

# Joachim Maier

## List of Publications by Year in descending order

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391  
papers

49,730  
citations

1231

110  
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1745

212  
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403  
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403  
docs citations

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times ranked

33150  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoionics: ion transport and electrochemical storage in confined systems. <i>Nature Materials</i> , 2005, 4, 805-815.	13.3	1,356
2	Guidelines and trends for next-generation rechargeable lithium and lithium-ion batteries. <i>Chemical Society Reviews</i> , 2020, 49, 1569-1614.	18.7	1,326
3	Efficient Synthesis of Heteroatom (N or S)-Doped Graphene Based on Ultrathin Graphene Oxide/Porous Silica Sheets for Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2012, 22, 3634-3640.	7.8	1,180
4	Mixed-Organic-Cation Perovskite Photovoltaics for Enhanced Solar-Light Harvesting. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3151-3157.	7.2	1,117
5	Lithium Storage in Carbon Nanostructures. <i>Advanced Materials</i> , 2009, 21, 2664-2680.	11.1	1,029
6	Ionic conduction in space charge regions. <i>Progress in Solid State Chemistry</i> , 1995, 23, 171-263.	3.9	1,002
7	Hollow Carbon Nanospheres with Superior Rate Capability for Sodium-Based Batteries. <i>Advanced Energy Materials</i> , 2012, 2, 873-877.	10.2	996
8	Superior Storage Performance of a Si@SiO <sub>2</sub> /C Nanocomposite as Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1645-1649.	7.2	910
9	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , 2018, 11, 1945-1976.	15.6	894
10	High Lithium Electroactivity of Nanometer-Sized Rutile TiO <sub>2</sub> . <i>Advanced Materials</i> , 2006, 18, 1421-1426.	11.1	830
11	Single-Layered Ultrasmall Nanoplates of MoS <sub>2</sub> Embedded in Carbon Nanofibers with Excellent Electrochemical Performance for Lithium and Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2152-2156.	7.2	826
12	Mesoscopic fast ion conduction in nanometre-scale planar heterostructures. <i>Nature</i> , 2000, 408, 946-949.	13.7	761
13	Nanocrystallinity effects in lithium battery materials. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5215.	1.3	668
14	Synthesis of Hierarchically Porous Carbon Monoliths with Highly Ordered Microstructure and Their Application in Rechargeable Lithium Batteries with High-Rate Capability. <i>Advanced Functional Materials</i> , 2007, 17, 1873-1878.	7.8	664
15	Fully Reversible Homogeneous and Heterogeneously Li Storage in RuO <sub>2</sub> with High Capacity. <i>Advanced Functional Materials</i> , 2003, 13, 621-625.	7.8	598
16	Superior Electrode Performance of Nanostructured Mesoporous TiO <sub>2</sub> (Anatase) through Efficient Hierarchical Mixed Conducting Networks. <i>Advanced Materials</i> , 2007, 19, 2087-2091.	11.1	592
17	Proton conducting alkaline earth zirconates and titanates for high drain electrochemical applications. <i>Solid State Ionics</i> , 2001, 145, 295-306.	1.3	575
18	Li-Storage via Heterogeneous Reaction in Selected Binary Metal Fluorides and Oxides. <i>Journal of the Electrochemical Society</i> , 2004, 151, A1878.	1.3	559

