

Joachim Maier

List of Publications by Year in descending order

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papers

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1231

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403
all docs

403
docs citations

403
times ranked

33150
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of multi-layered structures for proton conducting ceramic cells. Journal of Materials Chemistry A, 2022, 10, 2362-2373.	5.2	8
2	On the crystal structures of lithium thiocyanate monohydrate $\text{LiSCN} \cdot \text{H}_2\text{O}$ and the phase diagram $\text{LiSCN} - \text{H}_2\text{O}$. Journal of Physics and Chemistry of Solids, 2022, 160, 110299.	1.9	4
3	Theoretical and Experimental Studies of Charge Ordering in CaFeO_3 and SrFeO_3 Crystals. Physica Status Solidi (B): Basic Research, 2022, 259, 2100238.	0.7	6
4	Defect chemistry and proton uptake of $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4\pm\delta}$ and $\text{La}_{2-x}\text{Ba}_x\text{NiO}_{4\pm\delta}$ Ruddlesden-Popper phases. Journal of Solid State Chemistry, 2022, 306, 122731.	1.4	9
5	Photo de-mixing in mixed halide perovskites: the roles of ions and electrons. JPhys Energy, 2022, 4, 011001.	2.3	6
6	Influence of Y-substitution on phase composition and proton uptake of self-generated $\text{Ba}(\text{Ce},\text{Fe})\text{O}_{3\pm\delta}$ composites. Journal of Materials Chemistry A, 2022, 10, 2474-2482.	5.2	13
7	Discrete Modeling of Ionic Space Charge Zones in Solids. Physical Chemistry Chemical Physics, 2022, , .	1.3	0
8	Electronic modifications in $(\text{Ba},\text{La})(\text{Fe},\text{Zn},\text{Y})\text{O}_{3\pm\delta}$ unveiled by oxygen K-edge X-ray Raman scattering. Journal of Materials Chemistry A, 2022, 10, 8866-8876.	5.2	7
9	Influence of Porosity of Sulfide-Based Artificial Solid Electrolyte Interphases on Their Performance with Liquid and Solid Electrolytes in Li and Na Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 16147-16156.	4.0	11
10	Photo De-mixing in Dion-Jacobson 2D Mixed Halide Perovskites. Advanced Energy Materials, 2022, 12, .	10.2	14
11	Interfacial Effects in Lithium and Sodium Batteries. Advanced Energy Materials, 2021, 11, 2001455.	10.2	57
12	2D Doping of Proton Conductors: BaZrO_3 -Based Heterostructures. Advanced Energy Materials, 2021, 11, 2003267.	10.2	6
13	Photo-Effect on Ion Transport in Mixed Cation and Halide Perovskites and Implications for Photo-De-mixing**. Angewandte Chemie - International Edition, 2021, 60, 820-826.	7.2	43
14	Photo-Effect on Ion Transport in Mixed Cation and Halide Perovskites and Implications for Photo-De-mixing**. Angewandte Chemie, 2021, 133, 833-839.	1.6	8
15	Synthesis, characterization and thermal behaviour of solid phases in the quasi-ternary system $\text{Mg}(\text{SCN})_2 - \text{H}_2\text{O} - \text{THF}$. Dalton Transactions, 2021, 50, 6949-6961.	1.6	8
16	Enhanced ion transport in Li_2O and Li_2S films. Chemical Communications, 2021, 57, 6503-6506.	2.2	23
17	Effects of NiO addition on sintering and proton uptake of $\text{Ba}(\text{Zr},\text{Ce},\text{Y})\text{O}_{3\pm\delta}$. Journal of Materials Chemistry A, 2021, 9, 14775-14785.	5.2	27
18	Impact of hydration on ion transport in $\text{Li}_2\text{Sn}_2\text{S}_5 \cdot \text{H}_2\text{O}$. Journal of Materials Chemistry A, 2021, 9, 16532-16544.	5.2	13

