

Jean Marie Tarascon

List of Publications by Citations

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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.

381
papers

73,160
citations

97
h-index

268
g-index

391
ext. papers

79,636
ext. citations

10
avg, IF

8.37
L-index

#	Paper	IF	Citations
381	Issues and challenges facing rechargeable lithium batteries. <i>Nature</i> , 2001 , 414, 359-67	50.4	15070
380	Electrical energy storage for the grid: a battery of choices. <i>Science</i> , 2011 , 334, 928-35	33.3	9187
379	Nano-sized transition-metal oxides as negative-electrode materials for lithium-ion batteries. <i>Nature</i> , 2000 , 407, 496-9	50.4	6948
378	Nanomaterials for rechargeable lithium batteries. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2930-46	16.4	5042
377	Structural and physical properties of the metal (M) substituted YBa ₂ Cu _{3-x} M _x O _{7-y} perovskite. <i>Physical Review B</i> , 1988 , 37, 7458-7469	3.3	791
376	Is lithium the new gold?. <i>Nature Chemistry</i> , 2010 , 2, 510	17.6	785
375	The role of LiO ₂ solubility in O ₂ reduction in aprotic solvents and its consequences for Li-O ₂ batteries. <i>Nature Chemistry</i> , 2014 , 6, 1091-9	17.6	764
374	V ₂ O ₅ -anchored carbon nanotubes for enhanced electrochemical energy storage. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16291-9	16.4	745
373	CoO ₂ , The End Member of the Li _x CoO ₂ Solid Solution. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1114-1123	3.9	742
372	The Spinel Phase of LiMn ₂ O ₄ as a Cathode in Secondary Lithium Cells. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 2859-2864	3.9	728
371	Sustainability and in situ monitoring in battery development. <i>Nature Materials</i> , 2016 , 16, 45-56	27	695
370	Crystal substructure and physical properties of the superconducting phase Bi ₄ (Sr,Cr) ₆ Cu ₄ O _{16+x} . <i>Physical Review B</i> , 1988 , 37, 9382-9389	3.3	666
369	Na ₂ Ti ₃ O ₇ : Lowest Voltage Ever Reported Oxide Insertion Electrode for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2011 , 23, 4109-4111	9.6	662
368	Recent findings and prospects in the field of pure metals as negative electrodes for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3759		633
367	Fundamental understanding and practical challenges of anionic redox activity in Li-ion batteries. <i>Nature Energy</i> , 2018 , 3, 373-386	62.3	596
366	In search of an optimized electrolyte for Na-ion batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 8572	35.4	587
365	Room-temperature single-phase Li insertion/extraction in nanoscale Li _x FePO ₄ . <i>Nature Materials</i> , 2008 , 7, 741-7	27	583

364	Synthesis Conditions and Oxygen Stoichiometry Effects on Li Insertion into the Spinel LiMn_2O_4 . <i>Journal of the Electrochemical Society</i> , 1994 , 141, 1421-1431	3.9	579
363	Oxygen and rare-earth doping of the 90-K superconducting perovskite $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 1987 , 36, 226-234	3.3	564
362	Real-time NMR investigations of structural changes in silicon electrodes for lithium-ion batteries. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9239-49	16.4	549
361	Mixed-valence li/fe-based metal-organic frameworks with both reversible redox and sorption properties. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3259-63	16.4	518
360	Visualization of O-O peroxo-like dimers in high-capacity layered oxides for Li-ion batteries. <i>Science</i> , 2015 , 350, 1516-21	33.3	514
359	Cathode composites for Li-S batteries via the use of oxygenated porous architectures. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16154-60	16.4	512
358	From biomass to a renewable $\text{Li}_x\text{C}_6\text{O}_6$ organic electrode for sustainable Li-ion batteries. <i>ChemSusChem</i> , 2008 , 1, 348-55	8.3	507
357	Oxygen reactions in a non-aqueous Li^+ electrolyte. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6351-5	16.4	472
356	Recent advances in electrospun carbon nanofibers and their application in electrochemical energy storage. <i>Progress in Materials Science</i> , 2016 , 76, 319-380	42.2	460
355	Li Metal-Free Rechargeable LiMn_2O_4 / Carbon Cells: Their Understanding and Optimization. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 937-948	3.9	459
354	A Transmission Electron Microscopy Study of the Reactivity Mechanism of Tailor-Made CuO Particles toward Lithium. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A1266	3.9	455
353	Preparation, structure, and properties of the superconducting compound series $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_y$ with $n=1, 2$, and 3. <i>Physical Review B</i> , 1988 , 38, 8885-8892	3.3	454
352	The existence of a temperature-driven solid solution in Li_xFePO_4 for $0 \leq x \leq 1$. <i>Nature Materials</i> , 2005 , 4, 254-260	27	444
351	Review Li -Rich Layered Oxide Cathodes for Next-Generation Li-Ion Batteries: Chances and Challenges. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2490-A2499	3.9	438
350	Lithium salt of tetrahydroxybenzoquinone: toward the development of a sustainable Li-ion battery. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8984-8	16.4	392
349	Dendrite short-circuit and fuse effect on Li/polymer/Li cells. <i>Electrochimica Acta</i> , 2006 , 51, 5334-5340	6.7	384
348	Fatigue and retention in ferroelectric Y-Ba-Cu-O/Pb-Zr-Ti-O/Y-Ba-Cu-O heterostructures. <i>Applied Physics Letters</i> , 1992 , 61, 1537-1539	3.4	335
347	Li Metal-Free Rechargeable Batteries Based on $\text{Li}_1 + x \text{Mn}_2\text{O}_4$ Cathodes ($0 \leq x \leq 1$) and Carbon Anodes. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 2864-2868	3.9	323

