Tian-Shou Zhao

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.

458 papers	24,695 citations	85 h-index	127 g-index
477 ext. papers	28,282 ext. citations	8.3 avg, IF	7.69 L-index

#	Paper	IF	Citations
458	Microscale-decoupled charge-discharge reaction sites for an air electrode with abundant triple-phase boundary and enhanced cycle stability of Zn-Air batteries. *Journal of Power Sources*, **2022**, 525, 231108	8.9	0
457	A detachable sandwiched polybenzimidazole-based membrane for high-performance aqueous redox flow batteries. *Journal of Power Sources*, **2022**, 526, 231139	8.9	3
456	A transient model for charge and mass transfer through anion exchange membranes in vanadium redox flow batteries. *International Journal of Heat and Mass Transfer*, **2022**, 186, 122509	4.9	1
455	IrOX Supported onto Niobium-Doped Titanium Dioxide as an Anode Reversal Tolerant Electrocatalyst for Proton Exchange Membrane Fuel Cells. *ACS Applied Energy Materials*, **2022**, 5, 3259-3268	6.1	1
454	Operation of liquid e-fuel cells using air as oxidant. *Applied Energy*, **2022**, 311, 118677	10.7	2
453	A Janus-faced, perovskite nanofiber framework reinforced composite electrolyte for high-voltage solid lithium-metal batteries. *Journal of Power Sources*, **2022**, 526, 231172	8.9	0
452	Artificial Bipolar Redox-Active Molecule for Symmetric Nonaqueous Redox Flow Batteries. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 613-621	8.3	1
451	An electrochemical-thermal coupled model for aqueous redox flow batteries. *International Journal of Heat and Mass Transfer*, **2022**, 192, 122926	4.9	0
450	A High-Capacity Polyethylene Oxide-Based All-Solid-State Battery Using a Metal–Organic Framework Hosted Silicon Anode. *ACS Applied Materials & Interfaces*, **2022**, 14, 24798-24805	9.5	1
449	In-situ forming lithiophilic-lithiophobic gradient interphases for dendrite-free all-solid-state Li metal batteries. *Nano Energy*, **2022**, 99, 107395	17.1	1
448	A Passive Fuel Cell Fed with an Electrically Rechargeable Liquid Fuel. *ACS Applied Materials & Interfaces*, **2021**, 13, 48795-48800	9.5	3
447	Modeling of Vanadium Redox Flow Battery and Electrode Optimization with Different Flow Fields. *E-Prime*, **2021**, 100001		2
446	A Highly Reversible Zinc Anode for Rechargeable Aqueous Batteries. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3
445	A highly-efficient composite polybenzimidazole membrane for vanadium redox flow battery. *Journal of Power Sources*, **2021**, 489, 229502	8.9	12
444	Carboxyl-Functionalized TEMPO Catholyte Enabling High-Cycling-Stability and High-Energy-Density Aqueous Organic Redox Flow Batteries. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6258-6265	8.3	8
443	Advances in the design and fabrication of high-performance flow battery electrodes for renewable energy storage. *Advances in Applied Energy*, **2021**, 2, 100016		5
442	Chloride ions as an electrolyte additive for high performance vanadium redox flow batteries. *Applied Energy*, **2021**, 289, 116690	10.7	7

