Li Lu

List of Publications by Year in Descending Order

200 papers	7,523 citations	44 h-index	79 g-index
209 ext. papers	8,789 ext. citations	6.3 avg, IF	6.43 L-index

#	Paper	IF	Citations
200	Ferroelectric Engineered Electrode-Composite Polymer Electrolyte Interfaces for All-Solid-State Sodium Metal Battery.. *Advanced Science*, **2022**, e2105849	13.6	2
199	Ammonium Escorted Chloride Chemistry in Stabilizing Aqueous Chloride Ion Battery. *Materials Today Energy*, **2022**, 101020	7	1
198	Fast discharge□harge properties of FePS3 electrode for all-solid-state batteries using sulfide electrolytes and its stable diffusion path. *Functional Materials Letters*, **2021**, 14, 2141005	1.2	0
197	Supercapacitors Based on Activated Carbons, Products of Rice Hull Processing. *Russian Journal of Physical Chemistry A*, **2021**, 95, 818-826	0.7	1
196	Abnormal Phenomena of Multi-Way Sodium Storage in Selenide Electrode. *Advanced Functional Materials*, **2021**, 31, 2102406	15.6	3
195	A Robust Solid□Solid Interface Using Sodium□in Alloy Modified Metallic Sodium Anode Paving Way for All-Solid-State Battery. *Advanced Energy Materials*, **2021**, 11, 2101228	21.8	4
194	Extra Sodiation Sites in Hard Carbon for High Performance Sodium Ion Batteries.. *Small Methods*, **2021**, 5, e2100580	12.8	6
193	Understanding and Preventing Dendrite Growth in Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 34320-34331	9.5	2
192	Inorganic sodium solid-state electrolyte and interface with sodium metal for room-temperature metal solid-state batteries. *Energy Storage Materials*, **2021**, 34, 28-44	19.4	20
191	Gallium-substituted Nasicon Na3Zr2Si2PO12 solid electrolytes. *Journal of Alloys and Compounds*, **2021**, 855, 157501	5.7	4
190	Synthesis and properties of poly(1,3-dioxolane) quasi-solid-state electrolytes a rare-earth triflate catalyst. *Chemical Communications*, **2021**, 57, 7934-7937	5.8	13
189	A facile method for the synthesis of a sintering dense nano-grained NaZrSiPO Na-ion solid-state electrolyte. *Chemical Communications*, **2021**, 57, 4023-4026	5.8	7
188	Composite Hybrid Quasi-Solid Electrolyte for High-Energy Lithium Metal Batteries. *ACS Applied Energy Materials*, **2021**, 4, 7973-7982	6.1	9
187	All-Solid-State Thin Film □Batteries for Microelectronics. *Advanced Science*, **2021**, 8, e2100774	13.6	10
186	Electromechanical Failure of NASICON-Type Solid-State Electrolyte-Based All-Solid-State Li-Ion Batteries. *Chemistry of Materials*, **2021**, 33, 6841-6852	9.6	4
185	Response and Implication of NASICON Solid-State Electrolytes to Local Electrical Stimulation: From Surface Engineering to Interfacial Manipulation. *ACS Applied Materials & Interfaces*, **2021**, 13, 46588-46597	9.5	
184	Intrinsic low sodium/NASICON interfacial resistance paving the way for room temperature sodium-metal battery. *Journal of Colloid and Interface Science*, **2021**, 601, 418-426	9.3	6

183	Insight into the structure-capacity relationship in biomass derived carbon for high-performance sodium-ion batteries. *Journal of Energy Chemistry*, **2021**, 62, 497-504	12	7
182	Elevating the discharge plateau of prussian blue analogs through low-spin Fe redox induced intercalation pseudocapacitance. *Energy Storage Materials*, **2021**, 43, 182-189	19.4	8
181	Controllable 3D Porous Ni Current Collector Coupled with Surface Phosphorization Enhances Na Storage of Ni S Nanosheet Arrays.. *Small*, **2021**, e2106161	11	4
180	Probing the Coexistence of Ferroelectric and Relaxor States in BiNaTiO-Based Ceramics for Enhanced Piezoelectric Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 30548-30556	9.5	15
179	Polyanion Sodium Vanadium Phosphate for Next Generation of Sodium-Ion Batteries□A Review. *Advanced Functional Materials*, **2020**, 30, 2001289	15.6	26
178	Doping Induced Hierarchical Lattice Expansion of Cobalt Diselenide/Carbon Nanosheet Hybrid for Fast and Stable Sodium Storage. *Cell Reports Physical Science*, **2020**, 1, 100082	6.1	7
177	Dual-Nitrogen-Doped Carbon Decorated on Na3V2(PO4)3 to Stabilize the Intercalation of Three Sodium Ions. *ACS Applied Energy Materials*, **2020**, 3, 6870-6879	6.1	8