346	Superconductivity at 40 K in the Oxygen-Defect Perovskites La _{2-x} Sr _x CuO _{4-y} . <i>Science</i> , 1987 , 235, 1373-6	33.3	321
345	Pair distribution function analysis and solid state NMR studies of silicon electrodes for lithium ion batteries: understanding the (de)lithiation mechanisms. <i>Journal of the American Chemical Society</i> , 2011 , 133, 503-12	16.4	311
344	Deciphering the multi-step degradation mechanisms of carbonate-based electrolyte in Li batteries. <i>Journal of Power Sources</i> , 2008 , 178, 409-421	8.9	293
343	3d-metal doping of the high-temperature superconducting perovskites La-Sr-Cu-O and Y-Ba-Cu-O. <i>Physical Review B</i> , 1987 , 36, 8393-8400	3.3	280
342	Activation of surface oxygen sites on an iridium-based model catalyst for the oxygen evolution reaction. <i>Nature Energy</i> , 2017 , 2,	62.3	274
341	Hall effect of La _{2-x} Sr _x CuO ₄ : Implications for the electronic structure in the normal state. <i>Physical Review B</i> , 1987 , 35, 8807-8810	3.3	270
340	Fundamental interplay between anionic/cationic redox governing the kinetics and thermodynamics of lithium-rich cathodes. <i>Nature Communications</i> , 2017 , 8, 2219	17.4	263
339	Correlation Between Microstructure and Na Storage Behavior in Hard Carbon. <i>Advanced Energy Materials</i> , 2016 , 6, 1501588	21.8	261
338	Mechanochemical synthesis of Li-argyrodite Li ₆ PS ₅ X (X = Cl, Br, I) as sulfur-based solid electrolytes for all solid state batteries application. <i>Solid State Ionics</i> , 2012 , 221, 1-5	3.3	256
337	As-deposited high T _c and J _c superconducting thin films made at low temperatures. <i>Applied Physics Letters</i> , 1988 , 53, 908-910	3.4	251
336	Li ₈ batteries: simple approaches for superior performance. <i>Energy and Environmental Science</i> , 2013 , 6, 176	35.4	248
335	Variation of superconductivity with carrier concentration in oxygen-doped YBa ₂ Cu ₃ O _{7-y} . <i>Physical Review B</i> , 1987 , 36, 7222-7225	3.3	242
334	Role of bond lengths in the 90-K superconductor: A neutron powder-diffraction study of YBa ₂ Cu. <i>Physical Review B</i> , 1988 , 37, 5932-5935	3.3	240
333	Evidence for anionic redox activity in a tridimensional-ordered Li-rich positive electrode $\text{Li}_x\text{Li}_2\text{O}$. <i>Nature Materials</i> , 2017 , 16, 580-586	27	234
332	Towards systems materials engineering. <i>Nature Materials</i> , 2012 , 11, 560-3	27	232
331	Li-S battery analyzed by UV/Vis in operando mode. <i>ChemSusChem</i> , 2013 , 6, 1177-81	8.3	214
330	Low-temperature preparation of high T _c superconducting thin films. <i>Applied Physics Letters</i> , 1988 , 52, 754-756	3.4	214
329	Epitaxial cuprate superconductor/ferroelectric heterostructures. <i>Science</i> , 1991 , 252, 944-6	33.3	210

