

# RÃ¼diger-Albert Eichel

## List of Publications by Year in descending order

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224  
papers

6,591  
citations

70961

41  
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91712

69  
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233  
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233  
docs citations

233  
times ranked

6606  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the moisture stability of multiphase $\text{Li}_3\text{PS}_4$ solid electrolyte materials. <i>Electrochemical Science Advances</i> , 2023, 3, .	1.2	3
2	Lithium intercalation into graphite: In operando analysis of Raman signal widths. <i>Electrochemical Science Advances</i> , 2022, 2, e2100068.	1.2	4
3	Solvation and Ion-Pairing Effects of Choline Acetate Electrolyte in Protic and Aprotic Solvents Studied by NMR Titrations. <i>ChemPhysChem</i> , 2022, 23, .	1.0	4
4	Independent component analysis combined with Laplace inversion of spectrally resolved spin-alignment echo/ <i>T</i> 3D $^{7}\text{Li}$ NMR of superionic $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ . <i>Zeitschrift Fur Physikalische Chemie</i> , 2022, 236, 899-922.	1.4	1
5	Unraveling the State of Charge-Dependent Electronic and Ionic Structureâ€“Property Relationships in NCM622 Cells by Multiscale Characterization. <i>ACS Applied Energy Materials</i> , 2022, 5, 1731-1742.	2.5	10
6	<i>Operando</i> transmission electron microscopy of battery cycling: thickness dependent breaking of $\text{TiO}_2$ coating on $\text{Si/SiO}_2$ nanoparticles. <i>Chemical Communications</i> , 2022, 58, 3130-3133.	2.2	2
7	Control of oxygen-to-carbon ratio and fuel utilization with regard to solid oxide fuel cell systems with anode exhaust gas recirculation: A review. <i>Journal of Power Sources</i> , 2022, 524, 231077.	4.0	15
8	Investigating the Interface between Ceramic Particles and Polymer Matrix in Hybrid Electrolytes by Electrochemical Strain Microscopy. <i>Nanomaterials</i> , 2022, 12, 654.	1.9	4
9	The role of the double layer for the pseudocapacitance of the hydrogen adsorption on platinum. <i>Scientific Reports</i> , 2022, 12, 3375.	1.6	6
10	Boundary Investigation of High-Temperature Co-Electrolysis Towards Direct $\text{CO}_2$ Electrolysis. <i>Journal of the Electrochemical Society</i> , 2022, 169, 034531.	1.3	5
11	Sr Substituted $\text{La}_{2-x}\text{Sr}_x\text{Ni}_{0.8}\text{Co}_{0.2}\text{O}_{4+\delta}$ ( $0 \leq x \leq 0.8$ ): Impact on Oxygen Stoichiometry and Electrochemical Properties. <i>Energies</i> , 2022, 15, 2136.	1.6	1
12	Performance and Degradation of Electrolyte-Supported Single Cell Composed of Mo-Au-Ni/GDC Fuel Electrode and LSCF Oxygen Electrode during High Temperature Steam Electrolysis. <i>Energies</i> , 2022, 15, 2726.	1.6	18
13	$\text{ZnFe}_2\text{O}_4$ hollow rods enabling accelerated polysulfide conversion for advanced lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2022, 414, 140231.	2.6	14
14	Soft-sensor based operation of a solid oxide fuel cell system with anode exhaust gas recirculation. <i>Journal of Power Sources</i> , 2022, 532, 231354.	4.0	1
15	$\text{Li}^+$ concentration waves in a liquid electrolyte of Li-ion batteries with porous graphite-based electrodes. <i>Energy Storage Materials</i> , 2022, 48, 475-486.	9.5	10
16	Exploring the Solvation Sphere and Spatial Accumulation of Dissolved Transition-Metal Ions in Batteries: A Case Study of Vanadyl Ions Released from $\text{V}_2\text{O}_5$ Cathodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 449-460.	2.5	9
17	Instability of the $\text{Li}_7\text{SiPS}_8$ Solid Electrolyte at the Lithium Metal Anode and Interphase Formation. <i>Chemistry of Materials</i> , 2022, 34, 3659-3669.	3.2	12
18	Ion transport and limited currents in supporting electrolytes and ionic liquids. <i>Scientific Reports</i> , 2022, 12, 6215.	1.6	4

