

# Jean Marie Tarascon

## 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.

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	Layered Sodium Titanium Trichalcogenide Na <sub>2</sub> TiCh <sub>3</sub> Framework (Ch = S, Se): A Rich Crystal and Electrochemical Chemistry. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 2382-2392	9.6	1
380	Optical sensors for operando stress monitoring in lithium-based batteries containing solid-state or liquid electrolytes.. <i>Nature Communications</i> , <b>2022</b> , 13, 1153	17.4	6
379	Sensing as the key to battery lifetime and sustainability. <i>Nature Sustainability</i> , <b>2022</b> , 5, 194-204	22.1	4
378	Practicality of methyl acetate as a co-solvent for fast charging Na-ion battery electrolytes. <i>Electrochimica Acta</i> , <b>2022</b> , 416, 140217	6.7	0
377	Chemical Design of IrS <sub>2</sub> Polymorphs to Understand the Charge/Discharge Asymmetry in Anionic Redox Systems. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 325-336	9.6	
376	Quel futur pour les batteries?. <i>Pourlascience Fr</i> , <b>2021</b> , N° 522 - avril, 44-53	0	
375	Monitoring metallic sub-micrometric lithium structures in Li-ion batteries by in situ electron paramagnetic resonance correlated spectroscopy and imaging. <i>Nature Communications</i> , <b>2021</b> , 12, 1410	17.4	12
374	Evidence of Bulk Proton Insertion in Nanostructured Anatase and Amorphous TiO <sub>2</sub> Electrodes. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3436-3448	9.6	9
373	Toward Better and Smarter Batteries by Combining AI with Multisensory and Self-Healing Approaches. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100362	21.8	14
372	Can an Inorganic Coating Serve as Stable SEI for Aqueous Superconcentrated Electrolytes?. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2575-2583	20.1	7
371	Extending insertion electrochemistry to soluble layered halides with superconcentrated electrolytes. <i>Nature Materials</i> , <b>2021</b> , 20, 1545-1550	27	2
370	Unraveling the mechanical origin of stable solid electrolyte interphase. <i>Joule</i> , <b>2021</b> , 5, 1860-1872	27.8	25
369	Elucidation of Active Oxygen Sites upon Delithiation of Li <sub>3</sub> IrO <sub>4</sub> . <i>ACS Energy Letters</i> , <b>2021</b> , 6, 140-147	20.1	5
368	Unlocking anionic redox activity in O <sub>3</sub> -type sodium 3d layered oxides via Li substitution. <i>Nature Materials</i> , <b>2021</b> , 20, 353-361	27	47
367	Crystallographic and magnetic structures of the VI <sub>3</sub> and LiVI <sub>3</sub> van der Waals compounds. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	5
366	The Hidden Side of Nanoporous Li <sub>3</sub> PS <sub>4</sub> Solid Electrolyte. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101111	21.8	11
365	Deciphering Interfacial Reactions via Optical Sensing to Tune the Interphase Chemistry for Optimized Na-Ion Electrolyte Formulation. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101490	21.8	7

364	Activation of anionic redox in d transition metal chalcogenides by anion doping. <i>Nature Communications</i> , <b>2021</b> , 12, 5485	17.4	7
363	Correlating ligand-to-metal charge transfer with voltage hysteresis in a Li-rich rock-salt compound exhibiting anionic redox. <i>Nature Chemistry</i> , <b>2021</b> , 13, 1070-1080	17.6	15
362	Engineered Three-Electrode Cells for Improving Solid State Batteries. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090508	3.9	2
361	Unraveling gas evolution in sodium batteries by online electrochemical mass spectrometry. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 12-21	19.4	6
360	Stabilization of a mixed iron vanadium based hexagonal tungsten bronze hydroxyfluoride HTB-(FeV)F(OH) as a positive electrode for lithium-ion batteries. <i>Dalton Transactions</i> , <b>2020</b> , 49, 8186-8193	4.3	1
359	Cation insertion to break the activity/stability relationship for highly active oxygen evolution reaction catalyst. <i>Nature Communications</i> , <b>2020</b> , 11, 1378	17.4	43