328	Hunting for Better Li-Based Electrode Materials via Low Temperature Inorganic Synthesis□ <i>Chemistry of Materials</i> , 2010 , 22, 724-739	9.6	209
327	Na _x VO ₂ as possible electrode for Na-ion batteries. <i>Electrochemistry Communications</i> , 2011 , 13, 938-941	5.1	204
326	Room-temperature structure of the 90-K bulk superconductor YBa ₂ Cu ₃ O _{8-x} . <i>Physical Review B</i> , 1987 , 35, 7245-7248	3.3	201
325	Epitaxial ordering of oxide superconductor thin films on (100) SrTiO ₃ prepared by pulsed laser evaporation. <i>Applied Physics Letters</i> , 1987 , 51, 861-863	3.4	199
324	Ethoxycarbonyl-based organic electrode for Li-batteries. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6517-23	16.4	188
323	Live Scanning Electron Microscope Observations of Dendritic Growth in Lithium/Polymer Cells. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, A286		183
322	Preparation and Characterization of a Stable FeSO ₄ F-Based Framework for Alkali Ion Insertion Electrodes. <i>Chemistry of Materials</i> , 2012 , 24, 4363-4370	9.6	178
321	Rechargeable Li _{1+x} Mn ₂ O ₄ / Carbon Cells with a New Electrolyte Composition: Potentiostatic Studies and Application to Practical Cells. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 3071-3081	3.9	164
320	Synthesis, Structure, Characterization, and Redox Properties of the Porous MIL-68(Fe) Solid. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3789-3794	2.3	157
319	Insertion compounds and composites made by ball milling for advanced sodium-ion batteries. <i>Nature Communications</i> , 2016 , 7, 10308	17.4	156
318	Microsized Sn as Advanced Anodes in Glyme-Based Electrolyte for Na-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 9824-9830	24	151
317	Structural, transport, and electrochemical investigation of novel AM ₂ SO ₄ F (A = Na, Li; M = Fe, Co, Ni, Mn) metal fluorosulphates prepared using low temperature synthesis routes. <i>Inorganic Chemistry</i> , 2010 , 49, 7401-13	5.1	151
316	Determination of dopant site occupancies in Cu-substituted YBa ₂ Cu ₃ O _{7-δ} by differential anomalous x-ray scattering. <i>Physical Review B</i> , 1989 , 39, 9017-9027	3.3	150
315	Electrochemistry of Cu ₃ N with Lithium. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1273	3.9	148
314	Positive Hall coefficient observed in single-crystal Nd _{2-x} Ce _x CuO _{4-δ} at low temperatures. <i>Physical Review B</i> , 1991 , 43, 3020-3025	3.3	141
313	Higher energy and safer sodium ion batteries via an electrochemically made disordered NaV(PO) ₃ F material. <i>Nature Communications</i> , 2019 , 10, 585	17.4	139
312	Nanoarchitected 3D cathodes for Li-ion microbatteries. <i>Advanced Materials</i> , 2010 , 22, 4978-81	24	137
311	Preparation of Nanotextured VO ₂ [B] from Vanadium Oxide Aerogels. <i>Chemistry of Materials</i> , 2006 , 18, 4369-4374	9.6	132