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19	Active Interphase Enables Stable Performance for an All-Solid-State Battery. <i>Small</i> , 2022, 18, e2200266.	5.2	7
20	CO <sub>2</sub> /N <sub>2</sub> Separation on Highly Selective Carbon Nanofibers Investigated by Dynamic Gas Adsorption. <i>ChemSusChem</i> , 2022, 15, .	3.6	7
21	Quantifying local pH changes in carbonate electrolyte during copper-catalysed $\text{CO}_2$ electroreduction using in operando $^{13}\text{C}$ NMR. <i>Scientific Reports</i> , 2022, 12, 8274.	1.6	11
22	Feasibility and Limitations of High-Voltage Lithium-Iron-Manganese Spinels. <i>Journal of the Electrochemical Society</i> , 2022, 169, 070518.	1.3	1
23	Host Materials Anchoring Polysulfides in Li-S Batteries Reviewed. <i>Advanced Energy Materials</i> , 2021, 11, 2001304.	10.2	254
24	Cobalt substituted Pr <sub>2</sub> Ni <sub>1-x</sub> Co <sub>x</sub> O <sub>4</sub> (x = 0, 0.1, 0.2) oxygen electrodes: Impact on electrochemical performance and durability of solid oxide electrolysis cells. <i>Journal of Power Sources</i> , 2021, 482, 228909.	4.0	32
25	Erosion behavior of Y <sub>2</sub> O <sub>3</sub> in fluorine-based etching plasmas: Orientation dependency and reaction layer formation. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1465-1474.	1.9	13
26	Polyethylene oxide-Li <sub>6.5</sub> La <sub>3</sub> Zr <sub>1.5</sub> Ta <sub>0.5</sub> O <sub>12</sub> hybrid electrolytes: Lithium salt concentration and biopolymer blending. <i>Electrochemical Science Advances</i> , 2021, 1, e2000029.	1.2	4
27	Exploring the Interface of Skin-Layered Titanium Fibers for Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2002926.	10.2	48
28	Double layer capacitances analysed with impedance spectroscopy and cyclic voltammetry: validity and limits of the constant phase element parameterization. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21097-21105.	1.3	25
29	Strategies towards enabling lithium metal in batteries: interphases and electrodes. <i>Energy and Environmental Science</i> , 2021, 14, 5289-5314.	15.6	156
30	Transient morphology of lithium anodes in batteries monitored by in operando pulse electron paramagnetic resonance. <i>Communications Materials</i> , 2021, 2, .	2.9	11
31	Interface Aspects in All-Solid-State Li-Based Batteries Reviewed. <i>Advanced Energy Materials</i> , 2021, 11, 2003939.	10.2	66
32	Signal Origin of Electrochemical Strain Microscopy and Link to Local Chemical Distribution in Solid State Electrolytes. <i>Small Methods</i> , 2021, 5, 2001279.	4.6	10
33	Physicochemical Mechanisms of the Double-Layer Capacitance Dispersion and Dynamics: An Impedance Analysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5870-5879.	1.5	8
34	Enhanced sulfur utilization in lithium-sulfur batteries by hybrid modified separators. <i>Materials Today Communications</i> , 2021, 26, 102133.	0.9	6
35	Oxygen Nonstoichiometry and Valence State of Manganese in La <sub>x</sub> Ca <sub>1-x</sub> MnO <sub>3</sub> . <i>ACS Omega</i> , 2021, 6, 9638-9652.	1.6	7
36	Insights into the reactive sintering and separated specific grain/grain boundary conductivities of Li <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Power Sources</i> , 2021, 492, 229631.	4.0	40