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19	Synthesis and characterisation of two lithium-thiocyanate solvates with tetrahydrofuran: Li[SCN]·THF and Li[SCN]·2THF. Dalton Transactions, 2021, 50, 12292-12300.	1.6	4
20	Inelastic Electron Tunneling Spectroscopy at High Temperatures. Advanced Materials, 2021, 33, 2007299.	11.1	3
21	Tuning Ionic and Electronic Conductivities in the "Hollow" Perovskite MAPbI_3 . Chemistry of Materials, 2021, 33, 719-726.	3.2	24
22	Ion Transport, Defect Chemistry, and the Device Physics of Hybrid Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 1566-1576.	8.8	53
23	(Invited) Mass Transport and Storage in Li-Ion Electrodes: Bulk and Interfaces. ECS Meeting Abstracts, 2021, MA2021-01, 95-95.	0.0	0
24	Passivation Layers in Lithium and Sodium Batteries: Potential Profiles, Stabilities, and Voltage Drops. Advanced Functional Materials, 2021, 31, 2100938.	7.8	13
25	Crystal structure and oxygen nonstoichiometry of the third-order Ruddlesden-Popper phase $\text{Pr}_4(\text{Ni}_{0.9}\text{Co}_{0.1})_3\text{O}_{10-x}$. Open Ceramics, 2021, 6, 100094.	1.0	0
26	Fundamentals, status and promise of sodium-based batteries. Nature Reviews Materials, 2021, 6, 1020-1035.	23.3	496
27	Oxides with Mixed Protonic and Electronic Conductivity. Annual Review of Materials Research, 2021, 51, 461-493.	4.3	49
28	Grain boundary blocking effects in Sm/Yb-doped AlN ceramics. Journal of the European Ceramic Society, 2021, 41, 4870-4875.	2.8	18
29	Ion transport in nanocrystalline CaF_2 films. Journal of Applied Physics, 2021, 130, 105301.	1.1	0
30	Unravelling the Behavior of Dion-Jacobson Layered Hybrid Perovskites in Humid Environments. ACS Energy Letters, 2021, 6, 337-344.	8.8	44
31	Metal-Organic Framework-Derived Nanoconfinements of CoF_2 and Mixed-Conducting Wiring for High-Performance Metal Fluoride-Lithium Battery. ACS Nano, 2021, 15, 1509-1518.	7.3	69
32	Roadmap on organic-inorganic hybrid perovskite semiconductors and devices. APL Materials, 2021, 9, .	2.2	102
33	Small radius electron and hole polarons in PbX_2 ($X = \text{F, Cl, Br}$) crystals: a computational study. Journal of Materials Chemistry C, 2021, 9, 16536-16544.	2.7	8
34	The Role of Alkyl Chain Length and Halide Counter Ion in Layered Dion-Jacobson Perovskites with Aromatic Spacers. Journal of Physical Chemistry Letters, 2021, 12, 10325-10332.	2.1	23
35	Porosity of Solid Electrolyte Interphases on Alkali Metal Electrodes with Liquid Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 51767-51774.	4.0	21
36	Towards better Li metal anodes: Challenges and strategies. Materials Today, 2020, 33, 56-74.	8.3	404