358	Li-Rich Layered Sulfide as Cathode Active Materials in All-Solid-State Li-Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15145-15154	9.5	16
357	Structural evolution at the oxidative and reductive limits in the first electrochemical cycle of LiNiMnCoO. <i>Nature Communications</i> , <b>2020</b> , 11, 1252	17.4	50
356	Decoupling the effect of vacancies and electropositive cations on the anionic redox processes in Na based P2-type layered oxides. <i>Energy Storage Materials</i> , <b>2020</b> , 31, 146-155	19.4	20
355	Na-ion versus Li-ion Batteries: Complementarity Rather than Competitiveness. <i>Joule</i> , <b>2020</b> , 4, 1616-1620	27.8	90
354	Exploring the Kinetic Limitations Causing Unusual Low-Voltage Li Reinsertion in Either Layered or Tridimensional Li <sub>2</sub> IrO <sub>3</sub> Cathode Materials. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2133-2147	9.6	6
353	The Role of Divalent (Zn <sup>2+</sup> /Mg <sup>2+</sup> /Cu <sup>2+</sup> ) Substituents in Achieving Full Capacity of Sodium Layered Oxides for Na-Ion Battery Applications. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1657-1666	9.6	31
352	Structural Polymorphism in NaZn(PO) Driven by Rotational Order-Disorder Transitions and the Impact of Heterovalent Substitutions on Na-Ion Conductivity. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 6528-6540	5.1	6
351	The Structural Stability of P2-Layered Na-Based Electrodes during Anionic Redox. <i>Joule</i> , <b>2020</b> , 4, 420-434	7.8	47
350	Anionic and Cationic Redox Processes in Li <sub>2</sub> IrO <sub>3</sub> and Their Structural Implications on Electrochemical Cycling in a Li-Ion Cell. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 2771-2781	3.8	12
349	Elucidating the Origin of the Electrochemical Capacity in a Proton-Based Battery HfO via Advanced Electrogravimetry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4510-4519	9.5	12
348	Water-in-Salt Electrolyte (WiSE) for Aqueous Batteries: A Long Way to Practicality. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002440	21.8	52
347	Solid state chemistry for developing better metal-ion batteries. <i>Nature Communications</i> , <b>2020</b> , 11, 4976	17.4	47

346	Single-sulfur atom discrimination of polysulfides with a protein nanopore for improved batteries. <i>Communications Materials</i> , <b>2020</b> , 1,	6	20
345	Making Advanced Electrogravimetry as an Affordable Analytical Tool for Battery Interface Characterization. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13803-13812	7.8	10
344	Operando decoding of chemical and thermal events in commercial Na(Li)-ion cells via optical sensors. <i>Nature Energy</i> , <b>2020</b> , 5, 674-683	62.3	58
343	Magnetic and Intercalation Properties of BaRu2O6 and SrRu2O6. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8471-8480	4.80	2
342	Les batteries sont-elles la bonne option pour un développement durable?. <i>Comptes Rendus - Geoscience</i> , <b>2020</b> , 352, 401-414	1.4	2
341	Higher energy and safer sodium ion batteries via an electrochemically made disordered NaV(PO)F material. <i>Nature Communications</i> , <b>2019</b> , 10, 585	17.4	139
340	The rapid microwave-assisted hydrothermal synthesis of NASICON-structured NaVO (PO)F (0 RSC Advances, <b>2019</b> , 9, 19429-19440	3.7	18
339	Charge Transfer Band Gap as an Indicator of Hysteresis in Li-Disordered Rock Salt Cathodes for Li-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11452-11464	16.4	51
338	Synthesis by Thermal Decomposition of Two Iron Hydroxyfluorides: Structural Effects of Li Insertion. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4246-4257	9.6	6
337	Synthesis and Electrochemical Activity of Some Na(Li)-Rich Ruthenium Oxides with the Feasibility to Stabilize Ru6+. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803674	21.8	17