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37	Integrated Co-Electrolysis and Syngas Methanation for the Direct Production of Synthetic Natural Gas from CO <sub>2</sub> and H <sub>2</sub> O. ChemSusChem, 2021, 14, 2295-2302.	3.6	13
38	Study of CO <sub>2</sub> Sorption Kinetics on Electrospun Polyacrylonitrile-Based Carbon Nanofibers. Chemical Engineering and Technology, 2021, 44, 1168-1177.	0.9	4
39	An electrochemical cell for in operando <sup>13</sup> C nuclear magnetic resonance investigations of carbon dioxide/carbonate processes in aqueous solution. Magnetic Resonance, 2021, 2, 265-280.	0.8	7
40	Nano-Scale Complexions Facilitate Li Dendrite-Free Operation in LATP Solid-State Electrolyte. Advanced Energy Materials, 2021, 11, 2100707.	10.2	36
41	Ultrathin 2D Fe-Nanosheets Stabilized by 2D Mesoporous Silica: Synthesis and Application in Ammonia Synthesis. ACS Applied Materials & Interfaces, 2021, 13, 30187-30197.	4.0	3
42	Modeling of Multi-Physics Phenomena for High-Temperature Co-Electrolysis. ECS Meeting Abstracts, 2021, MA2021-03, 148-148.	0.0	0
43	Investigation of La <sub>2</sub> X <sub>x</sub> Sr <sub>x</sub> Ni <sub>0.8</sub> Co <sub>0.2</sub> O <sub>4+d</sub> (0.0 ≤ x ≤ 0.2) Materials as Oxygen Electrodes for Solid Oxide Cells. ECS Transactions, 2021, 103, 1517-1524.	0.3	1
44	Lithium deposition in single-ion conducting polymer electrolytes. Cell Reports Physical Science, 2021, 2, 100496.	2.8	10
45	Investigation of La <sub>2</sub> X <sub>Sr</sub> Ni <sub>0.8</sub> Co <sub>0.2</sub> O <sub>4+d</sub> (0.0 ≤ x ≤ 0.2) Materials as Oxygen Electrodes for Solid Oxide Cells. ECS Meeting Abstracts, 2021, MA2021-03, 139-139.	0.0	0
46	Performance and Stability of Nickelates Based Oxygen Electrodes for Solid Oxide Cells. ECS Transactions, 2021, 103, 1505-1515.	0.3	2
47	Visualizing the Atomic Structure Between YSZ and LSM: An Interface Stabilized by Complexions?. ECS Transactions, 2021, 103, 1331-1337.	0.3	2
48	Performance and Processes of Pure CO <sub>2</sub> Electrolysis in Solid Oxide Cells. ECS Meeting Abstracts, 2021, MA2021-03, 216-216.	0.0	1
49	Performance and Processes of Pure CO <sub>2</sub> Electrolysis in Solid Oxide Cells. ECS Transactions, 2021, 103, 501-509.	0.3	1
50	Visualizing the Atomic Structure Between YSZ and LSM: An Interface Stabilized by Complexions?. ECS Meeting Abstracts, 2021, MA2021-03, 52-52.	0.0	0
51	Understanding High-Temperature Electrolysis. ECS Meeting Abstracts, 2021, MA2021-03, 214-214.	0.0	0
52	Modeling of Multi-Physics Phenomena for High-Temperature Co-Electrolysis. ECS Transactions, 2021, 103, 797-805.	0.3	2
53	Boundaries of High-Temperature Co-Electrolysis Towards Direct CO <sub>2</sub> -Electrolysis. ECS Transactions, 2021, 103, 493-500.	0.3	0
54	Analysis of the DRT as Evaluation Tool for EIS Data Analysis. ECS Meeting Abstracts, 2021, MA2021-03, 61-61.	0.0	0

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55	Boundaries of High-Temperature Co-Electrolysis Towards Direct CO <sub>2</sub> -Electrolysis. ECS Meeting Abstracts, 2021, MA2021-03, 215-215.	0.0	0
56	Performance and Stability of Nickelates Based Oxygen Electrodes for Solid Oxide Cells. ECS Meeting Abstracts, 2021, MA2021-03, 137-137.	0.0	0
57	Understanding High-Temperature Electrolysis. ECS Transactions, 2021, 103, 487-492.	0.3	0
58	Analysis of the DRT as Evaluation Tool for EIS Data Analysis. ECS Transactions, 2021, 103, 1403-1412.	0.3	6
59	Complexions at the Electrolyte/Electrode Interface in Solid Oxide Cells. Advanced Materials Interfaces, 2021, 8, 2100967.	1.9	8
60	Fracture behavior of solid electrolyte LATP material based on micro-pillar splitting method. Journal of the European Ceramic Society, 2021, 41, 5240-5247.	2.8	8
61	Improved Electrochemical Performance of Zinc Anodes by EDTA in Near-Neutral Zinc-Air Batteries. Batteries and Supercaps, 2021, 4, 1830-1842.	2.4	10
62	Atomic-scale investigation of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> formation process in chemical infiltration via in situ transmission electron microscope for solid-state sodium batteries. Nano Energy, 2021, 87, 106144.	8.2	12
63	Formation of a Stable Solid-Electrolyte Interphase at Metallic Lithium Anodes Induced by LiNbO <sub>3</sub> Protective Layers. ACS Applied Energy Materials, 2021, 4, 10333-10343.	2.5	11
64	Structural Study of Polyacrylonitrile-Based Carbon Nanofibers for Understanding Gas Adsorption. ACS Applied Materials & Interfaces, 2021, 13, 46665-46670.	4.0	11
65	Fabrication and interfacial characterization of Ni-rich thin-film cathodes for stable Li-ion batteries. Electrochimica Acta, 2021, 398, 139316.	2.6	13
66	Overpotential analysis of graphite-based Li-ion batteries seen from a porous electrode modeling perspective. Journal of Power Sources, 2021, 509, 230345.	4.0	33
67	Microstructural details of spindle-like lithium titanium phosphate revealed in three dimensions. RSC Advances, 2021, 11, 34605-34612.	1.7	1
68	The effect of cobalt on morphology, structure, and ORR activity of electrospun carbon fibre mats in aqueous alkaline environments. Beilstein Journal of Nanotechnology, 2021, 12, 1173-1186.	1.5	0
69	A Review of Degradation Mechanisms and Recent Achievements for Ni-Rich Cathode-Based Li-ion Batteries. Advanced Energy Materials, 2021, 11, 2103005.	10.2	206
70	Single-Ion-Conducting Polymer-in-Ceramic-Hybrid Electrolyte with an Intertwined NASICON-Type Nanofiber Skeleton. ACS Applied Materials & Interfaces, 2021, 13, 61067-61077.	4.0	14
71	Defects and Phase Formation in Non-Stoichiometric LaFeO <sub>3</sub> : a Combined Theoretical and Experimental Study. Chemistry of Materials, 2021, 33, 9473-9485.	3.2	9
72	Efficient Area Matched Converter Aided Solar Charging of Lithium Ion Batteries Using High Voltage Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 431-439.	2.5	29