441	A transient model for vanadium redox flow batteries with bipolar membranes. *Journal of Power Sources*, **2021**, 496, 229829	8.9	2
440	A High-Capacity, Long-Cycling All-Solid-State Lithium Battery Enabled by Integrated Cathode/Ultrathin Solid Electrolyte. *Advanced Energy Materials*, **2021**, 11, 2101612	21.8	13
439	A high-energy and long-cycling lithium-sulfur pouch cell via a macroporous catalytic cathode with double-end binding sites. *Nature Nanotechnology*, **2021**, 16, 166-173	28.7	153
438	A trifunctional electrolyte for high-performance zinc-iodine flow batteries. *Journal of Power Sources*, **2021**, 484, 229238	8.9	11
437	Diphenyl ditelluride as a low-potential and fast-kinetics anolyte for nonaqueous redox flow battery applications. *Energy Storage Materials*, **2021**, 35, 761-771	19.4	3
436	Holey aligned electrodes through in-situ ZIF-8-assisted-etching for high-performance aqueous redox flow batteries. *Science Bulletin*, **2021**, 66, 904-913	10.6	11
435	Metal–organic framework-derived carbon as a positive electrode for high-performance vanadium redox flow batteries. *Journal of Materials Chemistry A*, **2021**, 9, 5648-5656	13	8
434	A composite solid electrolyte with an asymmetric ceramic framework for dendrite-free all-solid-state Li metal batteries. *Journal of Materials Chemistry A*, **2021**, 9, 9665-9674	13	6
433	A computational model of a liquid e-fuel cell. *Journal of Power Sources*, **2021**, 501, 230023	8.9	4
432	Polymer Electrolyte Membranes for Vanadium Redox Flow Batteries: Fundamentals and Applications. *Progress in Energy and Combustion Science*, **2021**, 85, 100926	33.6	18
431	Analyses and insights into 2D crystallite architected membrane electrode assemblies for polymer electrolyte fuel cells. *Chemical Engineering Journal*, **2021**, 417, 129280	14.7	3
430	2D Ti C T MXenes: Visible Black but Infrared White Materials. *Advanced Materials*, **2021**, 33, e2103054	24	16
429	Performance characteristics of a liquid e-fuel cell. *Applied Energy*, **2021**, 297, 117145	10.7	4
428	Single-atom catalyst for high-performance methanol oxidation. *Nature Communications*, **2021**, 12, 5235	17.4	16
427	A coupled machine learning and genetic algorithm approach to the design of porous electrodes for redox flow batteries. *Applied Energy*, **2021**, 298, 117177	10.7	5
426	A liquid e-fuel cell operating at 20 °C. *Journal of Power Sources*, **2021**, 506, 230198	8.9	3
425	A high-performance lithiated silicon–sulfur battery with pomegranate-structured electrodes. *Journal of Power Sources*, **2021**, 506, 230174	8.9	4
424	An organic bifunctional redox active material for symmetric aqueous redox flow battery. *Nano Energy*, **2021**, 89, 106422	17.1	5

423	A convection-enhanced flow field for aqueous redox flow batteries. *International Journal of Heat and Mass Transfer*, **2021**, 179, 121747	4.9	0
422	Aligned microfibers interweaved with highly porous carbon nanofibers: A Novel electrode for high-power vanadium redox flow batteries. *Energy Storage Materials*, **2021**, 43, 30-41	19.4	4
421	Efficient electrocatalytic water splitting by bimetallic cobalt iron boride nanoparticles with controlled electronic structure. *Journal of Colloid and Interface Science*, **2021**, 604, 650-659	9.3	5
420	A hierarchical porous tin host for dendrite-free, highly reversible zinc anodes. *Chemical Engineering Journal*, **2021**, 425, 130643	14.7	11
419	Cost-Effective, High-Energy-Density, Nonaqueous Nitrobenzene Organic Redox Flow Battery. *Chemistry of Materials*, **2021**, 33, 978-986	9.6	12
418	Enabling Solid-State Li Metal Batteries by In Situ Forming Ionogel Interlayers. *ACS Applied Energy Materials*, **2020**, 3, 5712-5721	6.1	12
417	Aligned hierarchical electrodes for high-performance aqueous redox flow battery. *Applied Energy*, **2020**, 271, 115235	10.7	14
416	A composite solid electrolyte with a framework of vertically aligned perovskite for all-solid-state Li-metal batteries. *Journal of Membrane Science*, **2020**, 610, 118265	9.6	17
415	A novel electrode formed with electrospun nano- and micro-scale carbon fibers for aqueous redox flow batteries. *Journal of Power Sources*, **2020**, 470, 228441	8.9	9
414	Bifunctional effect of laser-induced nucleation-preferable microchannels and in situ formed LiF SEI in MXenes for stable lithium-metal batteries. *Journal of Materials Chemistry A*, **2020**, 8, 14114-14125	13	17
413	Modeling and Simulation of Flow Batteries. *Advanced Energy Materials*, **2020**, 10, 2000758	21.8	22
412	An in situ encapsulation approach for polysulfide retention in lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2020**, 8, 6902-6907	13	4
411	Beyond the Polysulfide Shuttle and Lithium Dendrite Formation: Addressing the Sluggish Sulfur Redox Kinetics for Practical High-Energy Li-S Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 17634-17640	16.4	30
410	A long-life Li–S battery enabled by a cathode made of well-distributed B4C nanoparticles decorated activated cotton fibers. *Journal of Power Sources*, **2020**, 451, 227751	8.9	12
409	Thermal effects in H2O and CO2 assisted direct carbon solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2020**, 45, 12459-12475	6.7	9
408	Balancing the specific surface area and mass diffusion property of electrospun carbon fibers to enhance the cell performance of vanadium redox flow battery. *International Journal of Hydrogen Energy*, **2020**, 45, 12565-12576	6.7	17
407	Towards uniform distributions of reactants via the aligned electrode design for vanadium redox flow batteries. *Applied Energy*, **2020**, 259, 114198	10.7	26
406	An energy-dense, flowable suspension of hollow carbon nanoshell-hosted sulfur as an electroactive material for flow batteries. *Journal of Power Sources*, **2020**, 478, 228750	8.9	2