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37	Influence of hydration and dopant ionic radius on the elastic properties of BaZrO ₃ . Solid State Ionics, 2020, 344, 115130.	1.3	11
38	Proton, Hydroxide Ion, and Oxide Ion Affinities of Closed-Shell Oxides: Importance for the Hydration Reaction and Correlation to Electronic Structure. Journal of Physical Chemistry C, 2020, 124, 1277-1284.	1.5	23
39	First principles calculations of oxygen reduction reaction at fuel cell cathodes. Current Opinion in Electrochemistry, 2020, 19, 122-128.	2.5	23
40	Chemical resistance and chemical capacitance. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 15-22.	0.3	10
41	Interdependence of Point Defects and Reaction Kinetics: CO and CH ₄ Oxidation on Ceria and Zirconia. Journal of Physical Chemistry C, 2020, 124, 18544-18556.	1.5	5
42	X-ray Spectroscopy of (Ba,Sr,La)(Fe,Zn,Y)O ₃ Identifies Structural and Electronic Features Favoring Proton Uptake. Chemistry of Materials, 2020, 32, 8502-8511.	3.2	23
43	Atomic-scale Identification of High-temperature Superconductivity at La ₂ CuO ₄ Interfaces. Microscopy and Microanalysis, 2020, 26, 738-739.	0.2	0
44	Atomic-scale Considerations on LaNiO ₃ -La ₂ CuO ₄ Heterostructures: Interface-thermoelectricity Relationship. Microscopy and Microanalysis, 2020, 26, 2626-2627.	0.2	0
45	Solid Electrolyte Interphase Evolution on Lithium Metal in Contact with Glyme-Based Electrolytes. Small, 2020, 16, e2000756.	5.2	31
46	Guidelines for Optimizing the Architecture of Battery Insertion Electrodes with Ohmic Surface, Coating, or Electrolyte Resistances. Journal of the Electrochemical Society, 2020, 167, 080505.	1.3	4
47	Interdependence of Oxygenation and Hydration in Mixed-Conducting (Ba,Sr)FeO ₃ Perovskites Studied by Density Functional Theory. Journal of Physical Chemistry C, 2020, 124, 11780-11789.	1.5	24
48	Ionically Generated Built-in Equilibrium Space Charge Zones—a Paradigm Change for Lead Halide Perovskite Interfaces. Advanced Functional Materials, 2020, 30, 2002426.	7.8	10
49	Oxygen surface exchange kinetics and electronic conductivity of the third-order Ruddlesden-Popper phase Pr ₄ Ni _{2.7} Co _{0.3} O ₁₀ . Solid State Ionics, 2020, 348, 115282.	1.3	7
50	Guidelines and trends for next-generation rechargeable lithium and lithium-ion batteries. Chemical Society Reviews, 2020, 49, 1569-1614.	18.7	1,326
51	First-principles comparative study of perfect and defective CsPbX ₃ (X = Br, I) crystals. Physical Chemistry Chemical Physics, 2020, 22, 3914-3920.	1.3	37
52	Effect of NiO addition on proton uptake of BaZr _{1-x} Y _x O _{3-x/2} and BaZr _{1-x} Sc _x O _{3-x/2} electrolytes. Solid State Ionics, 2020, 347, 115256.	1.3	22
53	On the Way to Optoionics. Helvetica Chimica Acta, 2020, 103, e2000073.	1.0	16
54	Alloying Reaction Confinement Enables High-Capacity and Stable Anodes for Lithium-Ion Batteries. ACS Nano, 2019, 13, 9511-9519.	7.3	48

