

Shyue Ping Ong

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.

141
papers

19,560
citations

60
h-index

139
g-index

158
ext. papers

24,397
ext. citations

10.6
avg, IF

7.04
L-index

#	Paper	IF	Citations
141	Role of Critical Oxygen Concentration in the $\text{Li}_3\text{PS}_4/\text{Ox}$ Solid Electrolyte. <i>ACS Applied Energy Materials</i> , 2022 , 5, 35-41	6.1	1
140	Recent advances and applications of deep learning methods in materials science. <i>Npj Computational Materials</i> , 2022 , 8,	10.9	19
139	Electrochemically induced amorphous-to-rock-salt phase transformation in niobium oxide electrode for Li-ion batteries.. <i>Nature Materials</i> , 2022 ,	27	8
138	A Universal Machine Learning Model for Elemental Grain Boundary Energies. <i>Scripta Materialia</i> , 2022 , 218, 114803	5.6	2
137	AtomSets as a hierarchical transfer learning framework for small and large materials datasets. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	4
136	Morphology Control of Tantalum Carbide Nanoparticles through Dopant Additions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10665-10675	3.8	1
135	Database of ab initio L-edge X-ray absorption near edge structure. <i>Scientific Data</i> , 2021 , 8, 153	8.2	4
134	Correlated Octahedral Rotation and Organic Cation Reorientation Assist Halide Ion Migration in Lead Halide Perovskites. <i>Chemistry of Materials</i> , 2021 , 33, 4672-4678	9.6	3
133	Multiprincipal Component $\text{P2-Na}(\text{TiMnCoNiRu})\text{O}$ as a High-Rate Cathode for Sodium-Ion Batteries. <i>Jacs Au</i> , 2021 , 1, 98-107		5
132	Design Principles for Cation-Mixed Sodium Solid Electrolytes. <i>Advanced Energy Materials</i> , 2021 , 11, 2003196	10.6	6
131	A stable cathode-solid electrolyte composite for high-voltage, long-cycle-life solid-state sodium-ion batteries. <i>Nature Communications</i> , 2021 , 12, 1256	17.4	31
130	Tunable Lithium-Ion Transport in Mixed-Halide Argyrodites $\text{Li}_6\text{PS}_5\text{ClBr}_x$: An Unusual Compositional Space. <i>Chemistry of Materials</i> , 2021 , 33, 1435-1443	9.6	26
129	A framework for quantifying uncertainty in DFT energy corrections. <i>Scientific Reports</i> , 2021 , 11, 15496	4.9	8
128	Atomistic simulations of dislocation mobility in refractory high-entropy alloys and the effect of chemical short-range order. <i>Nature Communications</i> , 2021 , 12, 4873	17.4	21
127	Inherent stochasticity during insulator-metal transition in VO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
126	Proton distribution visualization in perovskite nickelate devices utilizing nanofocused x rays. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
125	Accelerating materials discovery with Bayesian optimization and graph deep learning. <i>Materials Today</i> , 2021 ,	21.8	4