#	ARTICLE	IF	CITATIONS
19	Reversible Storage of Lithium in Silver-Coated Three-Dimensional Macroporous Silicon. <i>Advanced Materials</i> , 2010, 22, 2247-2250.	11.1	558
20	Encapsulation of Sn@carbon Nanoparticles in Bamboo-like Hollow Carbon Nanofibers as an Anode Material in Lithium-Based Batteries. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6485-6489.	7.2	551
21	Sustained Lithium Storage Performance of Hierarchical, Nanoporous Anatase TiO <sub>2</sub> at High Rates: Emphasis on Interfacial Storage Phenomena. <i>Advanced Functional Materials</i> , 2011, 21, 3464-3472.	7.8	543
22	Nitrogen doped porous carbon fibres as anode materials for sodium ion batteries with excellent rate performance. <i>Nanoscale</i> , 2014, 6, 1384-1389.	2.8	542
23	Challenges and Perspectives for NASICON-Type Electrode Materials for Advanced Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1700431.	11.1	499
24	Fundamentals, status and promise of sodium-based batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1020-1035.	23.3	496
25	Nanographene-Constructed Hollow Carbon Spheres and Their Favorable Electroactivity with Respect to Lithium Storage. <i>Advanced Materials</i> , 2010, 22, 838-842.	11.1	473
26	Graphene-Based Nanosheets with a Sandwich Structure. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4795-4799.	7.2	457
27	The Significance of Ion Conduction in a Hybrid Organic-Inorganic Lead-Iodide-Based Perovskite Photosensitizer. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7905-7910.	7.2	447
28	Carbon-Coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Embedded in Porous Carbon Matrix: An Ultrafast Na-Storage Cathode with the Potential of Outperforming Li Cathodes. <i>Nano Letters</i> , 2014, 14, 2175-2180.	4.5	446
29	Large tunable photoeffect on ion conduction in halide perovskites and implications for photodecomposition. <i>Nature Materials</i> , 2018, 17, 445-449.	13.3	410
30	Tin Nanoparticles Encapsulated in Porous Multichannel Carbon Microtubes: Preparation by Single-Nozzle Electrospinning and Application as Anode Material for High-Performance Li-Based Batteries. <i>Journal of the American Chemical Society</i> , 2009, 131, 15984-15985.	6.6	404
31	Towards better Li metal anodes: Challenges and strategies. <i>Materials Today</i> , 2020, 33, 56-74.	8.3	404
32	Uniform yolk-shell Sn <sub>4</sub> P <sub>3</sub> @C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3531-3538.	15.6	401
33	Generalised equivalent circuits for mass and charge transport: chemical capacitance and its implications. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1668-1678.	1.3	396
34	Improved Electrode Performance of Porous LiFePO <sub>4</sub> Using RuO <sub>2</sub> as an Oxidic Nanoscale Interconnect. <i>Advanced Materials</i> , 2007, 19, 1963-1966.	11.1	380
35	Oxygen-Deficient TiO <sub>2</sub> Nanoparticles via Hydrogen Reduction for High Rate Capability Lithium Batteries. <i>Chemistry of Materials</i> , 2012, 24, 543-551.	3.2	373
36	Grain Boundary Blocking Effect in Zirconia: A Schottky Barrier Analysis. <i>Journal of the Electrochemical Society</i> , 2001, 148, E121.	1.3	362

#	ARTICLE	IF	CITATIONS
37	Space charge regions in solid two-phase systems and their conduction contribution <sup>†</sup> . Conductance enhancement in the system ionic conductor- <sup>†</sup> inert <sup>†</sup> phase and application on AgCl:Al <sub>2</sub> O <sub>3</sub> and AgCl:SiO <sub>2</sub> . Journal of Physics and Chemistry of Solids, 1985, 46, 309-320.	1.9	341
38	Reversible Formation and Decomposition of LiF Clusters Using Transition Metal Fluorides as Precursors and Their Application in Rechargeable Li Batteries. Advanced Materials, 2003, 15, 736-739.	11.1	334
39	How Is Oxygen Incorporated into Oxides? A Comprehensive Kinetic Study of a Simple Solid-State Reaction with SrTiO <sub>3</sub> as a Model Material. Angewandte Chemie - International Edition, 2008, 47, 3874-3894.	7.2	325
40	Dual-Functionalized Double Carbon Shells Coated Silicon Nanoparticles for High Performance Lithium-Ion Batteries. Advanced Materials, 2017, 29, 1605650.	11.1	325
41	MOF-Derived Hollow Co <sub>9</sub> S <sub>8</sub> Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. Small, 2016, 12, 2354-2364.	5.2	306
42	On the Conductivity Mechanism of Nanocrystalline Ceria. Journal of the Electrochemical Society, 2002, 149, J73.	1.3	295
43	Treatment of the Impedance of Mixed Conductors Equivalent Circuit Model and Explicit Approximate Solutions. Journal of the Electrochemical Society, 1999, 146, 4183-4188.	1.3	292
44	Fabrication of Cobalt and Cobalt Oxide/Graphene Composites: Towards High-Performance Anode Materials for Lithium Ion Batteries. ChemSusChem, 2010, 3, 236-239.	3.6	290
45	Blocking Grain Boundaries in Yttria-Doped and Undoped Ceria Ceramics of High Purity. Journal of the American Ceramic Society, 2003, 86, 77-87.	1.9	288
46	Anisotropy of Electronic and Ionic Transport in LiFePO <sub>4</sub> Single Crystals. Electrochemical and Solid-State Letters, 2007, 10, A13.	2.2	287
47	A Germanium-Carbon Nanocomposite Material for Lithium Batteries. Advanced Materials, 2008, 20, 3079-3083.	11.1	271
48	Electrospun Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C nanofibers as stable cathode materials for sodium-ion batteries. Nanoscale, 2014, 6, 5081.	2.8	266
49	A new ultrafast superionic Li-conductor: ion dynamics in Li <sub>11</sub> Si <sub>2</sub> PS <sub>12</sub> and comparison with other tetragonal LGPS-type electrolytes. Physical Chemistry Chemical Physics, 2014, 16, 14669-14674.	1.3	256
50	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithium-Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 9632-9636.	7.2	245
51	Combined theoretical and experimental analysis of processes determining cathode performance in solid oxide fuel cells. Physical Chemistry Chemical Physics, 2013, 15, 5443.	1.3	240
52	Peapod-Like Carbon-Encapsulated Cobalt Chalcogenide Nanowires as Cycle-Stable and High-Rate Materials for Sodium-Ion Anodes. Advanced Materials, 2016, 28, 7276-7283.	11.1	237
53	The nanoscale circuitry of battery electrodes. Science, 2017, 358, .	6.0	235
54	Synthesis and Electrode Performance of Nanostructured V <sub>2</sub> O <sub>5</sub> by Using a Carbon Tube-in-Tube as a Nanoreactor and an Efficient Mixed-Conducting Network. Angewandte Chemie - International Edition, 2009, 48, 210-214.	7.2	229