176	Revealing Mechanism of Li3PO4 Coating Suppressed Surface Oxygen Release for Commercial Ni-Rich Layered Cathodes. *ACS Applied Energy Materials*, **2020**, 3, 7445-7455	6.1	15
175	High-Power and High-Energy Cu-Substituted Li x Ni0.88□ Co y Mn0.1Cu0.02O2 Cathode Material for Li-Ion Batteries. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 1900951	1.6	3
174	Abnormal Ionic Conductivities in Halide NaBi O Cl Induced by Absorbing Water and a Derived Oxhydryl Group. *Angewandte Chemie - International Edition*, **2020**, 59, 8991-8997	16.4	6
173	Abnormal Ionic Conductivities in Halide NaBi3O4Cl2 Induced by Absorbing Water and a Derived Oxhydryl Group. *Angewandte Chemie*, **2020**, 132, 9076-9082	3.6	0
172	Flexible, stable, fast-ion-conducting composite electrolyte composed of nanostructured Na-super-ion-conductor framework and continuous Poly(ethylene oxide) for all-solid-state Na battery. *Journal of Power Sources*, **2020**, 454, 227949	8.9	16
171	Preparation of Nanocomposite Polymer Electrolyte via In Situ Synthesis of SiO Nanoparticles in PEO. *Nanomaterials*, **2020**, 10,	5.4	11
170	Scalable Li1.5Al0.5Ge1.5(PO4)3 thin membrane prepared by tape-casting for large-scale lithium□ir battery application. *Materials Technology*, **2020**, 35, 572-579	2.1	1
169	Microstructural and Electrochemical Properties of Al- and Ga-Doped Li7La3Zr2O12 Garnet Solid Electrolytes. *ACS Applied Energy Materials*, **2020**, 3, 4708-4719	6.1	17
168	Stabilization of cubic Li7La3Zr2O12 by Al substitution in various atmospheres. *Solid State Ionics*, **2020**, 350, 115323	3.3	7
167	Multi-substituted garnet-type electrolytes for solid-state lithium batteries. *Ceramics International*, **2020**, 46, 5489-5494	5.1	8
166	Substantial doping engineering in Na3V2-xFex(PO4)3 (0□□0.15) as high-rate cathode for sodium-ion battery. *Materials and Design*, **2020**, 186, 108287	8.1	25

165	Facile aqueous synthesis of high performance Na2FeM(SO4)3 (M = Fe, Mn, Ni) alluaudites for low cost Na-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 2728-2740	13	11
164	Advances in lead-free pyroelectric materials: a comprehensive review. *Journal of Materials Chemistry C*, **2020**, 8, 1494-1516	7.1	37
163	Thermal and compositional driven relaxor ferroelectric behaviours of lead-free Bi0.5Na0.5TiO3ЅrTiO3 ceramics. *Journal of Materials Chemistry C*, **2020**, 8, 2411-2418	7.1	29
162	FeP5 electrodes for all-solid-state lithium secondary batteries using sulfide-based solid electrolytes. *Journal of Power Sources*, **2020**, 449, 227576	8.9	5
161	The effect of O3P3P?3 phases coexistence in NaxFe0.3Co0.7O2 cathode material on its electronic and electrochemical properties. Experimental and theoretical studies. *Journal of Power Sources*, **2020**, 449, 227471	8.9	2
160	Decomposition failure of Li1.5Al0.5Ge1.5(PO4)3 solid electrolytes induced by electric field: A multi-scenario study using Scanning Probe Microscopy-based techniques. *Journal of Power Sources*, **2020**, 471, 228468	8.9	10
159	Ultrathin, dense, hybrid polymer/ceramic gel electrolyte for high energy lithium metal batteries. *Materials Letters*, **2020**, 279, 128480	3.3	3
158	Ultrathin, Compacted Gel Polymer Electrolytes Enable High-Energy and Stable-Cycling 4 V Lithium-Metal Batteries. *ChemElectroChem*, **2020**, 7, 3656-3662	4.3	4
157	Photocrosslinkable nanocomposite ink for printing strong, biodegradable and bioactive bone graft. *Biomaterials*, **2020**, 263, 120378	15.6	31
156	Low temperature sintering of crystallized Li1.5Al0.5Ge1.5(PO4)3 using hot-press technique. *Materials Today: Proceedings*, **2019**, 17, 408-415	1.4	1
155	Dual Substitution and Spark Plasma Sintering to Improve Ionic Conductivity of Garnet LiLaZrO. *Nanomaterials*, **2019**, 9,	5.4	7
154	Failure Mechanism and Interface Engineering for NASICON-Structured All-Solid-State Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 20895-20904	9.5	51
153	Hierarchical porous CoO /carbon nanocomposite for enhanced lithium storage. *Journal of Electroanalytical Chemistry*, **2019**, 847, 113202	4.1	5
152	Preparation of thin solid electrolyte by hot-pressing and diamond wire slicing.. *RSC Advances*, **2019**, 9, 11670-11675	3.7	18
151	Development of solid-state electrolytes for sodium-ion batteryA short review. *Nano Materials Science*, **2019**, 1, 91-100	10.2	99