124	Bridging the gap between simulated and experimental ionic conductivities in lithium superionic conductors. <i>Materials Today Physics</i> , 2021 , 21, 100463	8	11
123	Learning properties of ordered and disordered materials from multi-fidelity data. <i>Nature Computational Science</i> , 2021 , 1, 46-53		32
122	A long-lasting dual-function electrolyte additive for stable lithium metal batteries. <i>Nano Energy</i> , 2020 , 75, 104889	17.1	38
121	Jahn-Teller distortion-driven robust blue-light-emitting perovskite nanoplatelets. <i>Applied Materials Today</i> , 2020 , 20, 100668	6.6	7
120	Cation-Size Mismatch as a Design Principle for Enhancing the Efficiency of Garnet Phosphors. <i>Chemistry of Materials</i> , 2020 , 32, 3097-3108	9.6	13
119	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
118	Predicting Thermal Quenching in Inorganic Phosphors. <i>Chemistry of Materials</i> , 2020 , 32, 6256-6265	9.6	25
117	Complex strengthening mechanisms in the NbMoTaW multi-principal element alloy. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	35
116	Performance and Cost Assessment of Machine Learning Interatomic Potentials. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 731-745	2.8	185
115	A Critical Review of Machine Learning of Energy Materials. <i>Advanced Energy Materials</i> , 2020 , 10, 1903242	21.8	155
114	Genetic algorithm-guided deep learning of grain boundary diagrams: Addressing the challenge of five degrees of freedom. <i>Materials Today</i> , 2020 , 38, 49-57	21.8	21
113	Battery Electrodes, Electrolytes, and Their Interfaces 2020 , 1231-1254		
112	The Materials Project: Accelerating Materials Design Through Theory-Driven Data and Tools 2020 , 1751-1784		0
111	Random Forest Models for Accurate Identification of Coordination Environments from X-Ray Absorption Near-Edge Structure. <i>Patterns</i> , 2020 , 1, 100013	5.1	26
110	Rechargeable Alkali-Ion Battery Materials: Theory and Computation. <i>Chemical Reviews</i> , 2020 , 120, 6977-7019	68.19	68
109	Grain boundary properties of elemental metals. <i>Acta Materialia</i> , 2020 , 186, 40-49	8.4	42
108	Design Principles for Aqueous Na-Ion Battery Cathodes. <i>Chemistry of Materials</i> , 2020 , 32, 6875-6885	9.6	10
107	Vanadyl Phosphates AxVOPO ₄ (A = Li, Na, K) as Multielectron Cathodes for Alkali-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2002638	21.8	11

106	A disordered rock salt anode for fast-charging lithium-ion batteries. <i>Nature</i> , 2020 , 585, 63-67	50.4	137
105	Chlorine-Doped Perovskite Oxide: A Platinum-Free Cathode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35641-35652	9.5	11
104	Elucidating the Limit of Li Insertion into the Spinel Li ₄ Ti ₅ O ₁₂ 2019 , 1, 96-102		28
103	2DMatPedia, an open computational database of two-dimensional materials from top-down and bottom-up approaches. <i>Scientific Data</i> , 2019 , 6, 86	8.2	92
102	Color tunable single-phase Eu ²⁺ and Ce ³⁺ co-activated Sr ₂ LiAlO ₄ phosphors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7734-7744	7.1	17
101	Anisotropic work function of elemental crystals. <i>Surface Science</i> , 2019 , 687, 48-55	1.8	41
100	Rational synthesis and electrochemical performance of LiVOPO ₄ polymorphs. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8423-8432	13	16
99	Graph Networks as a Universal Machine Learning Framework for Molecules and Crystals. <i>Chemistry of Materials</i> , 2019 , 31, 3564-3572	9.6	219
98	Engineering of K ₃ YSi ₂ O ₇ To Tune Photoluminescence with Selected Activators and Site Occupancy. <i>Chemistry of Materials</i> , 2019 , 31, 7770-7778	9.6	50
97	Enabling Thin and Flexible Solid-State Composite Electrolytes by the Scalable Solution Process. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6542-6550	6.1	42
96	Data-Driven Discovery of Full-Visible-Spectrum Phosphor. <i>Chemistry of Materials</i> , 2019 , 31, 6286-6294	9.6	54
95	Water Contributes to Higher Energy Density and Cycling Stability of Prussian Blue Analogue Cathodes for Aqueous Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 5933-5942	9.6	30
94	An electrostatic spectral neighbor analysis potential for lithium nitride. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	44
93	Revealing Nanoscale Solid-Solid Interfacial Phenomena for Long-Life and High-Energy All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43138-43145	9.5	57
92	Accelerating materials science with high-throughput computations and machine learning. <i>Computational Materials Science</i> , 2019 , 161, 143-150	3.2	35
91	Studies of Functional Defects for Fast Na-Ion Conduction in Na ₃ [PS ₄]Cl _x with a Combined Experimental and Computational Approach. <i>Advanced Functional Materials</i> , 2019 , 29, 1807951	15.6	30
90	Battery Electrodes, Electrolytes, and Their Interfaces 2019 , 1-24		1
89	First-Order Interfacial Transformations with a Critical Point: Breaking the Symmetry at a Symmetric Tilt Grain Boundary. <i>Physical Review Letters</i> , 2018 , 120, 085702	7.4	31