336	New Amorphous Iron-Based Oxyfluorides as Cathode Materials for High-Capacity Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 21386-21394	3.8	11
335	Reaching the Energy Density Limit of Layered O3-NaNi0.5Mn0.5O2 Electrodes via Dual Cu and Ti Substitution. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901785	21.8	61
334	Mesoscale Texturation of Organic-Based Negative Electrode Material through in Situ Proton Reduction of Conjugated Carboxylic Acid. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6224-6230	9.6	5
333	Valorizing low cost and renewable lignin as hard carbon for Na-ion batteries: Impact of lignin grade. <i>Carbon</i> , <b>2019</b> , 153, 634-647	10.4	37
332	Revealing the Reactivity of the Iridium Trioxide Intermediate for the Oxygen Evolution Reaction in Acidic Media. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5845-5855	9.6	43
331	Expanding the Rich Crystal Chemistry of Ruthenium(V) Oxides via the Discovery of BaRu2O6, Ba5Ru4O15, Ba2Ru3O10, and Sr2Ru3O9(OH) by pH-Controlled Hydrothermal Synthesis. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6295-6305	9.6	7
330	Probing the thermal effects of voltage hysteresis in anionic redox-based lithium-rich cathodes using isothermal calorimetry. <i>Nature Energy</i> , <b>2019</b> , 4, 647-656	62.3	74
329	Structural Instability Driven by Li/Na Competition in Na(LiIr)O Cathode Material for Li-Ion and Na-Ion Batteries. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 15644-15651	5.1	11

328	Thin Fiber-Based Separators for High-Rate Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8369-8375	6.1	10
327	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. <i>Nature Energy</i> , <b>2019</b> , 4, 977-987	62.3	78
326	A New Electrolyte Formulation for Securing High Temperature Cycling and Storage Performances of Na-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901431	21.8	26
325	Means of Using Cyclic Voltammetry to Rapidly Design a Stable DMC-Based Electrolyte for Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3723-A3730	3.9	21
324	Influence of Temperature-Driven Polymorphism and Disorder on Ionic Conductivity in LiZn(PO). <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1774-1781	5.1	8
323	Electrochemical Reduction of CO <sub>2</sub> Mediated by Quinone Derivatives: Implication for LiCO <sub>2</sub> Battery. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 6546-6554	3.8	58
322	Na <sub>1.7</sub> IrO <sub>3</sub> : A Tridimensional Na-Ion Insertion Material with a Redox Active Oxygen Network. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3285-3293	9.6	18
321	Fundamental understanding and practical challenges of anionic redox activity in Li-ion batteries. <i>Nature Energy</i> , <b>2018</b> , 3, 373-386	62.3	596
320	The Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> /Carbon Na-Ion Battery: Its Performance Understanding as Deduced from Differential Voltage Analysis. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A220-A227	3.9	24
319	Operando Monitoring of the Solution-Mediated Discharge and Charge Processes in a Na-O Battery Using Liquid-Electrochemical Transmission Electron Microscopy. <i>Nano Letters</i> , <b>2018</b> , 18, 1280-1289	11.5	61
318	Proton Ion Exchange Reaction in Li <sub>3</sub> IrO <sub>4</sub> : A Way to New H <sub>3+x</sub> IrO <sub>4</sub> Phases Electrochemically Active in Both Aqueous and Nonaqueous Electrolytes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702855	21.8	24
317	Polymorphism in Li <sub>4</sub> Zn(PO <sub>4</sub> ) <sub>2</sub> and Stabilization of its Structural Disorder to Improve Ionic Conductivity. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1379-1390	9.6	10
316	Electrochemical behavior of BiBO towards lithium-reversible conversion reactions without nanosizing. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 2330-2338	3.6	6
315	A Chemical Approach to Raise Cell Voltage and Suppress Phase Transition in O <sub>3</sub> Sodium Layered Oxide Electrodes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702599	21.8	77