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55	Thermochemical Stability of Hybrid Halide Perovskites. ACS Energy Letters, 2019, 4, 2859-2870.	8.8	91
56	3D Honeycomb Architecture Enables a High-Rate and Long-Life Iron (III) Fluoride-Lithium Battery. Advanced Materials, 2019, 31, e1905146.	11.1	84
57	Oxygen exchange kinetics on systematically doped ceria: a pulsed isotope exchange study. Journal of Materials Chemistry A, 2019, 7, 21854-21866.	5.2	32
58	Oxygen Surface Exchange Kinetics of Pr ₂ (Ni,Co)O _{4+δ} Thin-Film Model Electrodes. Journal of the Electrochemical Society, 2019, 166, F1088-F1095.	1.3	8
59	Thermodynamic stability of non-stoichiometric SrFeO _{3-δ} : a hybrid DFT study. Physical Chemistry Chemical Physics, 2019, 21, 3918-3931.	1.3	30
60	Frontispiz: Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium Storage Performance. Angewandte Chemie, 2019, 131, .	1.6	0
61	Transport and Charge Carrier Chemistry in Lithium Oxide. Journal of the Electrochemical Society, 2019, 166, A2215-A2220.	1.3	66
62	Boosting Sodium Storage in TiF ₃ /Carbon Core/Sheath Nanofibers through an Efficient Mixed-Conducting Network. Advanced Energy Materials, 2019, 9, 1901470.	10.2	16
63	Natural Vermiculite Enables High-Performance in Lithium-Sulfur Batteries via Electrical Double Layer Effects. Advanced Functional Materials, 2019, 29, 1902820.	7.8	50
64	Glyme-based liquid-solid electrolytes for lithium metal batteries. Journal of Materials Chemistry A, 2019, 7, 13331-13338.	5.2	13
65	Frontispiece: Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium Storage Performance. Angewandte Chemie - International Edition, 2019, 58, .	7.2	0
66	Solid-State Ionics of Hybrid Halide Perovskites. Journal of the American Chemical Society, 2019, 141, 8382-8396.	6.6	64
67	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium Storage Performance. Angewandte Chemie, 2019, 131, 7316-7321.	1.6	12
68	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium Storage Performance. Angewandte Chemie - International Edition, 2019, 58, 7238-7243.	7.2	80
69	First-principles calculations of iodine-related point defects in CsPb ₃ . Physical Chemistry Chemical Physics, 2019, 21, 7841-7846.	1.3	29
70	Sputter deposition and thermal evaporation of Li ₂ O, Li ₂ S, and Li ₂ Se films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 061515.	0.9	9
71	Transport and Charge Carrier Chemistry in Lithium Sulfide. Advanced Functional Materials, 2019, 29, 1807688.	7.8	50
72	Charge carrier chemistry in methylammonium lead iodide. Solid State Ionics, 2018, 321, 69-74.	1.3	37

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73	Structure and chemistry of interfaces between ceria and yttria-stabilized zirconia studied by analytical STEM. <i>Ultramicroscopy</i> , 2018, 188, 90-100.	0.8	5
74	Decoupling electron and ion storage and the path from interfacial storage to artificial electrodes. <i>Nature Energy</i> , 2018, 3, 102-108.	19.8	75
75	Kinetics of Space Charge Storage in Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1705999.	7.8	12
76	A Sulfur- and Limonene-Based Electrode for Lithium-Sulfur Batteries: High Performance by Self-Protection. <i>Advanced Materials</i> , 2018, 30, e1706643.	11.1	114
77	Electrochemically driven conversion reaction in fluoride electrodes for energy storage devices. <i>Npj Computational Materials</i> , 2018, 4, .	3.5	89
78	Multi-electron reaction materials for sodium-based batteries. <i>Materials Today</i> , 2018, 21, 960-973.	8.3	103
79	Large tunable photoeffect on ion conduction in halide perovskites and implications for photodecomposition. <i>Nature Materials</i> , 2018, 17, 445-449.	13.3	410
80	High-temperature superconductivity at the lanthanum cuprate/lanthanum-strontium nickelate interface. <i>Nanoscale</i> , 2018, 10, 8712-8720.	2.8	12
81	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. <i>Energy Storage Materials</i> , 2018, 10, 122-129.	9.5	50
82	Interfacial mass storage in nanocomposites. <i>Solid State Ionics</i> , 2018, 318, 54-59.	1.3	17
83	Dopant solubility in ceria: alloy thermodynamics combined with the DFT+U calculations. <i>Solid State Ionics</i> , 2018, 325, 258-264.	1.3	1
84	Slow CH_3NH_3^+ Diffusion in $\text{CH}_3\text{NH}_3\text{PbI}_3$ under Light Measured by Solid-State NMR and Tracer Diffusion. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21803-21806.	1.5	46
85	Interaction of oxygen with halide perovskites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10847-10855.	5.2	140
86	Surface termination effects on the oxygen reduction reaction rate at fuel cell cathodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11929-11940.	5.2	38
87	High-Temperature Thermoelectricity in LaNiO_3 - La_2CuO_4 Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22786-22792.	4.0	12
88	Increased Storage through Heterogeneous Doping. <i>Chemistry of Materials</i> , 2018, 30, 5041-5049.	3.2	4
89	High Lithium Transference Number Electrolytes Containing Tetra(triflyl)propene's Lithium Salt. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5116-5120.	2.1	35
90	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

