , 5, 1500535	21.8	51
101	XANES Investigation of Dynamic Phase Transition in Olivine Cathode for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500663	21.8	19
100	Mitigating mechanical failure of crystalline silicon electrodes for lithium batteries by morphological design. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17718-28	3.6	21
99	Phase Transitions: XANES Investigation of Dynamic Phase Transition in Olivine Cathode for Li-Ion Batteries (Adv. Energy Mater. 15/2015). <i>Advanced Energy Materials</i> , 2015 , 5, n/a-n/a	21.8	1
98	In situ observation of random solid solution zone in LiFePO_4 electrode. <i>Nano Letters</i> , 2014 , 14, 4005-10	11.5	93
97	$\text{Na}_3\text{Ti}_2(\text{PO}_4)_3$ as a sodium-bearing anode for rechargeable aqueous sodium-ion batteries. <i>Electrochemistry Communications</i> , 2014 , 44, 12-15	5.1	55
96	Polysulfide flow batteries enabled by percolating nanoscale conductor networks. <i>Nano Letters</i> , 2014 , 14, 2210-8	11.5	178
95	Maximizing Energetic Efficiency in Flow Batteries Utilizing Non-Newtonian Fluids. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A486-A496	3.9	65
94	Effect of Electrochemical Charging on Elastoplastic Properties and Fracture Toughness of Li_xCoO_2 . <i>Journal of the Electrochemical Society</i> , 2014 , 161, F3084-F3090	3.9	53
93	Electroactive-Zone Extension in Flow-Battery Stacks. <i>Electrochimica Acta</i> , 2014 , 147, 460-469	6.7	27
92	Quantifying reliability statistics for electrochemical shock of brittle materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 70, 71-83	5	4
91	Strategies to Avert Electrochemical Shock and Their Demonstration in Spinel. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F3005-F3009	3.9	16
90	Design of battery electrodes with dual-scale porosity to minimize tortuosity and maximize performance. <i>Advanced Materials</i> , 2013 , 25, 1254-8	24	184

89	Aqueous semi-solid flow cell: demonstration and analysis. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15833-9	3.6	85
88	Electrochemical Shock in Ion-Intercalation Materials with Limited Solid-Solubility. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1286-A1292	3.9	50
87	Electronic Conductivity in the $\text{Li}_4/3\text{Ti}_5/3\text{O}_4\text{ }7/3\text{Ti}_5/3\text{O}_4$ System and Variation with State-of-Charge as a Li Battery Anode. <i>Advanced Energy Materials</i> , 2013 , 3, 1125-1129	21.8	73
86	Towards High Power High Energy Aqueous Sodium-Ion Batteries: The $\text{NaTi}_2(\text{PO}_4)_3/\text{Na}_{0.44}\text{MnO}_2$ System. <i>Advanced Energy Materials</i> , 2013 , 3, 290-294	21.8	367
85	Modeling the hydrodynamic and electrochemical efficiency of semi-solid flow batteries. <i>Electrochimica Acta</i> , 2012 , 69, 301-307	6.7	56
84	An Analytical Method to Determine Tortuosity in Rechargeable Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A548-A552	3.9	91
83	Design criteria for electrochemical shock resistant battery electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 8014	35.4	126
82	Nanomechanical Quantification of Elastic, Plastic, and Fracture Properties of LiCoO_2 . <i>Advanced Energy Materials</i> , 2012 , 2, 940-944	21.8	58
81	Semi-Solid Lithium Rechargeable Flow Battery. <i>Advanced Energy Materials</i> , 2011 , 1, 511-516	21.8	394
80	Templated self-assembly of non-close-packed colloidal crystals: Toward diamond cubic and novel heterostructures. <i>Journal of Materials Research</i> , 2011 , 26, 247-253	2.5	8
79	Electronically conductive phospho-olivines as lithium storage electrodes 2010 , 205-210		2
78	Electrochemical Shock of Intercalation Electrodes: A Fracture Mechanics Analysis. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1052	3.9	243
