

# Mark H Engelhard

## 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.

495  
papers

40,770  
citations

103  
h-index

186  
g-index

511  
ext. papers

46,582  
ext. citations

8.8  
avg, IF

7.45  
L-index

#	Paper	IF	Citations
495	Sulfone-based electrolytes for high energy density lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 527, 231171	8.9	7
494	A freeze-thaw molten salt battery for seasonal storage. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100821	6.1	0
493	Preface for the special topic collection honoring Dr. Scott Chambers' 70th birthday and his leadership in the science and technology of oxide thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 041602	2.9	
492	Atomic Force Microscopy and Infrared Nanospectroscopy of COVID-19 Spike Protein for the Quantification of Adhesion to Common Surfaces. <i>Langmuir</i> , <b>2021</b> , 37, 12089-12097	4	0
491	Selective Removal of Perfluorobutyric Acid Using an Electroactive Ion Exchanger Based on Polypyrrole@Iron Oxide on Carbon Cloth. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 48500-48507	7.5	2
490	Conversion of ethanol to 1,3-Butadiene over Ag <sub>2</sub> O <sub>2</sub> /SiO <sub>2</sub> catalysts: The role of surface interfaces. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 54, 7-15	12	9
489	Introduction to topical collection: Reproducibility challenges and solutions with a focus on guides to XPS analysis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 021601	2.9	12
488	Electrolyte Regulating toward Stabilization of Cobalt-Free Ultrahigh-Nickel Layered Oxide Cathode in Lithium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 1324-1332	20.1	13
487	Advanced Low-Flammable Electrolytes for Stable Operation of High-Voltage Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 13109-13116	3.6	6
486	Advanced Low-Flammable Electrolytes for Stable Operation of High-Voltage Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12999-13006	16.4	20
485	Stabilizing ultrahigh-nickel layered oxide cathodes for high-voltage lithium metal batteries. <i>Materials Today</i> , <b>2021</b> , 44, 15-24	21.8	22
484	Optimization of Magnesium-Doped Lithium Metal Anode for High Performance Lithium Metal Batteries through Modeling and Experiment. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16642-16649	3.6	4
483	Polyacrylonitrile Composites of Ag <sub>2</sub> SiO <sub>3</sub> Aerogels and Xerogels as Iodine and Iodide Sorbents. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 3344-3353	4.3	2
482	Optimization of Magnesium-Doped Lithium Metal Anode for High Performance Lithium Metal Batteries through Modeling and Experiment. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16506-16513	16.4	10
481	A Polymer-in-Salt Electrolyte with Enhanced Oxidative Stability for Lithium Metal Polymer Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31583-31593	9.5	3
480	Effects of Fluorinated Diluents in Localized High-Concentration Electrolytes for Lithium-Oxygen Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2002927	15.6	24
479	Optimization of fluorinated orthoformate based electrolytes for practical high-voltage lithium metal batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 34, 76-84	19.4	23