150	A new approach for synthesizing bulk-type all-solid-state lithium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 9748-9760	13	15
149	Composite Solid Polymer Electrolyte with Garnet Nanosheets in Poly(ethylene oxide). *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7163-7170	8.3	77
148	Polyvinylpyrrolidone-Induced Uniform Surface-Conductive Polymer Coating Endows Ni-Rich LiNiCoMnO with Enhanced Cyclability for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 12594-12604	9.5	94

147	Phase diagram of NaFeyCo1-yO2 and evolution of its physico- and electrochemical properties with changing iron content. *Journal of Power Sources*, **2019**, 419, 42-51	8.9	10
146	Achieving high energy density in a 4.5 V all nitrogen-doped graphene based lithium-ion capacitor. *Journal of Materials Chemistry A*, **2019**, 7, 19909-19921	13	49
145	Chemical Bonding Construction of Reduced Graphene Oxide-Anchored Few-Layer Bismuth Oxychloride for Synergistically Improving Sodium-Ion Storage. *Chemistry of Materials*, **2019**, 31, 7311-7319	9.6	24
144	Composite NASICON (NaZrSiPO) Solid-State Electrolyte with Enhanced Na Ionic Conductivity: Effect of Liquid Phase Sintering. *ACS Applied Materials & Interfaces*, **2019**, 11, 40125-40133	9.5	39
143	Rice Husk-Based 3D Porous Silicon/Carbon Nanocomposites as Anode for Lithium-Ion Batteries. *Energy Technology*, **2019**, 7, 1800787	3.5	9
142	Review on solid electrolytes for all-solid-state lithium-ion batteries. *Journal of Power Sources*, **2018**, 389, 198-213	8.9	593
141	Harmonizing Energy and Power Density toward 2.7 V Asymmetric Aqueous Supercapacitor. *Advanced Energy Materials*, **2018**, 8, 1702630	21.8	158
140	Deactivation of a Single-Site Gold-on-Carbon Acetylene Hydrochlorination Catalyst: An X-ray Absorption and Inelastic Neutron Scattering Study. *ACS Catalysis*, **2018**, 8, 8493-8505	13.1	43
139	Recent advances of bismuth based anode materials for sodium-ion batteries. *Materials Technology*, **2018**, 33, 563-573	2.1	36
138	3D Frameworks with Variable Magnetic and Electrical Features from Sintered Cobalt-Modified Carbon Nanotubes. *ACS Applied Materials & Interfaces*, **2018**, 10, 20983-20994	9.5	11
137	Research Update: Ca doping effect on the Li-ion conductivity in NASICON-type solid electrolyte LiZr2(PO4)3: A first-principles molecular dynamics study. *APL Materials*, **2018**, 6, 060702	5.7	22
136	A hybrid polymer/oxide/ionic-liquid solid electrolyte for Na-metal batteries. *Journal of Materials Chemistry A*, **2017**, 5, 6424-6431	13	74
135	Ultrathin Nanoribbons of in Situ Carbon-Coated VO□HO for High-Energy and Long-Life Li-Ion Batteries: Synthesis, Electrochemical Performance, and Charge-Discharge Behavior. *ACS Applied Materials & Interfaces*, **2017**, 9, 17002-17012	9.5	38
134	Roles of Alkaline Earth Ions in Garnet-Type Superionic Conductors. *ChemElectroChem*, **2017**, 4, 266-271	4.3	18
133	Temperature-Dependent Lithium-Ion Diffusion and Activation Energy of LiCoNiMnO Thin-Film Cathode at Nanoscale by Using Electrochemical Strain Microscopy. *ACS Applied Materials & Interfaces*, **2017**, 9, 13999-14005	9.5	39
132	Hierarchical Porous Intercalation-Type V O as High-Performance Anode Materials for Li-Ion Batteries. *Chemistry - A European Journal*, **2017**, 23, 7538-7544	4.8	45
131	Nanoscale characterization of charged/discharged lithium-rich thin film cathode by scanning probe microscopy techniques. *Journal of Power Sources*, **2017**, 352, 9-17	8.9	28
130	Na-rich layered NaTiCrO (x = 0, 0.06): Na-ion battery cathode materials with high capacity and long cycle life. *Scientific Reports*, **2017**, 7, 373	4.9	18

129	Ultrathin VO2 nanosheets self-assembled into 3D micro/nano-structured hierarchical porous sponge-like micro-bundles for long-life and high-rate Li-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 8307-8316	13	60
128	Improvement of Li ion conductivity of Li 5 La 3 Ta 2 O 12 solid electrolyte by substitution of Ge for Ta. *Journal of Power Sources*, **2017**, 349, 105-110	8.9	33
127	Hydrothermal synthesis of nanostructured graphene/polyaniline composites as high-capacitance electrode materials for supercapacitors. *Scientific Reports*, **2017**, 7, 44562	4.9	62