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73	Analysis on discharge behavior and performance of As- and B-doped silicon anodes in non-aqueous Si-air batteries under pulsed discharge operation. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 93-109.	1.5	11
74	Flexible All-Solid-State Li-Ion Battery Manufacturable in Ambient Atmosphere. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 37067-37078.	4.0	14
75	Accessing Lithium-Oxygen Battery Discharge Products in Their Native Environments via Transmission Electron Microscopy Grid Electrode. <i>ACS Applied Energy Materials</i> , 2020, 3, 9509-9515.	2.5	6
76	On the reaction rate distribution in porous electrodes. <i>Electrochemistry Communications</i> , 2020, 121, 106865.	2.3	10
77	Direct Solid Oxide Electrolysis of Carbon Dioxide: Analysis of Performance and Processes. <i>Processes</i> , 2020, 8, 1390.	1.3	12
78	Post-Test Raman Investigation of Silver Based Gas Diffusion Electrodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 086505.	1.3	4
79	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. <i>ACS Applied Energy Materials</i> , 2020, 3, 5101-5106.	2.5	14
80	Synthesis of Ni-Rich Layered-Oxide Nanomaterials with Enhanced Li-Ion Diffusion Pathways as High-Rate Cathodes for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 6583-6590.	2.5	37
81	Tailored Gas Adsorption Properties of Electrospun Carbon Nanofibers for Gas Separation and Storage. <i>ChemSusChem</i> , 2020, 13, 3180-3191.	3.6	40
82	Sustainable Syngas Production by High-Temperature Co-electrolysis. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 40-44.	0.4	7
83	Warum wir uns mit Power-to-X beschäftigen. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 3-3.	0.4	3
84	Combined quantitative microscopy on the microstructure and phase evolution in $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ ceramics. <i>Journal of Advanced Ceramics</i> , 2020, 9, 149-161.	8.9	29
85	Morphology-controllable synthesis of $\text{LiCoPO}_4$ and its influence on electrochemical performance for high-voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2020, 450, 227726.	4.0	19
86	All-ceramic Li batteries based on garnet structured $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ . <i>Materials Technology</i> , 2020, 35, 656-674.	1.5	22
87	Anisotropy of the mechanical properties of $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ solid electrolyte material. <i>Journal of Power Sources</i> , 2019, 437, 226940.	4.0	15
88	Silicon and Iron as Resource-Efficient Anode Materials for Ambient-Temperature Metal-Air Batteries: A Review. <i>Materials</i> , 2019, 12, 2134.	1.3	46
89	Dynamics of $[\text{Pyr}_{13}][\text{Tf}_2\text{N}]$ ionic liquid confined to carbon black. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17018-17028.	1.3	10
90	Investigation of the Li-Co antisite exchange in Fe-substituted $\text{LiCoPO}_4$ cathode for high-voltage lithium ion batteries. <i>Energy Storage Materials</i> , 2019, 22, 138-146.	9.5	15