77	Long range interactions in nanoscale science. <i>Reviews of Modern Physics</i> , 2010 , 82, 1887-1944	40.5	304
76	Electrochemically Driven Phase Transitions in Insertion Electrodes for Lithium-Ion Batteries: Examples in Lithium Metal Phosphate Olivines. <i>Annual Review of Materials Research</i> , 2010 , 40, 501-529	12.8	136
75	Properties of lithium phosphorus oxynitride (Lipon) for 3D solid-state lithium batteries. <i>Journal of Materials Research</i> , 2010 , 25, 1507-1515	2.5	35
74	Comparative Study of Lithium Transport Kinetics in Olivine Cathodes for Li-ion Batteries \square	9.6	75
73	Materials science. Building a better battery. <i>Science</i> , 2010 , 330, 1485-6	33.3	334
72	Overpotential-Dependent Phase Transformation Pathways in Lithium Iron Phosphate Battery Electrodes. <i>Chemistry of Materials</i> , 2010 , 22, 5845-5855	9.6	96

71	Reply to Comment on Aliovalent Substitutions in Olivine Lithium Iron Phosphate and Impact on Structure and Properties. <i>Advanced Functional Materials</i> , 2010 , 20, 189-191	15.6	13
70	Ultra-high-energy-density microbatteries enabled by new electrode architecture and micropackaging design. <i>Advanced Materials</i> , 2010 , 22, E139-44	24	135
69	Modeling the competing phase transition pathways in nanoscale olivine electrodes. <i>Electrochimica Acta</i> , 2010 , 56, 969-976	6.7	42
68	Aliovalent Substitutions in Olivine Lithium Iron Phosphate and Impact on Structure and Properties. <i>Advanced Functional Materials</i> , 2009 , 19, 1060-1070	15.6	228
67	Wetting and Prewetting on Ceramic Surfaces. <i>Annual Review of Materials Research</i> , 2008 , 38, 227-249	12.8	113
66	Electrochemically Induced Phase Transformation in Nanoscale Olivines Li_xMPO_4 (M = Fe, Mn). <i>Chemistry of Materials</i> , 2008 , 20, 6189-6198	9.6	109
65	Stamped microbattery electrodes based on self-assembled M13 viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17227-31	11.5	127
64	Nanometer-scale wetting of the silicon surface by its equilibrium oxide. <i>Langmuir</i> , 2008 , 24, 1891-6	4	7
63	Modeling Particle Size Effects on Phase Stability and Transition Pathways in Nanosized Olivine Cathode Particles. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1100, 3041		1
62	Anisotropic wetting of ZnO by Bi_2O_3 with and without nanometer-thick surficial amorphous films. <i>Acta Materialia</i> , 2008 , 56, 862-873	8.4	26
61	Size-Dependent Lithium Miscibility Gap in Nanoscale $\text{Li}_{1-x}\text{FePO}_4$. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, A134		383
60	Assembly of metal nanoparticles into nanogaps. <i>Small</i> , 2007 , 3, 488-99	11	106
59	Spatially Resolved Modeling of Microstructurally Complex Battery Architectures. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A856	3.9	79
58	Pressure-balance and diffuse-interface models for surficial amorphous films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 422, 19-28	5.3	40
57	Virus-enabled synthesis and assembly of nanowires for lithium ion battery electrodes. <i>Science</i> , 2006 , 312, 885-8	33.3	1654
56	Nanometer-thick surficial films in oxides as a case of prewetting. <i>Langmuir</i> , 2005 , 21, 7358-65	4	60
55	Microstructural Modeling and Design of Rechargeable Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A255	3.9	234
54	Model Experiment on Thermodynamic Stability of Retained Intergranular Amorphous Films. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1893-1896	3.8	28

53	Thermodynamic Stability of Intergranular Amorphous Films in Bismuth-Doped Zinc Oxide. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 89-96	3.8	105
52	Effect of Initial Microstructure on Final Intergranular Phase Distribution in Liquid-Phase-Sintered Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 183-189	3.8	23