126	Effect of Li3PO4 coating of layered lithium-rich oxide on electrochemical performance. *Journal of Power Sources*, **2017**, 341, 147-155	8.9	61
125	Recent Progress in the Applications of Vanadium-Based Oxides on Energy Storage: from Low-Dimensional Nanomaterials Synthesis to 3D Micro/Nano-Structures and Free-Standing Electrodes Fabrication. *Advanced Energy Materials*, **2017**, 7, 1700547	21.8	117
124	The Solvent Induced Inter-Dimensional Phase Transformations of Cobalt Zeolitic-Imidazolate Frameworks. *Chemistry - A European Journal*, **2017**, 23, 10638-10643	4.8	57
123	Fe3O4/rice husk-based maco-/mesoporous carbon bone nanocomposite as superior high-rate anode for lithium ion battery. *Journal of Solid State Electrochemistry*, **2017**, 21, 27-34	2.6	12
122	Selective Laser Sintering of Porous Silica Enabled by Carbon Additive. *Materials*, **2017**, 10,	3.5	20
121	Study on stabilization of cubic Li7La3Zr2O12 by Ge substitution in various atmospheres. *Functional Materials Letters*, **2016**, 09, 1642005	1.2	15
120	A Na(+) Superionic Conductor for Room-Temperature Sodium Batteries. *Scientific Reports*, **2016**, 6, 32330	4.9	110
119	Three-dimensional hierarchical nickel–cobalt sulfide nanostructures for high performance electrochemical energy storage electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 18335-18341	13	39
118	Operando X-ray Absorption Spectroscopy Study of Atomic Phase Reversibility with Wavelet Transform in the Lithium-Rich Manganese Based Oxide Cathode. *Chemistry of Materials*, **2016**, 28, 4191-4203	9.6	22
117	Mitigated phase transition during first cycle of a Li-rich layered cathode studied by in operando synchrotron X-ray powder diffraction. *Physical Chemistry Chemical Physics*, **2016**, 18, 4745-52	3.6	26
116	On the fragmentation of active material secondary particles in lithium ion battery cathodes induced by charge cycling. *Extreme Mechanics Letters*, **2016**, 9, 449-458	3.9	62
115	In operando X-ray absorption spectroscopy study of charge rate effects on the atomic environment in graphene-coated Li-rich mixed oxide cathode. *Materials and Design*, **2016**, 98, 231-242	8.1	18
114	Synergistic Effect for LiMn2O4 Microcubes with Enhanced Rate Capability and Excellent Cycle Stability for Lithium Ion Batteries. *Journal of the Electrochemical Society*, **2016**, 163, A197-A202	3.9	18
113	Electronic Coupling of Cobalt Nanoparticles to Nitrogen-Doped Graphene for Oxygen Reduction and Evolution Reactions. *ChemSusChem*, **2016**, 9, 3067-3073	8.3	17
112	Grain boundary effects on Li-ion diffusion in a Li1.2Co0.13Ni0.13Mn0.54O2 thin film cathode studied by scanning probe microscopy techniques. *RSC Advances*, **2016**, 6, 94000-94009	3.7	28

111	Dual-Carbon Network for the Effective Transport of Charged Species in a LiFePO4 Cathode for Lithium-Ion Batteries. *Energy Technology*, **2015**, 3, 63-69	3.5	9
110	Li1.5Al0.5Ge1.5(PO4)3 Li-ion conductor prepared by melt-quench and low temperature pressing. *Solid State Ionics*, **2015**, 278, 65-68	3.3	24
109	Ru0.01Ti0.99Nb2O7 as an intercalation-type anode material with a large capacity and high rate performance for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 8627-8635	13	102
108	Li5Cr9Ti4O24: A new anode material for lithium-ion batteries. *Journal of Alloys and Compounds*, **2015**, 650, 616-621	5.7	19
107	Nano-structural changes in Li-ion battery cathodes during cycling revealed by FIB-SEM serial sectioning tomography. *Journal of Materials Chemistry A*, **2015**, 3, 18171-18179	13	56
106	One-pot high temperature hydrothermal synthesis of Fe3O4@C/graphene nanocomposite as anode for high rate lithium ion battery. *Electrochimica Acta*, **2015**, 180, 1041-1049	6.7	35
105	High-energy density nonaqueous all redox flow lithium battery enabled with a polymeric membrane. *Science Advances*, **2015**, 1, e1500886	14.3	144
104	A facile strategy to achieve high conduction and excellent chemical stability of lithium solid electrolytes. *RSC Advances*, **2015**, 5, 6588-6594	3.7	19
103	Influence of crystallization temperature on ionic conductivity of lithium aluminum germanium phosphate glass-ceramic. *Journal of Power Sources*, **2015**, 290, 123-129	8.9	54