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55	Electrospinning of Highly Electroactive Carbon-Coated Single-Crystalline LiFePO <sub>4</sub> Nanowires. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6278-6282.	7.2	223
56	Partial Conductivities in SrTiO <sub>3</sub> : Bulk Polarization Experiments, Oxygen Concentration Cell Measurements, and Defect-Chemical Modeling. <i>Journal of the American Ceramic Society</i> , 1995, 78, 3265-3272.	1.9	219
57	Electrochemical lithiation synthesis of nanoporous materials with superior catalytic and capacitive activity. <i>Nature Materials</i> , 2006, 5, 713-717.	13.3	219
58	Direct Observation of Lithium Staging in Partially Delithiated LiFePO <sub>4</sub> at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2011, 133, 4661-4663.	6.6	219
59	Hollow Carbon Nanospheres with a High Rate Capability for Lithium-Based Batteries. <i>ChemSusChem</i> , 2012, 5, 400-403.	3.6	215
60	The Nature of Ion Conduction in Methylammonium Lead Iodide: A Multimethod Approach. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7755-7759.	7.2	213
61	Low-Temperature Ionic-Liquid-Based Synthesis of Nanostructured Iron-Based Fluoride Cathodes for Lithium Batteries. <i>Advanced Materials</i> , 2010, 22, 3650-3654.	11.1	209
62	High Power-High Energy Sodium Battery Based on Threefold Interpenetrating Network. <i>Advanced Materials</i> , 2016, 28, 2409-2416.	11.1	205
63	Quantitative Comparison of Mixed Conducting SOFC Cathode Materials by Means of Thin Film Model Electrodes. <i>Journal of the Electrochemical Society</i> , 2007, 154, B931.	1.3	204
64	Second Phase Effects on the Conductivity of Non-Aqueous Salt Solutions: "Soggy Sand Electrolytes". <i>Advanced Materials</i> , 2004, 16, 811-814.	11.1	202
65	Carbon-Encapsulated Pyrite as Stable and Earth-Abundant High Energy Cathode Material for Rechargeable Lithium Batteries. <i>Advanced Materials</i> , 2014, 26, 6025-6030.	11.1	201
66	Evidence for Interfacial-Storage Anomaly in Nanocomposites for Lithium Batteries from First-Principles Simulations. <i>Physical Review Letters</i> , 2006, 96, 058302.	2.9	200
67	Mixed-Conducting Perovskites as Cathode Materials for Protonic Ceramic Fuel Cells: Understanding the Trends in Proton Uptake. <i>Advanced Functional Materials</i> , 2018, 28, 1801241.	7.8	198
68	Defect Chemistry and Conductivity Effects in Heterogeneous Solid Electrolytes. <i>Journal of the Electrochemical Society</i> , 1987, 134, 1524-1535.	1.3	196
69	Defect chemistry and ion transport in nanostructured materials Part II. Aspects of nanoionics. <i>Solid State Ionics</i> , 2003, 157, 327-334.	1.3	193
70	Symbiotic Coaxial Nanocables: Facile Synthesis and an Efficient and Elegant Morphological Solution to the Lithium Storage Problem. <i>Chemistry of Materials</i> , 2010, 22, 1908-1914.	3.2	193
71	Precursor-Controlled Formation of Novel Carbon/Metal and Carbon/Metal Oxide Nanocomposites. <i>Advanced Materials</i> , 2008, 20, 1727-1731.	11.1	192
72	Enhanced Potential of Amorphous Electrode Materials: Case Study of RuO <sub>2</sub> . <i>Advanced Materials</i> , 2008, 20, 501-505.	11.1	185