88	Understanding the Electrochemical Mechanisms Induced by Gradient Mg ²⁺ Distribution of Na-Rich Na _{3+x} V ₂ Mg _x (PO ₄) ₃ /C for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 2498-2505	9.6	68
87	Predicting the volumes of crystals. <i>Computational Materials Science</i> , 2018 , 146, 184-192	3.2	2
86	Mining Unexplored Chemistries for Phosphors for High-Color-Quality White-Light-Emitting Diodes. <i>Joule</i> , 2018 , 2, 914-926	27.8	69
85	Role of Zr in strengthening MoSi ₂ from density functional theory calculations. <i>Acta Materialia</i> , 2018 , 145, 470-476	8.4	13
84	Understanding the Electrochemical Properties of Naphthalene Diimide: Implication for Stable and High-Rate Lithium-Ion Battery Electrodes. <i>Chemistry of Materials</i> , 2018 , 30, 3508-3517	9.6	60
83	Automated generation and ensemble-learned matching of X-ray absorption spectra. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	54
82	New Insights into the Interphase between the Na Metal Anode and Sulfide Solid-State Electrolytes: A Joint Experimental and Computational Study. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10076-10086	9.5	62
81	KVOPO ₄ : A New High Capacity Multielectron Na-Ion Battery Cathode. <i>Advanced Energy Materials</i> , 2018 , 8, 1800221	21.8	28
80	High-throughput computational X-ray absorption spectroscopy. <i>Scientific Data</i> , 2018 , 5, 180151	8.2	63
79	Probing Solid-Solid Interfacial Reactions in All-Solid-State Sodium-Ion Batteries with First-Principles Calculations. <i>Chemistry of Materials</i> , 2018 , 30, 163-173	9.6	104
78	Ab Initio Molecular Dynamics Studies of Fast Ion Conductors 2018 , 147-168		4
77	Battery Electrodes, Electrolytes, and Their Interfaces 2018 , 1-24		1
76	The Materials Project: Accelerating Materials Design Through Theory-Driven Data and Tools 2018 , 1-34		7
75	Predictive modeling and design rules for solid electrolytes. <i>MRS Bulletin</i> , 2018 , 43, 746-751	3.2	31
74	Deep neural networks for accurate predictions of crystal stability. <i>Nature Communications</i> , 2018 , 9, 38001	7.4	119
73	Quantum-accurate spectral neighbor analysis potential models for Ni-Mo binary alloys and fcc metals. <i>Physical Review B</i> , 2018 , 98,	3.3	35
72	Harnessing the Materials Project for machine-learning and accelerated discovery. <i>MRS Bulletin</i> , 2018 , 43, 664-669	3.2	16
71	Structural Changes in a High-Energy Density VO ₂ F Cathode upon Heating and Li Cycling. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4514-4521	6.1	7