102	Li4Ti5O12-based anode materials with low working potentials, high rate capabilities and high cyclability for high-power lithium-ion batteries: a synergistic effect of doping, incorporating a conductive phase and reducing the particle size. *Journal of Materials Chemistry A*, **2014**, 2, 9982-9993	13	86
101	Advanced electrochemical performance of Li4Ti5O12-based materials for lithium-ion battery: Synergistic effect of doping and compositing. *Journal of Power Sources*, **2014**, 248, 1034-1041	8.9	89
100	Nanocomposite multilayer capacitors comprising BaTiO3@TiO2 and poly(vinylidene fluoride-hexafluoropropylene) for dielectric-based energy storage. *Journal of Advanced Dielectrics*, **2014**, 04, 1450009	1.3	4
99	Crystal structure, migration mechanism and electrochemical performance of Cr-stabilized garnet. *Solid State Ionics*, **2014**, 268, 135-139	3.3	38
98	Role of carbon coating in improving electrochemical performance of Li-rich Li(Li0.2Mn0.54Ni0.13Co0.13)O2 cathode. *RSC Advances*, **2014**, 4, 44244-44252	3.7	43
97	A study of the superior electrochemical performance of 3 nm SnO2 nanoparticles supported by graphene. *Journal of Materials Chemistry A*, **2014**, 2, 5688-5695	13	85
96	Li3.33Cu1.005Ti4.665O12/CuO composite with P4332 space group for Li-ion batteries: synergistic effect of substituting and compositing. *RSC Advances*, **2014**, 4, 31196-31200	3.7	9
95	1.8 V symmetric supercapacitors developed using nanocrystalline Ru films as electrodes. *RSC Advances*, **2014**, 4, 11111	3.7	39
94	Mesoporous Li4Ti5O(12-x)/C submicrospheres with comprehensively improved electrochemical performances for high-power lithium-ion batteries. *Physical Chemistry Chemical Physics*, **2014**, 16, 24874-24883	3.6	37

93	Synthesis of SnO2/MoS2 composites with different component ratios and their applications as lithium ion battery anodes. *Journal of Materials Chemistry A*, **2014**, 2, 17857-17866	13	80
92	Ultrathin carbon nanopainting of LiFePO4 by oxidative surface polymerization of dopamine. *Journal of Power Sources*, **2014**, 265, 239-245	8.9	24
91	Li-rich layer-structured cathode materials for high energy Li-ion batteries. *Functional Materials Letters*, **2014**, 07, 1430002	1.2	28
90	Facile synthesis of chain-like LiCoO2 nanowire arrays as three-dimensional cathode for microbatteries. *NPG Asia Materials*, **2014**, 6, e126-e126	10.3	76
89	Increasing the high rate performance of mixed metal phospho-olivine cathodes through collective and cooperative strategies. *Journal of Power Sources*, **2014**, 247, 273-279	8.9	12
88	Manganese oxide thin films prepared by pulsed laser deposition for thin film microbatteries. *Materials Chemistry and Physics*, **2014**, 143, 720-727	4.4	38
87	Fe3O4 Nanoparticles Embedded in Uniform Mesoporous Carbon Spheres for Superior High-Rate Battery Applications. *Advanced Functional Materials*, **2014**, 24, 319-326	15.6	150
86	Graphene-based surface modification on layered Li-rich cathode for high-performance Li-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 9954	13	142
85	Processing and characterization of laser-sintered Al2O3/ZrO2/SiO2. *International Journal of Advanced Manufacturing Technology*, **2013**, 68, 2565-2569	3.2	15
84	Structure and properties of hot-pressed lead-free (Ba0.85Ca0.15)(Zr0.1Ti0.9)O3 piezoelectric ceramics. *RSC Advances*, **2013**, 3, 20693	3.7	44
83	Cycling Effect on Morphological and Interfacial Properties of RuO2 Anode Film in Thin-Film Lithium Ion Microbatteries. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 26-34	2.3	15
82	A high-energy-density supercapacitor with graphene□CMK-5 as the electrode and ionic liquid as the electrolyte. *Journal of Materials Chemistry A*, **2013**, 1, 2313	13	165
81	Hollow microspherical LiFePO4/C synthesized from a novel multidentate phosphonate complexing agent. *RSC Advances*, **2013**, 3, 5127	3.7	10
80	Monodisperse Li1.2Mn0.6Ni0.2O2 microspheres with enhanced lithium storage capability. *Journal of Materials Chemistry A*, **2013**, 1, 5301	13	62
79	Trap State Spectroscopy of LiMyMn2-yO4(M = Mn, Ni, Co): Guiding Principles for Electrochemical Performance. *Journal of Physical Chemistry C*, **2013**, 117, 3812-3817	3.8	5