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91	Cross-Linking Hollow Carbon Sheet Encapsulated CuP ₂ Nanocomposites for High Energy Density Sodium-Ion Batteries. ACS Nano, 2018, 12, 7018-7027.	7.3	99
92	Short-range ion dynamics in methylammonium lead iodide by multinuclear solid state NMR and ¹²⁷ I NQR. Physical Chemistry Chemical Physics, 2018, 20, 20043-20055.	1.3	42
93	Epitaxial 8YSZ/Y2Zr2O7 multilayers: a conductivity and strain study. Physical Chemistry Chemical Physics, 2018, 20, 19995-20003.	1.3	2
94	Completing the Picture of 2-(Aminomethylpyridinium) Lead Hybrid Perovskites: Insights into Structure, Conductivity Behavior, and Optical Properties. Chemistry of Materials, 2018, 30, 6289-6297.	3.2	32
95	Guidelines for optimizing the architecture of battery insertion electrodes based on the concept of wiring lengths. Physical Chemistry Chemical Physics, 2018, 20, 16449-16462.	1.3	24
96	New horizons for inorganic solid state ion conductors. Energy and Environmental Science, 2018, 11, 1945-1976.	15.6	894
97	Use of site symmetry in supercell models of defective crystals: polarons in CeO ₂ . Physical Chemistry Chemical Physics, 2017, 19, 8340-8348.	1.3	20
98	Space charge storage in composites: thermodynamics. Physical Chemistry Chemical Physics, 2017, 19, 6379-6396.	1.3	29
99	Ion conduction and redistribution at grain boundaries in oxide systems. Progress in Materials Science, 2017, 89, 252-305.	16.0	143
100	Challenges and Perspectives for NASICON-type Electrode Materials for Advanced Sodium-ion Batteries. Advanced Materials, 2017, 29, 1700431.	11.1	499
101	(Invited) The Effect of (La,Sr)MnO ₃ Cathode Surface Termination on Its Electronic Structure. ECS Transactions, 2017, 77, 67-73.	0.3	2
102	<i>i</i> Bulk Defect Chemistry of PCFC Cathode Materials: Discussion of Defect Interactions. ECS Transactions, 2017, 77, 133-138.	0.3	15
103	The Nature of Ion Conduction in Methylammonium Lead Iodide: A Multimethod Approach. Angewandte Chemie, 2017, 129, 7863-7867.	1.6	18
104	The Nature of Ion Conduction in Methylammonium Lead Iodide: A Multimethod Approach. Angewandte Chemie - International Edition, 2017, 56, 7755-7759.	7.2	213
105	A High Power "High Energy Na ₃ V ₂ (PO ₄) ₂ F ₃ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. Chemistry of Materials, 2017, 29, 5207-5215.	3.2	141
106	Tunable Oxygen Diffusion and Electronic Conduction in SrTiO ₃ by Dislocation-Induced Space Charge Fields. Advanced Functional Materials, 2017, 27, 1700243.	7.8	64
107	Phase constitution, Sr distribution and morphology of self-assembled La-Sr-Co-O composite films prepared by PLD. Solid State Ionics, 2017, 303, 172-180.	1.3	15
108	Dual-Functionalized Double Carbon Shells Coated Silicon Nanoparticles for High Performance Lithium-ion Batteries. Advanced Materials, 2017, 29, 1605650.	11.1	325