314	Assessment of the Electrochemical Stability of Carbonate-Based Electrolytes in Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1222-A1230	3.9	35
313	Controlling the Specific CO <sub>2</sub> Adsorption on Electrochemically Formed Metallic Copper Surfaces. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H163-H169	3.9	1
312	The Role of the Electrode Surface in Na-Air Batteries: Insights in Electrochemical Product Formation and Chemical Growth of NaO <sub>2</sub> . <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701581	21.8	21
311	Origin of the High Capacity Manganese-Based Oxyfluoride Electrodes for Rechargeable Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5362-5372	9.6	14

310	Electrostatic Interactions versus Second Order Jahn-Teller Distortion as the Source of Structural Diversity in Li <sub>3</sub> MO <sub>4</sub> Compounds (M = Ru, Nb, Sb and Ta). <i>Chemistry of Materials</i> , <b>2018</b> , 30, 392-402	9.6	7
309	Will Sodium Layered Oxides Ever Be Competitive for Sodium Ion Battery Applications?. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3714-A3722	3.9	49
308	Anionic Redox Activity in a Newly Zn-Doped Sodium Layered Oxide P <sub>2</sub> -Na <sub>2/3</sub> Mn <sub>1-x</sub> Zn <sub>x</sub> O <sub>2</sub> (0	21.8	104
307	Revealing pH-Dependent Activities and Surface Instabilities for Ni-Based Electrocatalysts during the Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2884-2890	20.1	44
306	Direct Quantification of Anionic Redox over Long Cycling of Li-Rich NMC via Hard X-ray Photoemission Spectroscopy. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2721-2728	20.1	66
305	Rotating Ring Disk Electrode for Monitoring the Oxygen Release at High Potentials in Li-Rich Layered Oxides. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3326-A3333	3.9	3
304	Competition between Metal Dissolution and Gas Release in Li-Rich Li <sub>3</sub> RuyIr <sub>1-x</sub> O <sub>4</sub> Model Compounds Showing Anionic Redox. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7682-7690	9.6	17
303	Sulfate-Based Cathode Materials for Li- and Na-Ion Batteries. <i>Chemical Record</i> , <b>2018</b> , 18, 1394-1408	6.6	24
302	Impact of Structural Polymorphism on Ionic Conductivity in Lithium Copper Pyroborate LiCuBO <sub>3</sub> . <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 11646-11654	5.1	3
301	Chemical Activity of the Peroxide/Oxide Redox Couple: Case Study of BaRuO <sub>3</sub> in Aqueous and Organic Solvents. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3882-3893	9.6	6
300	Electrochemical Reduction of Oxygen in Aprotic Ionic Liquids Containing Metal Cations: A Case Study on the Na-O system. <i>ChemSusChem</i> , <b>2017</b> , 10, 1616-1623	8.3	25
299	Synthesis, Structure, and Electrochemical Properties of K-Based Sulfates KM(SO <sub>4</sub> ) with M = Fe and Cu. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2013-2021	5.1	25
298	Electrochemically activated MnO as a cathode material for sodium-ion batteries. <i>Electrochemistry Communications</i> , <b>2017</b> , 77, 81-84	5.1	11
297	Evidence for anionic redox activity in a tridimensional-ordered Li-rich positive electrode $\alpha$ -Li <sub>2</sub> IrO <sub>6</sub> . <i>Nature Materials</i> , <b>2017</b> , 16, 580-586	27	234
296	Improving ionic conductivity by Mg-doping of A <sub>2</sub> SnO <sub>3</sub> (A = Li <sup>+</sup> , Na <sup>+</sup> ). <i>Solid State Ionics</i> , <b>2017</b> , 308, 16-21	3.3	6
295	Chemical Recognition of Active Oxygen Species on the Surface of Oxygen Evolution Reaction Electrocatalysts. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8778-8782	3.6	37
294	The Li <sub>3</sub> RuyNb <sub>1-x</sub> O <sub>4</sub> (0 $\leq$ x $\leq$ 1) System: Structural Diversity and Li Insertion and Extraction Capabilities. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5331-5343	9.6	29