78	Transport and electrochemical properties of high potential tavorite LiVPO4F. *Solid State Ionics*, **2013**, 242, 10-19	3.3	48
77	Poly(vinylidene fluoride-co-hexafluoropropylene)-graft-poly(dopamine methacrylamide) copolymers: A nonlinear dielectric material for high energy density storage. *Applied Physics Letters*, **2013**, 103, 262904	3.4	28
76	Local probing of magnetoelectric coupling and magnetoelastic control of switching in BiFeO3-CoFe2O4 thin-film nanocomposite. *Applied Physics Letters*, **2013**, 103, 042906	3.4	26

75	Cycling effects on surface morphology, nanomechanical and interfacial reliability of LiMn2O4 cathode in thin film lithium ion batteries. *Electrochimica Acta*, **2012**, 68, 52-59	6.7	38
74	Intermolecular interactions and high dielectric energy storage density in poly(vinylidene fluoride-hexafluoropropylene)/poly(vinylidene fluoride) blend thin films. *Applied Physics Letters*, **2012**, 100, 252907	3.4	41
73	Synthesis of porous hollow Fe3O4 beads and their applications in lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 5006		215
72	Strain effect on the surface potential and nanoscale switching characteristics of multiferroic BiFeO3 thin films. *Applied Physics Letters*, **2012**, 100, 132907	3.4	4
71	One-step synthesis of hollow porous Fe3O4 beads□educed graphene oxide composites with superior battery performance. *Journal of Materials Chemistry*, **2012**, 22, 17656		99
70	The electrocapacitive properties of graphene oxide reduced by urea. *Energy and Environmental Science*, **2012**, 5, 6391-6399	35.4	410
69	Cycling effects on interfacial reliability of TiO2 anode film in thin film lithium-ion microbatteries. *Journal of Solid State Electrochemistry*, **2012**, 16, 1877-1881	2.6	10
68	ELECTROCHEMICAL PROPERTY OF LiMn2O4 IN OVER-DISCHARGED CONDITIONS. *Functional Materials Letters*, **2012**, 05, 1250028	1.2	15
67	Orientation-dependent surface potential behavior in Nb-doped BiFeO3. *Applied Physics Letters*, **2012**, 100, 172901	3.4	12
66	In-situ nanoscale mapping of surface potential in all-solid-state thin film Li-ion battery using Kelvin probe force microscopy. *Journal of Applied Physics*, **2012**, 111, 063723	2.5	33
65	Effect of bottom electrodes on nanoscale switching characteristics and piezoelectric response in polycrystalline BiFeO3 thin films. *Journal of Applied Physics*, **2011**, 110, 084102	2.5	31
64	Role of Pb(Zr0.52Ti0.48)O3 substitution in multiferroic properties of polycrystalline BiFeO3 thin films. *Journal of Applied Physics*, **2011**, 110, 114116	2.5	16
63	High electric breakdown strength and energy density in vinylidene fluoride oligomer/poly(vinylidene fluoride) blend thin films. *Applied Physics Letters*, **2011**, 99, 142901	3.4	48
62	ELECTRIC, MAGNETIC AND MECHANICAL COUPLING EFFECTS ON FERROELECTRIC PROPERTIES AND SURFACE POTENTIAL OF BiFeO3 THIN FILM. *Functional Materials Letters*, **2011**, 04, 91-95	1.2	4
61	Enhanced tunable and pyroelectric properties of Ba(Ti0.85Sn0.15)O3 thin films with Bi1.5Zn1.0Nb1.5O7 buffer layers. *Applied Physics Letters*, **2010**, 96, 082901	3.4	11
60	Structural and Electrochemical Properties of LiNi[sub 0.5]Mn[sub 0.5]O[sub 2] Thin-Film Electrodes Prepared by Pulsed Laser Deposition. *Journal of the Electrochemical Society*, **2010**, 157, A348	3.9	20
59	THE BEHAVIOR OF ELECTRODEPOSITED NANOCRYSTALLINE Co□i ALLOYS SUBJECTED TO MAGNETIC AND STRESS FIELDS. *Surface Review and Letters*, **2010**, 17, 129-134	1.1	1
58	Enhanced Multiferroic Properties and Valence Effect of Ru-Doped BiFeO3 Thin Films. *Journal of Physical Chemistry C*, **2010**, 114, 6994-6998	3.8	162

57	Nanoflaky MnO2/carbon nanotube nanocomposites as anode materials for lithium-ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 6896		386
56	Thickness dependence of structure, tunable and pyroelectric properties of laser-ablated Ba(Zr0.25Ti0.75)O3thin films. *Journal Physics D: Applied Physics*, **2010**, 43, 035402	3	9
55	Lithium storage capability of lithium ion conductor Li1.5Al0.5Ge1.5(PO4)3. *Journal of Alloys and Compounds*, **2010**, 501, 255-258	5.7	109
54	Anisotropic Co3O4 porous nanocapsules toward high-capacity Li-ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 1506		187