478	Understanding the Deactivation of Ag <sub>2</sub> CrO <sub>2</sub> /SiO <sub>2</sub> Catalysts for the Single-step Conversion of Ethanol to Butenes. <i>ChemCatChem</i> , <b>2021</b> , 13, 999-1008	5.2	7
477	An Ion-Imprinting Derived Strategy to Synthesize Single-Atom Iron Electrocatalysts for Oxygen Reduction. <i>Small</i> , <b>2021</b> , 17, e2004454	11	24
476	High performance sodium-sulfur batteries at low temperature enabled by superior molten Na wettability. <i>Chemical Communications</i> , <b>2021</b> , 57, 45-48	5.8	8
475	Rational Design of Electrolytes for Long-Term Cycling of Si Anodes over a Wide Temperature Range. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 387-394	20.1	22
474	Molecular Iodine Interactions with Fe, Ni, Cr, and Stainless Steel Alloys. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 2447-2454	3.9	2
473	Effects of fluorinated solvents on electrolyte solvation structures and electrode/electrolyte interphases for lithium metal batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	39
472	Elucidating the Active Site and the Role of Alkali Metals in Selective Hydrodeoxygenation of Phenols over Iron-Carbide-based Catalyst. <i>ChemSusChem</i> , <b>2021</b> , 14, 4546-4555	8.3	2
471	Toward the Practical Use of Cobalt-Free Lithium-Ion Batteries by an Advanced Ether-Based Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44339-44347	9.5	13
470	Tailoring the Local Environment of Platinum in Single-Atom Pt /CeO Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26054-26062	16.4	15
469	The Influence of Transitional Metal Dopants on Reducing Chlorine Evolution during the Electrolysis of Raw Seawater. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 11911	2.6	0
468	Performance enhancement and degradation mechanism identification of a single-atom Co <sup>II</sup> catalyst for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , <b>2020</b> , 3, 1044-1054	36.5	186
467	Role of inner solvation sheath within salt-solvent complexes in tailoring electrode/electrolyte interphases for lithium metal batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 28603-28613	11.5	76
466	Designing Advanced In Situ Electrode/Electrolyte Interphases for Wide Temperature Operation of 4.5 V Li  LiCoO Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004898	24	42
465	XPS guide: Charge neutralization and binding energy referencing for insulating samples. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 031204	2.9	52
464	Surface engineering of earth-abundant Fe catalysts for selective hydrodeoxygenation of phenolics in liquid phase. <i>Chemical Science</i> , <b>2020</b> , 11, 5874-5880	9.4	10
463	Optimized Electrolyte with High Electrochemical Stability and Oxygen Solubility for Lithium-Oxygen and Lithium-Air Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2182-2190	20.1	24
462	Defect-induced anisotropic surface reactivity and ion transfer processes of anatase nanoparticles. <i>Materials Today Chemistry</i> , <b>2020</b> , 17, 100290	6.2	
461	Dynamic Lattice Oxygen Participation on Perovskite LaNiO <sub>3</sub> during Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15386-15390	3.8	29

460	Sweeping potential regulated structural and chemical evolution of solid-electrolyte interphase on Cu and Li as revealed by cryo-TEM. <i>Nano Energy</i> , <b>2020</b> , 76, 105040	17.1	9
459	Size Dependence of Lattice Parameter and Electronic Structure in CeO Nanoparticles. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 5760-5767	5.1	34
458	A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. <i>Nano Energy</i> , <b>2020</b> , 76, 105041	17.1	14
457	In situ molecular imaging of adsorbed protein films in water indicating hydrophobicity and hydrophilicity. <i>Scientific Reports</i> , <b>2020</b> , 10, 3695	4.9	7
456	Proliferation of Faulty Materials Data Analysis in the Literature. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1-2	0.5	32
455	Controlling Surface Phase Transition and Chemical Reactivity of O3-Layered Metal Oxide Cathodes for High-Performance Na-Ion Batteries. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1718-1725	20.1	38
454	Excellent Cycling Stability of Sodium Anode Enabled by a Stable Solid Electrolyte Interphase Formed in Ether-Based Electrolytes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001151	15.6	27
453	X-ray photoelectron spectroscopy data from lightly Pd doped TiO <sub>2</sub> anatase nanoparticles. <i>Surface Science Spectra</i> , <b>2020</b> , 27, 024011	1.2	2
452	Calcareous organic matter coatings sequester siderophores in alkaline soils. <i>Science of the Total Environment</i> , <b>2020</b> , 724, 138250	10.2	7
451	Preparation of nanoparticles for surface analysis <b>2020</b> , 295-347		3
450	Correlative surface imaging reveals chemical signatures for bacterial hotspots on plant roots. <i>Analyst, The</i> , <b>2020</b> , 145, 393-401	5	10
449	Stabilization of Super Electrophilic Pd <sup>2+</sup> Cations in Small-Pore SSZ-13 Zeolite. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 309-321	3.8	31
448	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 200-206	20.1	17
447	Enabling Natural Graphite in High-Voltage Aqueous Graphite    Zn Metal Dual-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001256	21.8	18
446	Unravelling high-temperature stability of lithium-ion battery with lithium-rich oxide cathode in localized high-concentration electrolyte. <i>Journal of Power Sources Advances</i> , <b>2020</b> , 5, 100024	3.3	13
445	Introductory guide to backgrounds in XPS spectra and their impact on determining peak intensities. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 063203	2.9	24
444	Hole-Trapping-Induced Stabilization of Ni in SrNiO /LaFeO Superlattices. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005003	24	13
443	Controlling Ion Coordination Structure and Diffusion Kinetics for Optimized Electrode-Electrolyte Interphases and High-Performance Si Anodes. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8956-8964	9.6	10