293	Laser Synthesis of Hard Carbon for Anodes in Na-Ion Battery. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600227	6.8	15

292	Activation of surface oxygen sites on an iridium-based model catalyst for the oxygen evolution reaction. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	274
291	Triggering the In Situ Electrochemical Formation of High Capacity Cathode Material from MnO. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602200	21.8	13
290	Chemical vs Electrochemical Formation of LiCO as a Discharge Product in Li-O/CO Batteries by Controlling the Superoxide Intermediate. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 214-222	6.4	81
289	Denticity and Mobility of the Carbonate Groups in AMCOF Fluorocarbonates: A Study on KMnCOF and High Temperature KCaCOF Polymorph. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13132-13139	5.1	2
288	Approaching the limits of cationic and anionic electrochemical activity with the Li-rich layered rocksalt Li3IrO4. <i>Nature Energy</i> , <b>2017</b> , 2, 954-962	62.3	108
287	Synthesis of Li-Rich NMC: A Comprehensive Study. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9923-9936	9.6	68
286	Decoupling Cationic/Anionic Redox Processes in a Model Li-Rich Cathode via Operando X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9714-9724	9.6	69
285	Role of Electrolyte Anions in the NaO2 Battery: Implications for NaO2 Solvation and the Stability of the Sodium Solid Electrolyte Interphase in Glyme Ethers. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6066-6075	9.6	99
284	Phosphate Ion Functionalization of Perovskite Surfaces for Enhanced Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3466-3472	6.4	64
283	Dual Stabilization and Sacrificial Effect of Na2CO3 for Increasing Capacities of Na-Ion Cells Based on P2-NaxMO2 Electrodes. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5948-5956	9.6	64
282	Fundamental interplay between anionic/cationic redox governing the kinetics and thermodynamics of lithium-rich cathodes. <i>Nature Communications</i> , <b>2017</b> , 8, 2219	17.4	263
281	Sustainability and in situ monitoring in battery development. <i>Nature Materials</i> , <b>2016</b> , 16, 45-56	27	695
280	A2VO(SO4)2 (A = Li, Na) as Electrodes for Li-Ion and Na-Ion Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6637-6643	9.6	18
279	Iron Phosphate/Bacteria Composites as Precursors for Textured Electrode Materials with Enhanced Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2139-A2148	3.9	10
278	Synthesis, Structure, and Electrochemical Properties of NaMBO (M = Fe, Co) Containing M in Tetrahedral Coordination. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 12775-12782	5.1	13
277	Microsized Sn as Advanced Anodes in Glyme-Based Electrolyte for Na-Ion Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 9824-9830	24	151
276	The Li-Ion Battery: 25 Years of Exciting and Enriching Experiences. <i>Electrochemical Society Interface</i> , <b>2016</b> , 25, 79-83	3.6	29
275	Electrochemical Activation of Silica for Enhanced Performances of Si-Based Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2791-A2796	3.9	14

274	Strong Oxygen Participation in the Redox Governing the Structural and Electrochemical Properties of Na-Rich Layered Oxide Na <sub>2</sub> IrO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8278-8288	9.6	98
273	Magnetic Structures of Orthorhombic LiM(SO) (M = Co, Fe) and LiFe(SO) (x = 1, 1.5) Phases. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 11760-11769	5.1	6
272	Insertion compounds and composites made by ball milling for advanced sodium-ion batteries. <i>Nature Communications</i> , <b>2016</b> , 7, 10308	17.4	156
271	A Fully Ordered Triplite, LiCuSO <sub>4</sub> F. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1607-1610	9.6	5
270	Long-Time and Reliable Gas Monitoring in Li-O <sub>2</sub> Batteries via a Swagelok Derived Electrochemical Cell. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A923-A929	3.9	32