51	Comparative studies of the electronic structure of LiFePO ₄ , FePO ₄ , Li ₃ PO ₄ , LiMnPO ₄ , LiCoPO ₄ , and LiNiPO ₄ . <i>Journal of Applied Physics</i> , 2004 , 95, 6583-6585	2.5	46
50	Electronic Structure and Electrical Conductivity of Undoped LiFePO ₄ . <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A131		120
49	On the electronic conductivity of phospho-olivines as lithium storage electrodes. <i>Nature Materials</i> , 2003 , 2, 702-703	27	36
48	Peptides with selective affinity for carbon nanotubes. <i>Nature Materials</i> , 2003 , 2, 196-200	27	472
47	Electrochemically-driven solid-state amorphization in lithium-metal anodes. <i>Journal of Power Sources</i> , 2003 , 119-121, 604-609	8.9	161
46	Electrochemically-driven solid-state amorphization in lithium-silicon alloys and implications for lithium storage. <i>Acta Materialia</i> , 2003 , 51, 1103-1113	8.4	389
45	Microscale Measurements of the Electrical Conductivity of Doped LiFePO ₄ . <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, A278		183
44	Electronically conductive phospho-olivines as lithium storage electrodes. <i>Nature Materials</i> , 2002 , 1, 123-127	27	2424
43	Metal Oxide Composites for Lithium-Ion Battery Anodes Synthesized by the Partial Reduction Process. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A1237	3.9	20
42	Special Issue Ceramics Integration. Liquid-Phase Epitaxial Growth of BaTiO ₃ Doped(Na _{0.5} Bi _{0.5})TiO ₃ Single Crystals on a SrTiO ₃ Single Crystal Substrate.. <i>Journal of the Ceramic Society of Japan</i> , 2002 , 110, 347-352		1
41	Pressure-Induced Pyrochlore-Perovskite Phase Transformation in PLZST Ceramics 2001 , 6, 7-12		14
40	Fabrication of functionally graded reaction infiltrated SiC/Bi composite by three-dimensional printing (3DP) process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 298, 110-119	5.3	93
39	Electrochemically Induced Cation Disorder and Phase Transformations in Lithium Intercalation Oxides. <i>Chemistry of Materials</i> , 2001 , 13, 53-63	9.6	67
38	Relaxor single crystals in the (Bi _{1/2} Na _{1/2}) _{1-x} BaxZryTi _{1-y} O ₃ system exhibiting high electrostrictive strain. <i>Journal of Applied Physics</i> , 2001 , 90, 5287-5295	2.5	66
37	Magnetic characterization of MnO ₂ and Li ₂ Mn ₂ O ₄ prepared by electrochemical cycling of LiMn ₂ O ₄ . <i>Journal of Applied Physics</i> , 2000 , 87, 7382-7388	2.5	38
36	Generalized rheology of active materials. <i>Journal of Applied Physics</i> , 2000 , 88, 6902-6909	2.5	12

35	Spin-glass behavior in LiMn ₂ O ₄ spinel. <i>Applied Physics Letters</i> , 1999 , 74, 2504-2506	3.4	48
34	Equilibrium-thickness Amorphous Films on {112 0} surfaces of Bi ₂ O ₃ -doped ZnO. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 697-701	6	40
33	Electron microscopic characterization of electrochemically cycled LiCoO ₂ and Li(Al,Co)O ₂ battery cathodes. <i>Journal of Power Sources</i> , 1999 , 81-82, 594-598	8.9	62
32	Origin of Solid-State Activated Sintering in Bi ₂ O ₃ -Doped ZnO. <i>Journal of the American Ceramic Society</i> , 1999 , 82, 916-920	3.8	123
31	Lead-free high-strain single-crystal piezoelectrics in the alkaline bismuth titanate perovskite family. <i>Applied Physics Letters</i> , 1998 , 73, 3683-3685	3.4	349
30	Liquid-exchange processing and properties of SiC/Al composites. <i>Journal of Materials Research</i> , 1997 , 12, 1785-1789	2.5	3
29	Introduction and Overview: Physical Properties of Nanostructured Materials 1997 , 1, 205-209		143
28	Microstructure development in furfuryl resin-derived microporous glassy carbons. <i>Journal of Materials Research</i> , 1996 , 11, 2338-2345	2.5	16
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