442	Single-Step Conversion of Ethanol to n-Butene over Ag-ZrO <sub>2</sub> /SiO <sub>2</sub> Catalysts. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10602-10613	13.1	14
441	Enabling Ether-Based Electrolytes for Long Cycle Life of Lithium-Ion Batteries at High Charge Voltage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54893-54903	9.5	18
440	A High-Performance NaAl Battery Based on Reversible NaAlCl <sub>4</sub> Catholyte. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001378	21.8	7
439	Reply to: "Pitfalls in identifying active catalyst species". <i>Nature Communications</i> , <b>2020</b> , 11, 4574	17.4	
438	Highly Reversible Sodium Ion Batteries Enabled by Stable Electrolyte-Electrode Interphases. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3212-3220	20.1	40
437	Advanced Electrolytes for Fast-Charging High-Voltage Lithium-Ion Batteries in Wide-Temperature Range. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000368	21.8	81
436	Effect of Cr(III) Adsorption on the Dissolution of Boehmite Nanoparticles in Caustic Solution. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6375-6384	10.3	2
435	Sequential Ammonia and Carbon Dioxide Adsorption on Pyrolyzed Biomass to Recover Waste Stream Nutrients. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7121-7131	8.3	10
434	Cr(III) Adsorption by Cluster Formation on Boehmite Nanoplates in Highly Alkaline Solution. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 11043-11055	10.3	27
433	Monolithic solid-electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. <i>Nature Energy</i> , <b>2019</b> , 4, 796-805	62.3	325
432	Nonflammable Electrolytes for Lithium Ion Batteries Enabled by Ultraconformal Passivation Interphases. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2529-2534	20.1	61
431	Electrically Switched Ion Exchange Based on Carbon-Polypyrrole Composite Smart Materials for the Removal of ReO from Aqueous Solutions. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2612-2617	10.3	15
430	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900567	24	163
429	Constructing Robust Electrode/Electrolyte Interphases to Enable Wide Temperature Applications of Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21496-21505	9.5	21
428	Tuning Pt-CeO interactions by high-temperature vapor-phase synthesis for improved reducibility of lattice oxygen. <i>Nature Communications</i> , <b>2019</b> , 10, 1358	17.4	156
427	High-Concentration Ether Electrolytes for Stable High-Voltage Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 896-902	20.1	160
426	Practical Guides for X-Ray Photoelectron Spectroscopy (XPS): First Steps in planning, conducting and reporting XPS measurements. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37,	2.9	80
425	Highly Stable Oxygen Electrodes Enabled by Catalyst Redistribution through an In Situ Electrochemical Method. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803598	21.8	5