269	Optimization of Na-Ion Battery Systems Based on Polyanionic or Layered Positive Electrodes and Carbon Anodes. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A867-A874	3.9	59
268	X-ray Photoemission Spectroscopy Study of Cationic and Anionic Redox Processes in High-Capacity Li-Ion Battery Layered-Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 862-874	3.8	91
267	Recent advances in electrospun carbon nanofibers and their application in electrochemical energy storage. <i>Progress in Materials Science</i> , <b>2016</b> , 76, 319-380	42.2	460
266	Nanomaterials for Electrochemical Energy Storage: the Good and the Bad. <i>Acta Chimica Slovenica</i> , <b>2016</b> , 63, 417-23	1.9	23
265	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> , <b>2016</b> , 163, A2965-A2976	3.9	107
264	Correlation Between Microstructure and Na Storage Behavior in Hard Carbon. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501588	21.8	261
263	Unveiling the electrochemical mechanisms of Li <sub>2</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> polymorphs by neutron diffraction and density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 14509-19	3.6	14
262	Electrochemical activity and high ionic conductivity of lithium copper pyroborate Li <sub>6</sub> CuB <sub>4</sub> O <sub>10</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 14960-9	3.6	11
261	Thermodynamic Properties of Polymorphs of Fluorosulfate Based Cathode Materials with Exchangeable Potassium Ions. <i>ChemPhysChem</i> , <b>2016</b> , 17, 3365-3368	3.2	5
260	Na Reactivity toward Carbonate-Based Electrolytes: The Effect of FEC as Additive. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2333-A2339	3.9	114
259	Influence of relative humidity on the structure and electrochemical performance of sustainable LiFeSO <sub>4</sub> F electrodes for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16988-16997	13	27
258	Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A1341-A1351	3.9	36
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252	Thermodynamic stability and correlation with synthesis conditions, structure and phase transformations in orthorhombic and monoclinic Li <sub>2</sub> M(SO <sub>4</sub> ) <sub>2</sub> (M = Mn, Fe, Co, Ni) polymorphs. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2601-2608	13	14
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125	Scattering mechanisms and electronic behavior in transparent conducting Zn <sub>x</sub> In <sub>2</sub> O <sub>x+3</sub> indium/zinc oxide thin films. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 4291-4297	2.5	51
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96	Infrared reflectivity of single-crystal Bi <sub>2</sub> M <sub>m+1</sub> Co <sub>m</sub> O <sub>y</sub> (M=Ca,Sr,Ba; m=1,2), Bi <sub>2</sub> Sr <sub>3</sub> Fe <sub>2</sub> O <sub>9.2</sub> , and Bi <sub>2</sub> Sr <sub>2</sub> MnO <sub>6.25</sub> , isomorphic to Bi-Cu-based high-T <sub>c</sub> oxides. <i>Physical Review B</i> , <b>1991</b> , 43, 3026-3033	3.3	29
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86	Epitaxial cuprate superconductor/ferroelectric heterostructures. <i>Science</i> , <b>1991</b> , 252, 944-6	33-3	210
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81	Epitaxial growth of ferroelectric bismuth titanate thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1505-1507	3-4	113
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39	Superconducting AgMo <sub>6</sub> S <sub>8</sub> thin films prepared by reactive sputtering. <i>Journal of Applied Physics</i> , <b>1987</b> , 61, 4829-4834	2.5	
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22	Extended x-ray absorption fine structure (EXAFS) studies of a soluble Chevrel phase. <i>Inorganic Chemistry</i> , <b>1987</b> , 26, 1669-1674	5.1	3
21	Lithium insertion in the two crystallographic forms of the binary-phase Mo <sub>15</sub> Se <sub>19</sub> . <i>Physical Review B</i> , <b>1986</b> , 33, 2625-2635	3.3	8