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73	Ionic and electronic transport in single crystalline LiFePO <sub>4</sub> grown by optical floating zone technique. Solid State Ionics, 2008, 179, 1683-1687.	1.3	183
74	Electron and Ion Transport In Li <sub>2</sub> O <sub>2</sub> . Advanced Materials, 2013, 25, 3129-3133.	11.1	182
75	Thermodynamics of Electrochemical Lithium Storage. Angewandte Chemie - International Edition, 2013, 52, 4998-5026.	7.2	181
76	Transforming Hybrid Organic Inorganic Perovskites by Rapid Halide Exchange. Chemistry of Materials, 2015, 27, 2181-2188.	3.2	179
77	A One-Step Approach Towards Carbon-Encapsulated Hollow Tin Nanoparticles and Their Application in Lithium Batteries. Small, 2007, 3, 2066-2069.	5.2	178
78	Electrochemical Investigations of SrTiO <sub>3</sub> Boundaries. Journal of the Electrochemical Society, 1997, 144, 3526-3536.	1.3	177
79	On the correlation of macroscopic and microscopic rate constants in solid state chemistry. Solid State Ionics, 1998, 112, 197-228.	1.3	177
80	An FeF <sub>3</sub> ·0.5H <sub>2</sub> O Polytype: A Microporous Framework Compound with Intersecting Tunnels for Li and Na Batteries. Journal of the American Chemical Society, 2013, 135, 11425-11428.	6.6	177
81	On the Conductivity of Polycrystalline Materials. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1986, 90, 26-33.	0.9	176
82	Characterization of adsorbed water layers on Y <sub>2</sub> O <sub>3</sub> -doped ZrO <sub>2</sub> . Solid State Ionics, 2001, 143, 181-204.	1.3	160
83	Pathways for Oxygen Incorporation in Mixed Conducting Perovskites: A DFT-Based Mechanistic Analysis for (La, Sr)MnO <sub>3</sub> . Journal of Physical Chemistry C, 2010, 114, 3017-3027.	1.5	160
84	Fast Li Storage in MoS <sub>2</sub> -Graphene-Carbon Nanotube Nanocomposites: Advantageous Functional Integration of 0D, 1D, and 2D Nanostructures. Advanced Energy Materials, 2015, 5, 1401170.	10.2	155
85	Space charge conduction: Simple analytical solutions for ionic and mixed conductors and application to nanocrystalline ceria. Physical Chemistry Chemical Physics, 2003, 5, 2268-2273.	1.3	154
86	Three-dimensionally interconnected nickel-antimony intermetallic hollow nanospheres as anode material for high-rate sodium-ion batteries. Nano Energy, 2015, 16, 389-398.	8.2	150
87	Carbon Nanotube Wiring of Electrodes for High-Rate Lithium Batteries Using an Imidazolium-Based Ionic Liquid Precursor as Dispersant and Binder: A Case Study on Iron Fluoride Nanoparticles. ACS Nano, 2011, 5, 2930-2938.	7.3	149
88	A Mesoporous Iron-Based Fluoride Cathode of Tunnel Structure for Rechargeable Lithium Batteries. Advanced Functional Materials, 2011, 21, 1391-1397.	7.8	149
89	Ultrafast lithium diffusion in bilayer graphene. Nature Nanotechnology, 2017, 12, 895-900.	15.6	149
90	High Lithium Storage Performance of FeS Nanodots in Porous Graphitic Carbon Nanowires. Advanced Functional Materials, 2015, 25, 2335-2342.	7.8	148