70	The Promise and Challenges of Quantum Computing for Energy Storage. <i>Joule</i> , 2018 , 2, 810-813	27.8	6
69	Divalent-doped Na ₃ Zr ₂ Si ₂ PO ₁₂ sodium superionic conductor: Improving the ionic conductivity via simultaneously optimizing the phase and chemistry of the primary and secondary phases. <i>Journal of Power Sources</i> , 2017 , 347, 229-237	8.9	77
68	Magnetism and Faraday Rotation in Oxygen-Deficient Polycrystalline and Single-Crystal Iron-Substituted Strontium Titanate. <i>Physical Review Applied</i> , 2017 , 7,	4.3	10
67	Li ₃ Y(PS ₄) ₂ and Li ₅ PS ₄ Cl ₂ : New Lithium Superionic Conductors Predicted from Silver Thiophosphates using Efficiently Tiered Ab Initio Molecular Dynamics Simulations. <i>Chemistry of Materials</i> , 2017 , 29, 2474-2484	9.6	68
66	Direct Observation of Halide Migration and its Effect on the Photoluminescence of Methylammonium Lead Bromide Perovskite Single Crystals. <i>Advanced Materials</i> , 2017 , 29, 1703451	24	68
65	Comparison of the polymorphs of VOPO ₄ as multi-electron cathodes for rechargeable alkali-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17421-17431	13	35
64	Atomate: A high-level interface to generate, execute, and analyze computational materials science workflows. <i>Computational Materials Science</i> , 2017 , 139, 140-152	3.2	142
63	Effects of Transition-Metal Mixing on Na Ordering and Kinetics in Layered P ₂ Oxides. <i>Physical Review Applied</i> , 2017 , 7,	4.3	26
62	Data-Driven First-Principles Methods for the Study and Design of Alkali Superionic Conductors. <i>Chemistry of Materials</i> , 2017 , 29, 281-288	9.6	120
61	Creation of an XAS and EELS Spectroscopy Resource within the Materials Project using FEFF9. <i>Microscopy and Microanalysis</i> , 2017 , 23, 208-209	0.5	3
60	Accurate force field for molybdenum by machine learning large materials data. <i>Physical Review Materials</i> , 2017 , 1,	3.2	55
59	The thermodynamic scale of inorganic crystalline metastability. <i>Science Advances</i> , 2016 , 2, e1600225	14.3	352
58	Elucidating Structure-Composition-Property Relationships of the BiAlON:Eu ²⁺ Phosphor. <i>Chemistry of Materials</i> , 2016 , 28, 8622-8630	9.6	36
57	Design and synthesis of the superionic conductor Na ₁₀ SnP ₂ S ₁₂ . <i>Nature Communications</i> , 2016 , 7, 11009	17.4	193
56	Surface energies of elemental crystals. <i>Scientific Data</i> , 2016 , 3, 160080	8.2	371
55	Room-Temperature All-solid-state Rechargeable Sodium-ion Batteries with a Cl-doped Na ₃ PS ₄ Superionic Conductor. <i>Scientific Reports</i> , 2016 , 6, 33733	4.9	147
54	Computational studies of solid-state alkali conduction in rechargeable alkali-ion batteries. <i>NPG Asia Materials</i> , 2016 , 8, e254-e254	10.3	57
53	New opportunities for materials informatics: Resources and data mining techniques for uncovering hidden relationships. <i>Journal of Materials Research</i> , 2016 , 31, 977-994	2.5	133