53	Leakage behavior and conduction mechanisms of Ba(Ti0.85Sn0.15)O3/Bi1.5Zn1.0Nb1.5O7 heterostructures. *Journal of Applied Physics*, **2010**, 107, 104104	2.5	18
52	Influence of oxygen pressure on the ferroelectric properties of BiFeO3 thin films on LaNiO3/Si substrates via laser ablation. *Applied Physics A: Materials Science and Processing*, **2010**, 101, 651-654	2.6	18
51	Vortex structure transformation of BaTiO3 nanoparticles through the gradient function. *Journal of Applied Physics*, **2009**, 106, 024111	2.5	11
50	ELECTROCHEMICAL PROPERTIES OF BiFeO3 THIN FILMS PREPARED BY PULSED LASER DEPOSITION. *Functional Materials Letters*, **2009**, 02, 163-167	1.2	14
49	Magnetic, ferroelectric, and dielectric properties of Bi(Sc0.5Fe0.5)O3–PbTiO3 thin films. *Journal of Applied Physics*, **2009**, 105, 074101	2.5	11
48	The role of oxygen pressure and thickness on structure and pyroelectric properties of Ba(Ti0.85Sn0.15)O3 thin films grown by pulsed laser deposition. *Journal of Applied Physics*, **2009**, 105, 084102	2.5	17
47	Li diffusion in LiNi0.5Mn0.5O2 thin film electrodes prepared by pulsed laser deposition. *Electrochimica Acta*, **2009**, 54, 5986-5991	6.7	21
46	NASICON-Structured LiGe2(PO4)3 with Improved Cyclability for High-Performance Lithium Batteries. *Journal of Physical Chemistry C*, **2009**, 113, 20514-20520	3.8	38
45	IMPROVED CAPACITIVE BEHAVIOR OF MnO2 THIN FILMS PREPARED BY ELECTRODEPOSITION ON THE PT SUBSTRATE WITH A MnOx BUFFER LAYER. *Functional Materials Letters*, **2009**, 02, 13-18	1.2	35
44	ELECTROCHEMICAL PERFORMANCE OF MICROBATTERIES USING CRYSTALLIZED LiCoO2 AND NANO-CRYSTALLINE LiMn2O4 FILM AS CATHODES AND AMORPHOUS LiNiVO4 AS ANODE. *Surface Review and Letters*, **2008**, 15, 169-174	1.1	1
43	ACCEPTOR MODULATED DEFECT AND ELECTRONIC STRUCTURES IN FERROELECTRIC LEAD TITANATE: AN AB INITIO STUDY. *Functional Materials Letters*, **2008**, 01, 121-126	1.2	2
42	STEP-FLOW GROWTH OF HETEROEPITAXIAL SrRuO3 THIN FILMS ON 0.04°SrTiO3 (001) VICINAL SUBSTRATES. *Functional Materials Letters*, **2008**, 01, 253-257	1.2	4
41	Development of a drop-on-demand system for multiple material dispensing **2008**,		4
40	Defect and electronic structures of acceptor substituted lead titanate. *Applied Physics Letters*, **2008** , 92, 112909	3.4	15

39	Growth of layered LiNi0.5Mn0.5O2 thin films by pulsed laser deposition for application in microbatteries. *Applied Physics Letters*, **2008**, 92, 011912	3.4	30
38	The manufacture of micromould and microparts by vacuum casting. *International Journal of Advanced Manufacturing Technology*, **2008**, 38, 944-948	3.2	17
37	Magnetic and Microstructural Properties of CoCrPt:Oxide Perpendicular Recording Media With Novel Intermediate Layers. *IEEE Transactions on Magnetics*, **2007**, 43, 633-638	2	20
36	The influence of preparation conditions on electrochemical properties of LiNi0.5Mn1.5O4 thin film electrodes by PLD. *Electrochimica Acta*, **2007**, 52, 2822-2828	6.7	63
35	Highly (100) oriented Pb(Zr0.52Ti0.48)O3/LaNiO3 films grown on amorphous substrates by pulsed laser deposition. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 365-370	2.6	5
34	Texture effect on the electrochemical properties of LiCoO2 thin films prepared by PLD. *Electrochimica Acta*, **2007**, 52, 7014-7021	6.7	60
33	Characterization of crystallized LiMn2O4 thin films grown by pulsed laser deposition. *Philosophical Magazine*, **2007**, 87, 3249-3258	1.6	7
32	Li diffusion in spinel LiNi0.5Mn1.5O4thin films prepared by pulsed laser deposition. *Physica Scripta*, **2007**, T129, 43-48	2.6	22
31	Electrochemical Properties of Nonstoichiometric LiNi[sub 0.5]Mn[sub 1.5]O[sub 4] Thin-Film Electrodes Prepared by Pulsed Laser Deposition. *Journal of the Electrochemical Society*, **2007**, 154, A737	3.9	105
30	Abnormal grain growth of WC with small amount of cobalt. *Philosophical Magazine*, **2007**, 87, 5657-5671	1.6	16
29	Formation of Micromoulds via UV Lithography of SU8 Photoresist and Nickel Electrodeposition. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2006**, 220, 329-333	2.4	3
28	Study on Shrinkage Behaviour of Direct Laser Sintering Metallic Powder. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2006**, 220, 183-190	2.4	51