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91	Nanoionics: ionic charge carriers in small systems. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3011.	1.3	144
92	The Significance of Ion Conduction in a Hybrid Organic-Inorganic Lead-Iodide-Based Perovskite Photosensitizer. <i>Angewandte Chemie</i> , 2015, 127, 8016-8021.	1.6	143
93	Ion conduction and redistribution at grain boundaries in oxide systems. <i>Progress in Materials Science</i> , 2017, 89, 252-305.	16.0	143
94	A High Power-High Energy $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. <i>Chemistry of Materials</i> , 2017, 29, 5207-5215.	3.2	141
95	Interaction of oxygen with halide perovskites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10847-10855.	5.2	140
96	$\text{Li}_7\text{PS}_6$ and $\text{Li}_6\text{PS}_5\text{X}$ (X: Cl, Br, I): Possible Three-dimensional Diffusion Pathways for Lithium Ions and Temperature Dependence of the Ionic Conductivity by Impedance Measurements. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 1287-1294.	0.6	133
97	A quantum molecular dynamics study of proton conduction phenomena in $\text{BaCeO}_3$ . <i>Solid State Ionics</i> , 1996, 86-88, 647-652.	1.3	131
98	Hydrothermal carbon spheres containing silicon nanoparticles: synthesis and lithium storage performance. <i>Chemical Communications</i> , 2008, , 3759.	2.2	131
99	Microcontact Impedance Spectroscopy at Single Grain Boundaries in Fe-Doped $\text{SrTiO}_3$ Polycrystals. <i>Journal of the American Ceramic Society</i> , 2001, 84, 521-530.	1.9	126
100	Local and overall ionic conductivity in nanocrystalline $\text{CaF}_2$ . <i>Solid State Ionics</i> , 2000, 131, 159-164.	1.3	123
101	Jahn-Teller distortion around $\text{Fe}^{4+}$ in $\text{Fe}_4\text{O}_7$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> display="inline" $\text{Fe}^{4+}$		

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109	Oxygen incorporation into Fe-doped SrTiO <sub>3</sub> : Mechanistic interpretation of the surface reaction. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4140-4148.	1.3	113
110	Extremely High Silver Ionic Conductivity in Composites of Silver Halide (AgBr, AgI) and Mesoporous Alumina. <i>Advanced Functional Materials</i> , 2006, 16, 525-530.	7.8	111
111	Formation and migration of oxygen vacancies in La <sub>1-x</sub> Sr <sub>x</sub> Co <sub>1-y</sub> Fe <sub>y</sub> O <sub>3-<math>\delta</math></sub> perovskites: insight from ab initio calculations and comparison with Ba <sub>1-x</sub> Sr <sub>x</sub> Co <sub>1-y</sub> Fe <sub>y</sub> O <sub>3-<math>\delta</math></sub> . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 911-918.	1.3	111
112	A High-Capacity Cathode for Lithium Batteries Consisting of Porous Microspheres of Highly Amorphized Iron Fluoride Densified from Its Open Parent Phase. <i>Advanced Energy Materials</i> , 2013, 3, 113-119.	10.2	111
113	Defect Chemistry: Composition, Transport, and Reactions in the Solid State; Part I: Thermodynamics. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 313-335.	4.4	106
114	Dopant Segregation and Space Charge Effects in Proton-Conducting BaZrO <sub>3</sub> Perovskites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2453-2461.	1.5	106
115	Finite-Element Calculations on the Impedance of Electroceramics with Highly Resistive Grain Boundaries: I, Laterally Inhomogeneous Grain Boundaries. <i>Journal of the American Ceramic Society</i> , 1999, 82, 3485-3493.	1.9	105
116	Enhancement of the Li Conductivity in LiF by Introducing Glass/Crystal Interfaces. <i>Advanced Functional Materials</i> , 2012, 22, 1145-1149.	7.8	104
117	Synergistic, ultrafast mass storage and removal in artificial mixed conductors. <i>Nature</i> , 2016, 536, 159-164.	13.7	104
118	Electrical and Structural Characterization of a Low-Angle Tilt Grain Boundary in Iron-Doped Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 2003, 86, 922-928.	1.9	103
119	Multi-electron reaction materials for sodium-based batteries. <i>Materials Today</i> , 2018, 21, 960-973.	8.3	103
120	Roadmap on organic-inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , 2021, 9, .	2.2	102
121	Ionically Conducting Two-Dimensional Heterostructures. <i>Advanced Materials</i> , 2009, 21, 2619-2631.	11.1	99
122	Cross-Linking Hollow Carbon Sheet Encapsulated CuP <sub>2</sub> Nanocomposites for High Energy Density Sodium-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 7018-7027.	7.3	99
123	A Finite Element Study on the Grain Boundary Impedance of Different Microstructures. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2081-2089.	1.3	98
124	First-principles study of bulk and surface oxygen vacancies in SrTiO <sub>3</sub> crystal. <i>European Physical Journal B</i> , 2009, 72, 53-57.	0.6	94
125	Relevance of solid electrolytes for lithium-based batteries: A realistic view. <i>Journal of Electroceramics</i> , 2017, 38, 128-141.	0.8	94
126	Long-Range and Short-Range Structure of Proton-Conducting Y:BaZrO <sub>3</sub> . <i>Chemistry of Materials</i> , 2011, 23, 2994-3002.	3.2	93