52	Large scale computational screening and experimental discovery of novel materials for high temperature CO ₂ capture. <i>Energy and Environmental Science</i> , 2016 , 9, 1346-1360	35.4	43
51	Thermal Stability and Reactivity of Cathode Materials for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7013-21	9.5	66
50	Thermodynamics, Kinetics and Structural Evolution of LiVOPO ₄ over Multiple Lithium Intercalation. <i>Chemistry of Materials</i> , 2016 , 28, 1794-1805	9.6	56
49	Insights into the Performance Limits of the Li ₇ P ₃ S ₁₁ Superionic Conductor: A Combined First-Principles and Experimental Study. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7843-53	9.5	130
48	Elastic Properties of Alkali Superionic Conductor Electrolytes from First Principles Calculations. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A67-A74	3.9	188
47	Aqueous Stability of Alkali Superionic Conductors from First-Principles Calculations. <i>Frontiers in Energy Research</i> , 2016 , 4,	3.8	15
46	An integrated first principles and experimental investigation of the relationship between structural rigidity and quantum efficiency in phosphors for solid state lighting. <i>Journal of Luminescence</i> , 2016 , 179, 297-305	3.8	19
45	Uniform second Li ion intercalation in solid state β -LiVOPO ₄ . <i>Applied Physics Letters</i> , 2016 , 109, 053904	3.4	17
44	Molybdenum Substituted Vanadyl Phosphate β VOPO ₄ with Enhanced Two-Electron Transfer Reversibility and Kinetics for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 3159-3170	9.6	31
43	Electronic Structure Descriptor for the Discovery of Narrow-Band Red-Emitting Phosphors. <i>Chemistry of Materials</i> , 2016 , 28, 4024-4031	9.6	64
42	Computational study of metallic dopant segregation and embrittlement at molybdenum grain boundaries. <i>Acta Materialia</i> , 2016 , 117, 91-99	8.4	43
41	Experimental and Computational Evaluation of a Sodium-Rich Anti-Perovskite for Solid State Electrolytes. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2165-A2171	3.9	29
40	Rational Composition Optimization of the Lithium-Rich Li ₃ OCl _{1-x} Br _x Anti-Perovskite Superionic Conductors. <i>Chemistry of Materials</i> , 2015 , 27, 3749-3755	9.6	92
39	The Electrolyte Genome project: A big data approach in battery materials discovery. <i>Computational Materials Science</i> , 2015 , 103, 56-67	3.2	123
38	Design principles for solid-state lithium superionic conductors. <i>Nature Materials</i> , 2015 , 14, 1026-31	27	817
37	The Materials Application Programming Interface (API): A simple, flexible and efficient API for materials data based on REpresentational State Transfer (REST) principles. <i>Computational Materials Science</i> , 2015 , 97, 209-215	3.2	213
36	Vacancy Ordering in O ₃ -Type Layered Metal Oxide Sodium-Ion Battery Cathodes. <i>Physical Review Applied</i> , 2015 , 4,	4.3	64
35	FireWorks: a dynamic workflow system designed for high-throughput applications. <i>Concurrency Computation Practice and Experience</i> , 2015 , 27, 5037-5059	1.4	242

34	Interfacial Effects in Li_xVOPO_4 and Evolution of the Electronic Structure. <i>Chemistry of Materials</i> , 2015 , 27, 8211-8219	9.6	33
33	Role of Na^+ Interstitials and Dopants in Enhancing the Na^+ Conductivity of the Cubic Na_3PS_4 Superionic Conductor. <i>Chemistry of Materials</i> , 2015 , 27, 8318-8325	9.6	137
32	Accelerating Electrolyte Discovery for Energy Storage with High-Throughput Screening. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 283-91	6.4	202
31	Relating voltage and thermal safety in Li-ion battery cathodes: a high-throughput computational study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5942-53	3.6	37
30	Direct visualization of the Jahn-Teller effect coupled to Na ordering in $\text{Na}_{5/8}\text{MnO}_2$. <i>Nature Materials</i> , 2014 , 13, 586-92	27	191
29	Nanoscale stabilization of sodium oxides: implications for Na- O_2 batteries. <i>Nano Letters</i> , 2014 , 14, 1016-205	20.5	144
28	Insights into Diffusion Mechanisms in P2 Layered Oxide Materials by First-Principles Calculations. <i>Chemistry of Materials</i> , 2014 , 26, 5208-5214	9.6	121
27	Python Materials Genomics (pymatgen): A robust, open-source python library for materials analysis. <i>Computational Materials Science</i> , 2013 , 68, 314-319	3.2	1435
26	Commentary: The Materials Project: A materials genome approach to accelerating materials innovation. <i>APL Materials</i> , 2013 , 1, 011002	5.7	4073
25	Effect of Rb and Ta Doping on the Ionic Conductivity and Stability of the Garnet $\text{Li}_{7+2x}\text{Y}(\text{La}_{3-3x}\text{Rbx})(\text{Zr}_{2-y}\text{Tay})\text{O}_{12}$ ($0 \leq x \leq 0.375$, $0 \leq y \leq 1$) Superionic Conductor: A First Principles Investigation. <i>Chemistry of Materials</i> , 2013 , 25, 3048-3055	9.6	140
24	A Facile Mechanism for Recharging Li_2O_2 in LiO_2 Batteries. <i>Chemistry of Materials</i> , 2013 , 25, 3328-3336	9.6	153
23	Phase stability, electrochemical stability and ionic conductivity of the $\text{Li}_{10}\text{M}_1\text{P}_2\text{X}_{12}$ (M = Ge, Si, Sn, Al or P, and X = O, S or Se) family of superionic conductors. <i>Energy and Environmental Science</i> , 2013 , 6, 148-156	35.4	429
22	First-principles study of iron oxyfluorides and lithiation of FeOF. <i>Physical Review B</i> , 2013 , 87,	3.3	43
21	Designing Multielectron Lithium-Ion Phosphate Cathodes by Mixing Transition Metals. <i>Chemistry of Materials</i> , 2013 , 25, 2064-2074	9.6	65
20	A comparison of destabilization mechanisms of the layered Na_xMO_2 and Li_xMO_2 compounds upon alkali de-intercalation. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15571-8	3.6	134
19	Accuracy of density functional theory in predicting formation energies of ternary oxides from binary oxides and its implication on phase stability. <i>Physical Review B</i> , 2012 , 85,	3.3	298
18	From the computer to the laboratory: materials discovery and design using first-principles calculations. <i>Journal of Materials Science</i> , 2012 , 47, 7317-7340	4.3	129
17	First Principles Study of the $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ Lithium Super Ionic Conductor Material. <i>Chemistry of Materials</i> , 2012 , 24, 15-17	9.6	459