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91	Double-Shelled Co <sub>3</sub> O <sub>4</sub> /C Nanocages Enabling Polysulfides Adsorption for High-Performance Lithium-Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 8153-8162.	2.5	55
92	Direct Observation of SEI Formation and Lithiation in Thin-Film Silicon Electrodes via <i>in Situ</i> Electrochemical Atomic Force Microscopy. ACS Applied Energy Materials, 2019, 2, 6761-6767.	2.5	31
93	Carbonisation temperature dependence of electrochemical activity of nitrogen-doped carbon fibres from electrospinning as air-cathodes for aqueous-alkaline metal-air batteries. RSC Advances, 2019, 9, 27231-27241.	1.7	23
94	High-Temperature Co-Electrolysis: A Versatile Method to Sustainably Produce Tailored Syngas Compositions. Journal of the Electrochemical Society, 2019, 166, F971-F975.	1.3	19
95	Insights into Water Interaction at the Interface of Nitrogen-Functionalized Hydrothermal Carbons. Journal of Physical Chemistry C, 2019, 123, 25146-25156.	1.5	6
96	Sol Gel vs Solid State Synthesis of the Fast Lithium-Ion Conducting Solid State Electrolyte Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Substituted with Åron. Journal of the Electrochemical Society, 2019, 166, A5403-A5409.	1.3	25
97	Insights into a layered hybrid solid electrolyte and its application in long lifespan high-voltage all-solid-state lithium batteries. Journal of Materials Chemistry A, 2019, 7, 3882-3894.	5.2	82
98	Electrode thickness-dependent formation of porous iron electrodes for secondary alkaline iron-air batteries. Electrochimica Acta, 2019, 314, 61-71.	2.6	12
99	Influence of sintering temperature on conductivity and mechanical behavior of the solid electrolyte LATP. Ceramics International, 2019, 45, 14697-14703.	2.3	43
100	Influence of PbO stoichiometry on the properties of PZT ceramics and multilayer actuators. Journal of the American Ceramic Society, 2019, 102, 5401-5414.	1.9	11
101	Degradation mechanisms of C <sub>6</sub> /LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> Li-ion batteries unraveled by non-destructive and post-mortem methods. Journal of Power Sources, 2019, 416, 163-174.	4.0	40
102	The carbonization of polyacrylonitrile-derived electrospun carbon nanofibers studied by <i>in situ</i> transmission electron microscopy. RSC Advances, 2019, 9, 6267-6277.	1.7	35
103	Influence of Al Alloying on the Electrochemical Behavior of Zn Electrodes for Zn-Air Batteries With Neutral Sodium Chloride Electrolyte. Frontiers in Chemistry, 2019, 7, 800.	1.8	21
104	In operando EPR investigation of redox mechanisms in LiCoO <sub>2</sub> . Chemical Physics Letters, 2019, 716, 231-236.	1.2	23
105	Secondary-Phase Formation in Spinel-Type LiMn <sub>2</sub> O <sub>4</sub> -Cathode Materials for Lithium-Ion Batteries: Quantifying Trace Amounts of Li <sub>2</sub> MnO <sub>3</sub> by Electron Paramagnetic Resonance Spectroscopy. Applied Magnetic Resonance, 2018, 49, 415-427.	0.6	14
106	Impact of the charging conditions on the discharge performance of rechargeable iron-anodes for alkaline iron-air batteries. Journal of Applied Electrochemistry, 2018, 48, 451-462.	1.5	14
107	Long-run <i>in operando</i> NMR to investigate the evolution and degradation of battery cells. Physical Chemistry Chemical Physics, 2018, 20, 13765-13776.	1.3	30
108	Investigation of the corrosion behavior of highly As-doped crystalline Si in alkaline Si-air batteries. Electrochimica Acta, 2018, 265, 292-302.	2.6	15