20	Lithium-insertion reactions in Li <sub>x</sub> Mo <sub>6</sub> Se <sub>8</sub> -yly structural studies and the absence of triclinic distortions. <i>Physical Review B</i> , <b>1986</b> , 34, 7342-7349	3.3	5
19	Mo <sub>6</sub> Se <sub>6</sub> : A New Solid-State Electrode for Secondary Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>1985</b> , 132, 2089-2093	3.9	45
18	Synthesis and peculiar properties of InMo <sub>6</sub> S <sub>8</sub> -xSex, TlMo <sub>6</sub> S <sub>8</sub> -xSex, and Hg <sub>y</sub> Mo <sub>6</sub> S <sub>8</sub> -xSex. <i>Physical Review B</i> , <b>1985</b> , 31, 1012-1021	3.3	16
17	Large ternary-metal contributions to the wave functions at the Fermi level in TlMo <sub>6</sub> Se <sub>8</sub> . <i>Physical Review B</i> , <b>1985</b> , 32, 1461-1463	3.3	6
16	Effects of the crystal field upon the magnetic behavior of samarium in the SmMo <sub>6</sub> S <sub>8</sub> -xSex solid solution. <i>Inorganic Chemistry</i> , <b>1985</b> , 24, 2808-2812	5.1	4
15	Structural and electronic instabilities in M <sub>2</sub> +Mo <sub>6</sub> S <sub>8</sub> compounds. <i>Inorganic Chemistry</i> , <b>1985</b> , 24, 2598-2604	4.1	10
14	New superconducting ternary molybdenum chalcogenides InMo <sub>6</sub> Se <sub>8</sub> , TlMo <sub>6</sub> S <sub>8</sub> , and TlMo <sub>6</sub> Se <sub>8</sub> . <i>Physical Review B</i> , <b>1984</b> , 29, 172-180	3.3	41
13	Superconductivity, magnetic susceptibility, and magnetic resonance studies of the pseudobinary systems europium molybdenum sulfide-europium molybdenum selenide (Eu <sub>1.2</sub> Mo <sub>6</sub> S <sub>8</sub> -Eu <sub>1.2</sub> Mo <sub>6</sub> Se <sub>8</sub> ) and lanthanum molybdenum selenide-europium molybdenum selenide (LaMo <sub>6</sub> Se <sub>8</sub> -EuMo <sub>6</sub> Se <sub>8</sub> ). <i>Inorganic Chemistry</i> , <b>1984</b> , 23, 1094-1100	5.1	3
12	Chalcogen ordering on special-position sites in ternary molybdenum chalcogenides. <i>Inorganic Chemistry</i> , <b>1983</b> , 22, 3773-3776	5.1	12
11	Energy density of electronic states in rare-earth molybdenum chalcogenides as deduced from studies of chemical substitution effects of superconductivity. <i>Inorganic Chemistry</i> , <b>1983</b> , 22, 3769-3772	5.1	4
10	Preparation and chemical and physical properties of the new layered phases Li <sub>x</sub> Tl <sub>1-y</sub> MyS <sub>2</sub> with M=V,Cr,orFe. <i>Physical Review B</i> , <b>1983</b> , 28, 6397-6406	3.3	17
9	An Investigation of the Compressibility of LaB <sub>6</sub> and EuB <sub>6</sub> Using a High Pressure X-Ray Power Diffraction Technique. <i>Physica Scripta</i> , <b>1982</b> , 26, 414-416	2.6	13
8	Ambivalent behavior of ytterbium in the ytterbium molybdenum sulfide (YbMo <sub>6</sub> S <sub>8</sub> )-ytterbium molybdenum selenide (YbMo <sub>6</sub> Se <sub>8</sub> ) pseudobinary system. <i>Inorganic Chemistry</i> , <b>1982</b> , 21, 1505-1511	5.1	8
7	Transport and magnetic properties of carbon doped EuB <sub>6</sub> . <i>Journal of Applied Physics</i> , <b>1981</b> , 52, 2158-2160	5	10
6	Magnetic and transport properties of pure and carbon-doped divalent RE hexaboride single crystals. <i>Journal of Applied Physics</i> , <b>1980</b> , 51, 574-577	2.5	78
5	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> , 2102785	21.8	10

4	In Search of the Best Solid Electrolyte-Layered Oxide Pairing for Assembling Practical All-Solid-State Batteries. <i>ACS Applied Energy Materials</i> ,	6.1	6
3	Monitoring battery electrolyte chemistry via in-operando tilted fiber Bragg grating sensors. <i>Energy and Environmental Science</i> ,	35.4	8
2	Self-Healing: An Emerging Technology for Next-Generation Smart Batteries. <i>Advanced Energy Materials</i> ,2102652	21.8	7
1	Distributed Fiber Optic Sensing to Assess In-Live Temperature Imaging Inside Batteries: Rayleigh and FBGs. <i>Journal of the Electrochemical Society</i> ,	3.9	5