310	Understanding the roles of anionic redox and oxygen release during electrochemical cycling of lithium-rich layered $\text{Li}_4\text{FeSbO}_6$. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4804-14	16.4	128
309	Origin of the 110-K superconducting transition in the Bi-Sr-Ca-Cu-O system. <i>Physical Review B</i> , 1988 , 38, 2504-2508	3.3	125
308	Development of Reliable Three-Electrode Impedance Measurements in Plastic Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A851	3.9	124
307	Sulfate-Based Polyanionic Compounds for Li-Ion Batteries: Synthesis, Crystal Chemistry, and Electrochemistry Aspects. <i>Chemistry of Materials</i> , 2014 , 26, 394-406	9.6	120
306	Growth of single-crystal copper sulfide thin films via electrodeposition in ionic liquid media for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5295		120
305	Distorted chain sites for Co- and Fe-substituted $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Physical Review B</i> , 1989 , 39, 11603-11617	3.3	120
304	A New Approach to Develop Safe All-Inorganic Monolithic Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2011 , 1, 179-183	21.8	116
303	Na Reactivity toward Carbonate-Based Electrolytes: The Effect of FEC as Additive. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2333-A2339	3.9	114
302	Epitaxial growth of ferroelectric bismuth titanate thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 1990 , 57, 1505-1507	3.4	113
301	Structural properties of Ba_2RCu . <i>Physical Review B</i> , 1987 , 36, 3617-3621	3.3	113
300	Lithium molybdenum nitride (LiMoN_2): the first metallic layered nitride. <i>Chemistry of Materials</i> , 1992 , 4, 928-937	9.6	111
299	Structure and magnetic properties of nonsuperconducting doped Co and Fe $\text{Bi}_2\text{Sr}_2\text{Cu}_{1-x}\text{M}_x\text{O}_y$ phases. <i>Physical Review B</i> , 1989 , 39, 11587-11598	3.3	110
298	Substrate effects on the properties of Y-Ba-Cu-O superconducting films prepared by laser deposition. <i>Journal of Applied Physics</i> , 1988 , 63, 4591-4598	2.5	110
297	Structure and electrochemical properties of novel mixed $\text{Li}(\text{Fe}_{1-x}\text{M}_x)\text{SO}_4\text{F}$ ($\text{M} = \text{Co}, \text{Ni}, \text{Mn}$) phases fabricated by low temperature ionothermal synthesis. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1659		109
296	Approaching the limits of cationic and anionic electrochemical activity with the Li-rich layered rocksalt Li_3IrO_4 . <i>Nature Energy</i> , 2017 , 2, 954-962	62.3	108
295	Mass spectrometry investigations on electrolyte degradation products for the development of nanocomposite electrodes in lithium ion batteries. <i>Analytical Chemistry</i> , 2006 , 78, 3688-98	7.8	108
294	Editors' Choice Practical Assessment of Anionic Redox in Li-Rich Layered Oxide Cathodes: A Mixed Blessing for High Energy Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2965-A2976	3.9	107
293	Synthesis and Electrochemical Properties of Vanadium Oxide Aerogels Prepared by a Freeze-Drying Process. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A666	3.9	104

- 292 Anionic Redox Activity in a Newly Zn-Doped Sodium Layered Oxide $P2-Na_{2/3}Mn_{1-x}Zn_xO_2$ (0
Advanced Energy Materials, **2018**, 8, 1802379 21.8 104
- 291 Electrochemical characterization of lithium 4,4'-tolane-dicarboxylate for use as a negative
electrode in Li-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 1615-1620 102
- 290 Ferroelectric $PbZr_{0.2}Ti_{0.8}O_3$ thin films on epitaxial Y-Ba-Cu-O. *Applied Physics Letters*, **1991**, 59, 3542-3544 101
- 289 Role of Electrolyte Anions in the NaO_2 Battery: Implications for NaO_2 Solvation and the Stability
of the Sodium Solid Electrolyte Interphase in Glyme Ethers. *Chemistry of Materials*, **2017**, 29, 6066-6075 9.6 99
- 288 The first in situ 7Li nuclear magnetic resonance study of lithium insertion in hard-carbon anode
materials for Li-ion batteries. *Journal of Chemical Physics*, **2003**, 118, 6038-6045 3.9 99
- 287 Strong Oxygen Participation in the Redox Governing the Structural and Electrochemical Properties
of Na-Rich Layered Oxide Na_2IrO_3 . *Chemistry of Materials*, **2016**, 28, 8278-8288 9.6 98
- 286 The effects of moderate thermal treatments under air on $LiFePO_4$ -based nano powders. *Journal of
Materials Chemistry*, **2009**, 19, 3979 98
- 285 Oxygen intercalation in the perovskite superconductor $YBa_2Cu_3O_{6+x}$. *Physical Review B*, **1988**, 38, 6543-6551 98
- 284 New concepts for the search of better electrode materials for rechargeable lithium batteries.
Comptes Rendus Chimie, **2005**, 8, 9-15 2.7 97
- 283 Upper critical fields of high- T_c superconducting $Y_{2-x}Ba_x$. *Physical Review B*, **1987**, 35, 7249-7251 3.3 94
- 282 Chain-site versus plane-site Cu substitution in $YBa_2Cu_3-xM_xO_7$ (M=Co,Ni): Hall and thermopower
studies. *Physical Review B*, **1989**, 39, 777-780 3.3 93
- 281 X-ray Photoemission Spectroscopy Study of Cationic and Anionic Redox Processes in High-Capacity
Li-Ion Battery Layered-Oxide Electrodes. *Journal of Physical Chemistry C*, **2016**, 120, 862-874 3.8 91
- 280 Na-ion versus Li-ion Batteries: Complementarity Rather than Competitiveness. *Joule*, **2020**, 4, 1616-1620 27.8 90
- 279 Infrared and X-ray studies of hydrogen intercalation in different tungsten trioxides and tungsten
trioxide hydrates. *Journal of Solid State Electrochemistry*, **1997**, 1, 199-207 2.6 90
- 278 Sacrificial salts: Compensating the initial charge irreversibility in lithium batteries. *Electrochemistry
Communications*, **2010**, 12, 1344-1347 5.1 89
- 277 Hall-effect anomaly in the high- T_c copper-based perovskites. *Physical Review B*, **1989**, 39, 7324-7327 3.3 89
- 276 Superconductivity at 90 K in a multiphase oxide of Y-Ba-Cu. *Physical Review B*, **1987**, 35, 7115-7118 3.3 89
- 275 Low Temperature $LiMn_2O_4$ Spinel Films for Secondary Lithium Batteries. *Journal of the
Electrochemical Society*, **1992**, 139, 1845-1849 3.9 87