424	Applications of XPS in the characterization of Battery materials. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2019</b> , 231, 2-10	1.7	49
423	Electrocatalytic Hydrogen Evolution in Neutral pH Solutions: Dual-Phase Synergy. <i>ACS Catalysis</i> , <b>2019</b> , 9, 8712-8718	13.1	64
422	Edge Dislocations Induce Improved Photocatalytic Efficiency of Colored TiO <sub>2</sub> . <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901121	4.6	18
421	Role of Inorganic Surface Layer on Solid Electrolyte Interphase Evolution at Li-Metal Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31467-31476	9.5	47
420	High-Performance Silicon Anodes Enabled By Nonflammable Localized High-Concentration Electrolytes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900784	21.8	92
419	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. <i>Joule</i> , <b>2019</b> , 3, 1662-1676	27.8	272
418	Polymer-in-Quasi-Ionic Liquid Electrolytes for High-Voltage Lithium Metal Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902108	21.8	39
417	Origin of lithium whisker formation and growth under stress. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 1042-1048	18.7	141
416	Structure Sensitivity of Acetylene Semi-Hydrogenation on Pt Single Atoms and Subnanometer Clusters. <i>ACS Catalysis</i> , <b>2019</b> , 9, 11030-11041	13.1	50
415	Steam reforming of simulated bio-oil on K-Ni-Cu-Mg-Ce-O/Al <sub>2</sub> O <sub>3</sub> : The effect of K. <i>Catalysis Today</i> , <b>2019</b> , 323, 183-190	5.3	13
414	A comparative study of pomegranate Sb@C yolk-shell microspheres as Li and Na-ion battery anodes. <i>Nanoscale</i> , <b>2018</b> , 11, 348-355	7.7	26
413	Surface speciation and interactions between adsorbed chloride and water on cerium dioxide. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 262, 16-25	3.3	5
412	Addressing Passivation in Lithium Sulfur Battery Under Lean Electrolyte Condition. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707234	15.6	111
411	Stability of polymeric separators in lithium metal batteries in a low voltage environment. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5006-5015	13	20
410	Core-shell PdPb@Pd aerogels with multiply-twinned intermetallic nanostructures: facile synthesis with accelerated gelation kinetics and their enhanced electrocatalytic properties. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7517-7521	13	36
409	Synthesis of nanometer-sized fayalite and magnesium-iron(II) mixture olivines. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 515, 129-138	9.3	14
408	Dendrite-Free and Performance-Enhanced Lithium Metal Batteries through Optimizing Solvent Compositions and Adding Combinational Additives. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703022	21.8	95
407	Porous Carbon-Hosted Atomically Dispersed Iron-Nitrogen Moiety as Enhanced Electrocatalysts for Oxygen Reduction Reaction in a Wide Range of pH. <i>Small</i> , <b>2018</b> , 14, e1703118	11	89

406	Nitrogen-Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706758	24	590
405	Effects of Imide-Orthoborate Dual-Salt Mixtures in Organic Carbonate Electrolytes on the Stability of Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 2469-2479	9.5	75
404	Enhanced Cyclability of Lithium-Oxygen Batteries with Electrodes Protected by Surface Films Induced via In Situ Electrochemical Process. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702340	21.8	33
403	The effect of ion irradiation on the dissolution of UO <sub>2</sub> and UO <sub>2</sub> -based simulant fuel. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 1350-1356	5.7	10
402	Enhanced Stability of Lithium Metal Anode by using a 3D Porous Nickel Substrate. <i>ChemElectroChem</i> , <b>2018</b> , 5, 761-769	4.3	41
401	Extremely Stable Sodium Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 315-321	20.1	241
400	Simultaneous Stabilization of LiNi Mn Co O Cathode and Lithium Metal Anode by Lithium Bis(oxalato)borate as Additive. <i>ChemSusChem</i> , <b>2018</b> , 11, 2211-2220	8.3	62
399	High Voltage Operation of Ni-Rich NMC Cathodes Enabled by Stable Electrode/Electrolyte Interphases. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800297	21.8	201
398	Ultrathin dendritic IrTe nanotubes for an efficient oxygen evolution reaction in a wide pH range. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8855-8859	13	37
397	High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706102	24	452
396	A perspective on two chemometrics tools: PCA and MCR, and introduction of a new one: Pattern recognition entropy (PRE), as applied to XPS and ToF-SIMS depth profiles of organic and inorganic materials. <i>Applied Surface Science</i> , <b>2018</b> , 433, 994-1017	6.7	25
395	A Localized High-Concentration Electrolyte with Optimized Solvents and Lithium Difluoro(oxalato)borate Additive for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2059-2067	20.1	164
394	Nanovoid Incorporated IrxCu Metallic Aerogels for Oxygen Evolution Reaction Catalysis. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2038-2044	20.1	94
393	Electronic response of aluminum-bearing minerals. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 024502	3.9	9
392	Ultrafine Pd ensembles anchored-Au <sub>2</sub> Cu aerogels boost ethanol electrooxidation. <i>Nano Energy</i> , <b>2018</b> , 53, 206-212	17.1	39
391	Spectroscopic Characterization of Aqua [ fac-Tc(CO) ] Complexes at High Ionic Strength. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 6903-6912	5.1	7
390	Controlled synthesis of highly-branched plasmonic gold nanoparticles through peptoid engineering. <i>Nature Communications</i> , <b>2018</b> , 9, 2327	17.4	47
389	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. <i>CheM</i> , <b>2018</b> , 4, 1877-1892	16.2	348