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109	Monitoring local redox processes in LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> battery cathode material by <i>in operando</i> EPR spectroscopy. <i>Journal of Chemical Physics</i> , 2018, 148, 014705.	1.2	23
110	Electrochemical analysis and mixed potentials theory of ionic liquid based Metal-Air batteries with Al/Si alloy anodes. <i>Electrochimica Acta</i> , 2018, 276, 399-411.	2.6	16
111	Modeling the degradation mechanisms of C <sub>6</sub> /LiFePO <sub>4</sub> batteries. <i>Journal of Power Sources</i> , 2018, 375, 106-117.	4.0	30
112	Quantitative and time-resolved detection of lithium plating on graphite anodes in lithium ion batteries. <i>Materials Today</i> , 2018, 21, 231-240.	8.3	163
113	Transformation of carbon-supported Pt-Ni octahedral electrocatalysts into cubes: toward stable electrocatalysis. <i>Nanoscale</i> , 2018, 10, 21353-21362.	2.8	7
114	Thin Film Batteries: Origin of Degradation in Si-Based All-Solid-State Li-Ion Microbatteries (Adv. Energy) Tj ETQq0 0 0 rBT /Overlock 10 T	10.2	1
115	EPR Imaging of Metallic Lithium and its Application to Dendrite Localisation in Battery Separators. <i>Scientific Reports</i> , 2018, 8, 14331.	1.6	39
116	Origin of Degradation in Si-Based All-Solid-State Li-Ion Microbatteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801430.	10.2	29
117	Monitoring the reaction between lithium manganese spinel and Li <sub>2</sub> MnO <sub>3</sub> during heat treatment using Electron Paramagnetic Resonance (EPR) spectroscopy. <i>Solid State Ionics</i> , 2018, 325, 201-208.	1.3	4
118	Self-standing NASICON-type electrodes with high mass loading for fast-cycling all-phosphate sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18304-18317.	5.2	44
119	Analysis of the effects of different carbon coating strategies on structure and electrochemical behavior of LiCoPO <sub>4</sub> material as a high-voltage cathode electrode for lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 279, 108-117.	2.6	19
120	Electrochemical and Electronic Charge Transport Properties of Ni-Doped LiMn <sub>2</sub> O <sub>4</sub> Spinel Obtained from Polyol-Mediated Synthesis. <i>Materials</i> , 2018, 11, 806.	1.3	19
121	Monolithic All-Phosphate Solid-State Lithium-Ion Battery with Improved Interfacial Compatibility. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22264-22277.	4.0	68
122	Temperature-dependent cycling performance and ageing mechanisms of C <sub>6</sub> /LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> batteries. <i>Journal of Power Sources</i> , 2018, 396, 444-452.	4.0	55
123	An Advanced All Phosphate Lithium-Ion Battery Providing High Electrochemical Stability, High Rate Capability and Long-Term Cycling Performance. <i>Journal of the Electrochemical Society</i> , 2017, 164, A370-A379.	1.3	8
124	Power-to-Gas eine Schlüsseltechnologie für die Umstellung des Energiesystems?. <i>Angewandte Chemie</i> , 2017, 129, 5488-5498.	1.6	24
125	Coordination of the Mn <sup>4+</sup> -Center in Layered Li[Co <sub>0.98</sub> Mn <sub>0.02</sub> ]O <sub>2</sub> Cathode Materials for Lithium-Ion Batteries. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 905-922.	1.4	8
126	Morphology Dependency of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C Cathode Material Regarding to Rate Capability and Cycle Life in Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2017, 232, 310-322.	2.6	26



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127	Long run discharge, performance and efficiency of primary Silicon-air cells with alkaline electrolyte. <i>Electrochimica Acta</i> , 2017, 225, 215-224.	2.6	30
128	Carbon-coated core-shell Li <sub>2</sub> S@C nanocomposites as high performance cathode materials for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1428-1433.	5.2	36
129	Observing different modes of mobility in lithium titanate spinel by nuclear magnetic resonance. <i>RSC Advances</i> , 2017, 7, 25276-25284.	1.7	17
130	Understanding the nanoscale redox-behavior of iron-anodes for rechargeable iron-air batteries. <i>Nano Energy</i> , 2017, 41, 706-716.	8.2	39
131	Superionic bulk conductivity in Li <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> solid electrolyte. <i>Solid State Ionics</i> , 2017, 309, 180-186.	1.3	60
132	LSC Infiltrated LSCF Oxygen Electrode for High Temperature Steam Electrolysis. <i>ECS Transactions</i> , 2017, 78, 3283-3295.	0.3	1
133	Co-Electrolysis, Quo Vadis?. <i>ECS Transactions</i> , 2017, 78, 3139-3147.	0.3	8
134	Influence of Dopant Type and Orientation of Silicon Anodes on Performance, Efficiency and Corrosion of Silicon-Air Cells with EMIm(HF) <sub>2.3</sub> F Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2310-A2320.	1.3	18
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