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109	Thermodynamic stability of stoichiometric LaFeO_3 and BiFeO_3 : a hybrid DFT study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3738-3755.	1.3	27
110	Analysis of self-trapped hole mobility in alkali halides and metal halides. <i>Solid State Ionics</i> , 2017, 302, 3-6.	1.3	29
111	Doping Strategies in Inorganic and Organic Materials. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 2083-2087.	0.6	9
112	Oxygen Exchange Activity of La-Sr-Co-O PLD Films and Quantification of $(\text{La,Sr})\text{CoO}_{3-x}$ \rightarrow $(\text{La,Sr})\text{CoO}_{4+x}$ \rightarrow O_{2-x} Triple Phase Boundary Activity. <i>Journal of the Electrochemical Society</i> , 2017, 164, F454-F463.	1.3	2
113	Interface Effects on the Ion Transport of Epitaxial $\text{Y}_2\text{Zr}_2\text{O}_7$ Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27257-27265.	4.0	11
114	The nanoscale circuitry of battery electrodes. <i>Science</i> , 2017, 358, .	6.0	235
115	Synergistic silver storage in the composite RbAg_{415} :graphite: Thermodynamics and kinetics. <i>Solid State Ionics</i> , 2017, 312, 97-105.	1.3	2
116	Dopant size effects on novel functionalities: High-temperature interfacial superconductivity. <i>Scientific Reports</i> , 2017, 7, 453.	1.6	28
117	Relevance of solid electrolytes for lithium-based batteries: A realistic view. <i>Journal of Electroceramics</i> , 2017, 38, 128-141.	0.8	94
118	Ultrafast lithium diffusion in bilayer graphene. <i>Nature Nanotechnology</i> , 2017, 12, 895-900.	15.6	149
119	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
120	Peapod-Like Carbon-Encapsulated Cobalt Chalcogenide Nanowires as Cycle-Stable and High-Rate Materials for Sodium-Ion Anodes. <i>Advanced Materials</i> , 2016, 28, 7276-7283.	11.1	237
121	MOF-Derived Hollow Co_9S_8 Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li^+ Ion Storage. <i>Small</i> , 2016, 12, 2354-2364.	5.2	306
122	Atomic-Scale Quantitative Analysis of Lattice Distortions at Interfaces of Two-Dimensionally Sr-Doped La_2CuO_4 Superlattices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6763-6769.	4.0	16
123	Infiltrated porous oxide monoliths as high lithium transference number electrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7135-7140.	5.2	29
124	$\text{Li}_{0.6}[\text{Li}_{0.2}\text{Sn}_{0.8}\text{S}_2]$ "a layered lithium superionic conductor. <i>Energy and Environmental Science</i> , 2016, 9, 2578-2585.	15.6	46
125	Ab initio modelling of oxygen vacancies and protonic defects in $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3-\delta}$ perovskite solid solutions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13093-13104.	5.2	33
126	Synergistic, ultrafast mass storage and removal in artificial mixed conductors. <i>Nature</i> , 2016, 536, 159-164.	13.7	104