- 274 Fabrication of thin-film LiMn₂O₄ cathodes for rechargeable microbatteries. *Applied Physics Letters*, **1991**, 59, 1260-1262 3.4 87
- 273 Photoemission study of the new high-temperature superconductor Bi-Ca-Sr-Cu-O. *Physical Review B*, **1988**, 38, 881-884 3.3 87
- 272 The Stone Age Revisited: Building a Monolithic Inorganic Lithium-Ion Battery. *Advanced Functional Materials*, **2012**, 22, 2140-2147 15.6 86
- 271 Rationalization of Intercalation Potential and Redox Mechanism for A₂Ti₃O₇ (A = Li, Na). *Chemistry of Materials*, **2013**, 25, 4946-4956 9.6 85
- 270 3-D coordination polymers based on the tetrathiafulvalenetetracarboxylate (TTF-TC) derivative: synthesis, characterization, and oxidation issues. *Inorganic Chemistry*, **2010**, 49, 7135-43 5.1 85
- 269 Photoemission resonances of the high-temperature superconductor Ba₂YCu₃O_{7+x}. *Physical Review B*, **1987**, 36, 819-821 3.3 85
- 268 Properties of mechanically alloyed Mg_{1-x}Li_x ternary hydrogen storage alloys for Ni-MH batteries. *Journal of Power Sources*, **2002**, 112, 547-556 8.9 84
- 267 Bulk and thick films of the superconducting phase YBa₂Cu₃O_{7- δ} made by controlled precipitation and sol-gel processes. *Journal of Applied Physics*, **1988**, 63, 2725-2729 2.5 84
- 266 Anionic redox chemistry in Na-rich Na₂Ru_{1-x}Sn_yO₃ positive electrode material for Na-ion batteries. *Electrochemistry Communications*, **2015**, 53, 29-32 5.1 83
- 265 Chemical vs Electrochemical Formation of LiCO as a Discharge Product in Li-O/CO Batteries by Controlling the Superoxide Intermediate. *Journal of Physical Chemistry Letters*, **2017**, 8, 214-222 6.4 81
- 264 Analytical detection of soluble polysulphides in a modified Swagelok cell. *Electrochemistry Communications*, **2011**, 13, 117-120 5.1 79
- 263 Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. *Nature Energy*, **2019**, 4, 977-987 62.3 78
- 262 Far-infrared measurement of the gap of the high-T_c superconductor La_{1.85}Sr. *Physical Review B*, **1987**, 35, 8843-8845 3.3 78
- 261 Magnetic and transport properties of pure and carbon-doped divalent RE hexaboride single crystals. *Journal of Applied Physics*, **1980**, 51, 574-577 2.5 78
- 260 A Chemical Approach to Raise Cell Voltage and Suppress Phase Transition in O₃ Sodium Layered Oxide Electrodes. *Advanced Energy Materials*, **2018**, 8, 1702599 21.8 77
- 259 Probing the thermal effects of voltage hysteresis in anionic redox-based lithium-rich cathodes using isothermal calorimetry. *Nature Energy*, **2019**, 4, 647-656 62.3 74
- 258 Design of new electrode materials for Li-ion and Na-ion batteries from the bloedite mineral Na₂Mg(SO₄)₂·4H₂O. *Journal of Materials Chemistry A*, **2014**, 2, 2671-2680 13 73
- 257 Effects of oxygen stoichiometry on the electronic structure of YBa₂Cu. *Physical Review B*, **1987**, 36, 3986-3989 73