388	Ultrafine and highly disordered Ni <sub>2</sub> Fe <sub>1</sub> nanofoams enabled highly efficient oxygen evolution reaction in alkaline electrolyte. <i>Nano Energy</i> , <b>2018</b> , 44, 319-326	17.1	85
387	Behavior of Lithium Metal Anodes under Various Capacity Utilization and High Current Density in Lithium Metal Batteries. <i>Joule</i> , <b>2018</b> , 2, 110-124	27.8	194
386	Guided Lithium Metal Deposition and Improved Lithium Coulombic Efficiency through Synergistic Effects of LiAsF <sub>6</sub> and Cyclic Carbonate Additives. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 14-19	20.1	120
385	Freestanding NiFe Oxyfluoride Holey Film with Ultrahigh Volumetric Capacitance for Flexible Asymmetric Supercapacitors. <i>Small</i> , <b>2018</b> , 14, 1702295	11	28
384	Detrimental Effects of Chemical Crossover from the Lithium Anode to Cathode in Rechargeable Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2921-2930	20.1	51
383	Cr(VI) Effect on Tc-99 Removal from Hanford Low-Activity Waste Simulant by Ferrous Hydroxide. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 11752-11759	10.3	8
382	Decorating $\gamma$ -alumina solid-state electrolytes with micron Pb spherical particles for improving Na wettability at lower temperatures. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19703-19711	13	26
381	The Effect of Solvent on the Capacity Retention in a Germanium Anode for Lithium Ion Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2018</b> , 15,	2	4
380	High-Efficiency Lithium Metal Batteries with Fire-Retardant Electrolytes. <i>Joule</i> , <b>2018</b> , 2, 1548-1558	27.8	257
379	Structural identification of Zn <sub>x</sub> Zr <sub>y</sub> O <sub>z</sub> catalysts for Cascade aldolization and self-deoxygenation reactions. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 337-346	21.8	33
378	Lithium-Metal Batteries: High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes (Adv. Mater. 21/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870144	24	2
377	Self-organizing layers from complex molecular anions. <i>Nature Communications</i> , <b>2018</b> , 9, 1889	17.4	27
376	Lithium-Pretreated Hard Carbon as High-Performance Sodium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801441	21.8	69
375	Stable cycling of high-voltage lithium metal batteries in ether electrolytes. <i>Nature Energy</i> , <b>2018</b> , 3, 739-746	26.3	466
374	B <sub>4</sub> C as a stable non-carbon-based oxygen electrode material for lithium-oxygen batteries. <i>Nano Energy</i> , <b>2017</b> , 33, 195-204	17.1	55
373	Probing the Origin of Interfacial Carriers in SrTiO <sub>3</sub> /LaCrO <sub>3</sub> Superlattices. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1147-1155	9.6	17
372	One-Pot Process for Hydrodeoxygenation of Lignin to Alkanes Using Ru-Based Bimetallic and Bifunctional Catalysts Supported on Zeolite Y. <i>ChemSusChem</i> , <b>2017</b> , 10, 1846-1856	8.3	88
371	Three-dimensional Nitrogen-Doped Reduced Graphene Oxide/Carbon Nanotube Composite Catalysts for Vanadium Flow Batteries. <i>Electroanalysis</i> , <b>2017</b> , 29, 1469-1473	3	23

370	Revisiting the Corrosion of the Aluminum Current Collector in Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1072-1077	6.4	98
369	Stabilization of Li Metal Anode in DMSO-Based Electrolytes via Optimization of Salt/Solvent Coordination for Li <sub>2</sub> O Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602605	21.8	78
368	Electrolyte additive enabled fast charging and stable cycling lithium metal batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	769
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365	Complete Decomposition of LiCO in Li-O Batteries Using Ir/BC as Noncarbon-Based Oxygen Electrode. <i>Nano Letters</i> , <b>2017</b> , 17, 1417-1424	11.5	79
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363	Tuning the Solid Electrolyte Interphase for Selective Li- and Na-Ion Storage in Hard Carbon. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606860	24	119
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351	Block copolymer templated synthesis of PtIr bimetallic nanocatalysts for the formic acid oxidation reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21514-21527	13	24
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95	Magnetic gas sensing using a dilute magnetic semiconductor. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 112509	3.4	57
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