27	Deformation behaviour of ultrafine and nanosize-grained Mg alloy synthesized via mechanical alloying. *Philosophical Magazine*, **2006**, 86, 2919-2939	1.6	17
26	Study on vacancy formation in ferroelectric PbTiO3 from ab initio. *Applied Physics Letters*, **2006**, 88, 142902	3.4	46
25	Properties of nano-crystalline LiMn2O4 thin films deposited by pulsed laser deposition. *Electrochimica Acta*, **2006**, 52, 1161-1168	6.7	32
24	Comparative study of LiMn2O4 thin film cathode grown at high, medium and low temperatures by pulsed laser deposition. *Journal of Solid State Chemistry*, **2006**, 179, 3831-3838	3.3	27
23	Micro-rapid-prototyping via multi-layered photo-lithography. *International Journal of Advanced Manufacturing Technology*, **2006**, 29, 1026-1032	3.2	13
22	Pulsed laser deposition of lead-zirconate-titanate thin films and multilayered heterostructures. *Applied Physics A: Materials Science and Processing*, **2005**, 81, 701-714	2.6	35

21	X-ray diffraction and photoelectron spectroscopic studies of (001)-oriented Pb(Zr0.52Ti0.48)O3 thin films prepared by laser ablation. *Journal of Applied Physics*, **2004**, 95, 241-247	2.5	68
20	Excimer laser-induced transformation in laser ablated Pb(Zr0.52Ti0.48)O3 amorphous thin films. *Philosophical Magazine*, **2004**, 84, 3729-3739	1.6	1
19	Mechanochemical Activation of Solid State Reaction between Mg and TiO2. *JSME International Journal Series A-Solid Mechanics and Material Engineering*, **2003**, 46, 251-254		2
18	Grain growth and recrystallization of nanocrystalline Al3Ti prepared by mechanical alloying. *Journal of Materials Science*, **2003**, 38, 613-619	4.3	26
17	Synthesis mechanism of an Al-Ti-C grain refiner master alloy prepared by a new method. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2003**, 34, 1727-1733	2.3	18
16	Kinetics of Ephase transformation in the heat treatment of FeSi2- and Fe2Si5-based thermoelectric alloys. *Philosophical Magazine*, **2003**, 83, 2865-2873	1.6	
15	Laser induced transformation of TiSi2. *Journal of Applied Physics*, **2003**, 94, 4291-4295	2.5	6
14	The mechanical alloying of titanium aluminides. *Jom*, **2002**, 54, 62-64	2.1	10
13	Effect of silicon substrate amorphization on the kinetics of reaction between a titanium thin film and silicon. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **2002**, 82, 2923-2934		
12	The role of amorphous Ni50P50 precoating layer in CoCrPtTa thin film media. *Journal of Applied Physics*, **2000**, 87, 6346-6348	2.5	12
11	Fractal-based description for the three-dimensional surface of materials. *Journal of Applied Physics*, **1999**, 86, 2526-2532	2.5	13
10	Effect of variation in physical properties of the metallic matrix on the microstructural characteristics and the ageing behaviour of Al-Cu/SiC metal matrix composites. *Journal of Materials Science*, **1999**, 34, 1681-1689	4.3	4
9	Solid-gas reactions driven by mechanical alloying of niobium and tantalum in nitrogen. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1999**, 30, 1097-1100	2.3	6
8	Effect of Matrix Constitution on Microstructure and Mechanical Properties of Rheocast Metal Matrix Composites. *Materials and Manufacturing Processes*, **1998**, 13, 27-52	4.1	5
7	Formation of Magnesium Silicide by Mechanical Alloying. *Materials Technology*, **1997**, 4, 275-283		28
6	Reactive Synthesis of NbAl3 Matrix Composites. *Materials Research Society Symposia Proceedings*, **1990**, 194, 79		6
5	In-Situ Synthesis of AL-TI-C Master Alloy Grain Refiners by Different Methods193-201		
4	Alleviating mechanical degradation of hexacyanoferrate via strain locking during Na+ insertion/extraction for full sodium ion battery. *Nano Research*,1	10	4

3	Porous Li2O Al2O3SiO2(LAS) Glass-Ceramics Prepared by Selective Laser Melting and Annealing. *Ceramic Engineering and Science Proceedings*,523-528	0.1	2
2	Growth of Lanio3 Films by Pulsed Laser Deposition. *Ceramic Engineering and Science Proceedings*,51-55	0.1	
1	Structural, thermal, and electrochemical studies of biodegradable gel polymer electrolyte for electric double layer capacitor. *High Performance Polymers*,095400832211017	1.6	1