256	LiZnSO ₄ F made in an ionic liquid: a ceramic electrolyte composite for solid-state lithium batteries. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2526-31	16.4	72
255	Decomposition of ethylene carbonate on electrodeposited metal thin film anode. <i>Journal of Power Sources</i> , 2010 , 195, 2036-2043	8.9	71
254	Magnetic versus nonmagnetic ion substitution effects on T _c in the La-Sr-Cu-O and Nd-Ce-Cu-O systems. <i>Physical Review B</i> , 1990 , 42, 218-222	3.3	71
253	Decoupling Cationic/Anionic Redox Processes in a Model Li-Rich Cathode via Operando X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2017 , 29, 9714-9724	9.6	69
252	Li ₂ Fe(SO ₄) ₂ as a 3.83V positive electrode material. <i>Electrochemistry Communications</i> , 2012 , 21, 77-80	5.1	69
251	Synthesis of Li-Rich NMC: A Comprehensive Study. <i>Chemistry of Materials</i> , 2017 , 29, 9923-9936	9.6	68
250	Li-Carboxylate Anode Structure-Property Relationships from Molecular Modeling. <i>Chemistry of Materials</i> , 2013 , 25, 132-141	9.6	67
249	Room-temperature synthesis leading to nanocrystalline Ag ₂ V ₄ O ₁₁ . <i>Journal of the American Chemical Society</i> , 2010 , 132, 6778-82	16.4	66
248	Direct Quantification of Anionic Redox over Long Cycling of Li-Rich NMC via Hard X-ray Photoemission Spectroscopy. <i>ACS Energy Letters</i> , 2018 , 3, 2721-2728	20.1	66
247	X-ray-absorption studies of the high-T _c superconductors La _{1.8} Sr _{0.2} CuO ₄ and La _{1.8} Ba _{0.2} CuO ₄ . <i>Physical Review B</i> , 1987 , 35, 7203-7206	3.3	65
246	Smooth high T _c Y ₁ Ba ₂ Cu ₃ O _x films by laser deposition at 650 °C. <i>Applied Physics Letters</i> , 1988 , 53, 517-519	3.4	65
245	Phosphate Ion Functionalization of Perovskite Surfaces for Enhanced Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3466-3472	6.4	64
244	Dual Stabilization and Sacrificial Effect of Na ₂ CO ₃ for Increasing Capacities of Na-Ion Cells Based on P ₂ -Na _x MO ₂ Electrodes. <i>Chemistry of Materials</i> , 2017 , 29, 5948-5956	9.6	64
243	Measurements of the superconducting gap of La-Sr-Cu-O with a scanning-tunneling microscope. <i>Physical Review B</i> , 1987 , 35, 7220-7223	3.3	64
242	Preparation, structure, and electrochemistry of layered polyanionic hydroxysulfates: LiMSO ₄ OH (M = Fe, Co, Mn) electrodes for Li-ion batteries. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3653-61	16.4	63
241	Direct and modified ionothermal synthesis of LiMnPO ₄ with tunable morphology for rechargeable Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10143		63
240	On the Origin of the 3.3 and 4.5 V Steps Observed in LiMn ₂ O ₄ -Based Spinel. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 845	3.9	63
239	Fatigue and aging in ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ /YBa ₂ Cu ₃ O ₇ heterostructures. <i>Integrated Ferroelectrics</i> , 1992 , 1, 1-15	0.8	63

238	Lithium Insertion / De-Insertion Properties of π -Extended Naphthyl-Based Dicarboxylate Electrode Synthesized by Freeze-Drying. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A46-A52	3.9	62
237	Anomalous enhancement of the electron dephasing rate from magnetoresistance data in $\text{Bi}_2\text{Sr}_2\text{CuO}_6$. <i>Physical Review Letters</i> , 1991 , 67, 761-764	7.4	62
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