16	Community Accessible Datastore of High-Throughput Calculations: Experiences from the Materials Project 2012 ,		7
15	Low hole polaron migration barrier in lithium peroxide. <i>Physical Review B</i> , 2012 , 85,	3.3	145
14	First-principles insights on the magnetism of cubic SrTi _{1-x} CoxO ₃ <i>Applied Physics Letters</i> , 2012 , 100, 252904	3.4	23
13	Novel mixed polyanions lithium-ion battery cathode materials predicted by high-throughput ab initio computations. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17147		173
12	A high-throughput infrastructure for density functional theory calculations. <i>Computational Materials Science</i> , 2011 , 50, 2295-2310	3.2	609
11	Formation enthalpies by mixing GGA and GGA + U calculations. <i>Physical Review B</i> , 2011 , 84,	3.3	607
10	Phosphates as Lithium-Ion Battery Cathodes: An Evaluation Based on High-Throughput ab Initio Calculations. <i>Chemistry of Materials</i> , 2011 , 23, 3495-3508	9.6	317
9	Voltage, stability and diffusion barrier differences between sodium-ion and lithium-ion intercalation materials. <i>Energy and Environmental Science</i> , 2011 , 4, 3680	35.4	1078
8	Electrochemical Windows of Room-Temperature Ionic Liquids from Molecular Dynamics and Density Functional Theory Calculations. <i>Chemistry of Materials</i> , 2011 , 23, 2979-2986	9.6	271
7	First-principles study of the oxygen evolution reaction of lithium peroxide in the lithium-air battery. <i>Physical Review B</i> , 2011 , 84,	3.3	174
6	Comparison of small polaron migration and phase separation in olivine LiMnPO ₄ and LiFePO ₄ using hybrid density functional theory. <i>Physical Review B</i> , 2011 , 83,	3.3	117
5	Recharging lithium battery research with first-principles methods. <i>MRS Bulletin</i> , 2011 , 36, 185-191	3.2	130
4	Hybrid density functional calculations of redox potentials and formation energies of transition metal compounds. <i>Physical Review B</i> , 2010 , 82,	3.3	251
3	Thermal stabilities of delithiated olivine MPO ₄ (M=Fe, Mn) cathodes investigated using first principles calculations. <i>Electrochemistry Communications</i> , 2010 , 12, 427-430	5.1	187
2	Investigation of the Effect of Functional Group Substitutions on the Gas-Phase Electron Affinities and Ionization Energies of Room-Temperature Ionic Liquids Ions using Density Functional Theory. <i>Electrochimica Acta</i> , 2010 , 55, 3804-3811	6.7	53
1	LiFePO ₄ Phase Diagram from First Principles Calculations. <i>Chemistry of Materials</i> , 2008 , 20, 1798-1807	9.6	484