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127	Ionic Conductivity of Organic-Inorganic Perovskites: Relevance for Long-Time and Low Frequency Behavior. , 2016, , 107-135.		5
128	Cationic Redistribution at Epitaxial Interfaces in Superconducting Two-Dimensionally Doped Lanthanum Cuprate Films. ACS Applied Materials & Interfaces, 2016, 8, 27368-27375.	4.0	19
129	High Power-High Energy Sodium Battery Based on Threefold Interpenetrating Network. Advanced Materials, 2016, 28, 2409-2416.	11.1	205
130	Surface Segregation Entropy of Protons and Oxygen Vacancies in BaZrO ₃ . Chemistry of Materials, 2016, 28, 1363-1368.	3.2	42
131	Electrochemical Circuit Elements. Acta Chimica Slovenica, 2016, 63, 578-582.	0.2	3
132	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
133	The Significance of Ion Conduction in a Hybrid Organic-Inorganic Lead-Iodide-Based Perovskite Photosensitizer. Angewandte Chemie, 2015, 127, 8016-8021.	1.6	143
134	Electrical Transport and Oxygen Exchange in the Superoxides of Potassium, Rubidium, and Cesium. Advanced Functional Materials, 2015, 25, 2552-2563.	7.8	30
135	High Lithium Storage Performance of FeS Nanodots in Porous Graphitic Carbon Nanowires. Advanced Functional Materials, 2015, 25, 2335-2342.	7.8	148
136	(Invited) Oxygen Reduction Reaction at Cathodes on Proton Conducting Oxide Electrolytes: Contribution from Three Phase Boundary Compared to Bulk Path. ECS Transactions, 2015, 66, 95-102.	0.3	14
137	Transforming Hybrid Organic Inorganic Perovskites by Rapid Halide Exchange. Chemistry of Materials, 2015, 27, 2181-2188.	3.2	179
138	Stoichiometry Variation in Materials with Three Mobile Carriers-Thermodynamics and Transport Kinetics Exemplified for Protons, Oxygen Vacancies, and Holes. Advanced Functional Materials, 2015, 25, 1542-1557.	7.8	64
139	Phase evolution in single-crystalline LiFePO ₄ followed by in situ scanning X-ray microscopy of a micrometre-sized battery. Nature Communications, 2015, 6, 6045.	5.8	72
140	Oxygen Reduction at Dense Thin-Film Microelectrodes on a Proton-Conducting Electrolyte. Journal of the Electrochemical Society, 2015, 162, F939-F950.	1.3	29
141	Ab Initio Study of BiFeO ₃ : Thermodynamic Stability Conditions. Journal of Physical Chemistry Letters, 2015, 6, 2847-2851.	2.1	48
142	Nanosheets of Earth-Abundant Jarosite as Novel Anodes for High-Rate and Long-Life Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 10518-10524.	4.0	15
143	Job-Sharing-Storage of Hydrogen in Ru/Li ₂ O Nanocomposites. Nano Letters, 2015, 15, 4170-4175.	4.5	36
144	Hydration entropy of BaZrO ₃ from first principles phonon calculations. Journal of Materials Chemistry A, 2015, 3, 7639-7648.	5.2	68

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145	Proton uptake in the H ⁺ -SOFC cathode material Ba _{0.5} Sr _{0.5} Fe _{0.8} Zn _{0.2} O ₃ : transition from hydration to hydrogenation with increasing oxygen partial pressure. Faraday Discussions, 2015, 182, 129-143.	1.6	76
146	Jarosite Nanosheets Fabricated via Room-Temperature Synthesis as Cathode Materials for High-Rate Lithium Ion Batteries. Chemistry of Materials, 2015, 27, 3143-3149.	3.2	26
147	Determination of individual contributions to the ionic conduction in liquid electrolytes: Case study of LiTf/PEGDME-150. Electrochemistry Communications, 2015, 60, 195-198.	2.3	13
148	High-temperature superconductivity in space-charge regions of lanthanum cuprate induced by two-dimensional doping. Nature Communications, 2015, 6, 8586.	5.8	53
149	The Significance of Ion Conduction in a Hybrid Organic-Inorganic Lead-Iodide-Based Perovskite Photosensitizer. Angewandte Chemie - International Edition, 2015, 54, 7905-7910.	7.2	447
150	Review Battery Materials: Why Defect Chemistry?. Journal of the Electrochemical Society, 2015, 162, A2380-A2386.	1.3	21
151	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
152	Influence of Hetero Grain Boundaries on Oxygen Exchange Activity: Investigation of Two-Phase (La,Sr)CoO _{3-δ} / (La,Sr)CoO ₂ CoO _{4+δ} Cathode Materials. ECS Transactions, 2015, 68, 579-589.	0.3	4
153	Uniform yolk-shell Sn ₄ P ₃ @C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. Energy and Environmental Science, 2015, 8, 3531-3538.	15.6	401
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