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127	Simple phenomenological approach to premelting and sublattice melting in Frenkel disordered ionic crystals. <i>Physical Review B</i> , 1995, 51, 15789-15797.	1.1	91
128	Soggy-sand electrolytes: status and perspectives. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18318.	1.3	91
129	Thermochemical Stability of Hybrid Halide Perovskites. <i>ACS Energy Letters</i> , 2019, 4, 2859-2870.	8.8	91
130	Nonlinear electrical grain boundary properties in proton conducting $\text{BaZrO}_3$ supporting the space charge depletion model. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 730-740.	1.3	90
131	Proton conductivity in mixed-conducting BSFZ perovskite from thermogravimetric relaxation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16446.	1.3	89
132	Electrochemically driven conversion reaction in fluoride electrodes for energy storage devices. <i>Npj Computational Materials</i> , 2018, 4, .	3.5	89
133	Space Charge Regions in Solid Two Phase Systems and Their Conduction Contribution – II Contact Equilibrium at the Interface of Two Ionic Conductors and the Related Conductivity Effect. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1985, 89, 355-362.	0.9	87
134	On the proton conductivity in pure and gadolinium doped nanocrystalline cerium oxide. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 937-940.	1.3	85
135	Oxygen exchange kinetics on solid oxide fuel cell cathode materials – general trends and their mechanistic interpretation. <i>Journal of Materials Research</i> , 2012, 27, 2000-2008.	1.2	85
136	First Principles Calculations of Oxygen Vacancy Formation and Migration in $\text{Ba}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ Perovskites. <i>Journal of the Electrochemical Society</i> , 2011, 159, B219-B226.	1.3	84
137	3D Honeycomb Architecture Enables a High Rate and Long Life Iron (III) Fluoride – Lithium Battery. <i>Advanced Materials</i> , 2019, 31, e1905146.	11.1	84
138	Mass storage in space charge regions of nano-sized systems : (Nano-ionics. Part V). <i>Faraday Discussions</i> , 2007, 134, 51-66.	1.6	83
139	Proton uptake into the protonic cathode material $\text{BaCo}_{0.4}\text{Fe}_{0.4}\text{Zr}_{0.2}\text{O}_{3-\delta}$ and comparison to protonic electrolyte materials. <i>Solid State Ionics</i> , 2017, 299, 64-69.	1.3	82
140	Heterogeneous doping of silver bromide ( $\text{AgBr}:\text{Al}_2\text{O}_3$ ). <i>Materials Research Bulletin</i> , 1985, 20, 383-392.	2.7	80
141	Oxygen Tracer Diffusion in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4-y}$ Single Crystals. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2363-2369.	1.9	80
142	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium Storage Performance. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7238-7243.	7.2	80
143	Proton Conduction in Dense and Porous Nanocrystalline Ceria Thin Films. <i>Advanced Functional Materials</i> , 2013, 23, 5861-5867.	7.8	79
144	Interaction of oxygen with oxides: How to interpret measured effective rate constants?. <i>Solid State Ionics</i> , 2000, 135, 575-588.	1.3	78

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145	Boundary effects on the electrical conductivity of pure and doped cerium oxide thin films. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14351.	1.3	78
146	Tiny Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanoparticles embedded in carbon nanofibers as high-capacity and long-life anode materials for both Li-ion and Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20813.	1.3	78
147	A novel germanium/carbon nanotubes nanocomposite for lithium storage material. <i>Electrochimica Acta</i> , 2010, 55, 985-988.	2.6	77
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