405	Enhanced cycle life of vanadium redox flow battery via a capacity and energy efficiency recovery method. *Journal of Power Sources*, **2020**, 478, 228725	8.9	17
404	An aqueous organic redox flow battery employing a trifunctional electroactive compound as anolyte, catholyte and supporting electrolyte. *Journal of Power Sources*, **2020**, 477, 228985	8.9	11
403	Achieving multiplexed functionality in a hierarchical MXene-based sulfur host for high-rate, high-loading lithium-sulfur batteries. *Energy Storage Materials*, **2020**, 33, 147-157	19.4	36
402	On-Site Fluorination for Enhancing Utilization of Lithium in a Lithium-Sulfur Full Battery. *ACS Applied Materials & Interfaces*, **2020**,	9.5	3
401	Tuning the Performance of Aqueous Organic Redox Flow Batteries via First-Principles Calculations. *Journal of Physical Chemistry Letters*, **2020**, 11, 10433-10438	6.4	2
400	An ultrathin, strong, flexible composite solid electrolyte for high-voltage lithium metal batteries. *Journal of Materials Chemistry A*, **2020**, 8, 18802-18809	13	25
399	A dendrite-free zinc anode for rechargeable aqueous batteries. *Journal of Materials Chemistry A*, **2020**, 8, 20175-20184	13	33
398	Asymmetric Porous Polybenzimidazole Membranes with High Conductivity and Selectivity for Vanadium Redox Flow Batteries. *Energy Technology*, **2020**, 8, 2000592	3.5	6
397	Highly catalytic hollow Ti3C2Tx MXene spheres decorated graphite felt electrode for vanadium redox flow batteries. *Energy Storage Materials*, **2020**, 25, 885-892	19.4	41
396	A safe and efficient lithiated silicon-sulfur battery enabled by a bi-functional composite interlayer. *Energy Storage Materials*, **2020**, 25, 217-223	19.4	10
395	A high power density and long cycle life vanadium redox flow battery. *Energy Storage Materials*, **2020**, 24, 529-540	19.4	103
394	A novel energy storage system incorporating electrically rechargeable liquid fuels as the storage medium. *Science Bulletin*, **2019**, 64, 270-280	10.6	47
393	First-principle investigations of nitrogen-, boron-, phosphorus-doped graphite electrodes for vanadium redox flow batteries. *Electrochimica Acta*, **2019**, 300, 389-395	6.7	21
392	Seawater as an alternative to deionized water for electrolyte preparations in vanadium redox flow batteries. *Applied Energy*, **2019**, 251, 113344	10.7	14
391	N-doped graphene nanoplatelets as a highly active catalyst for Br2/Br⁻ redox reactions in zinc-bromine flow batteries. *Electrochimica Acta*, **2019**, 318, 69-75	6.7	17
390	Critical Role of Anion Donicity in LiS Deposition and Sulfur Utilization in Li-S Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 25940-25948	9.5	31
389	Ultra-stable lithium plating/stripping in garnet-based lithium-metal batteries enabled by a SnO2 nanolayer. *Journal of Power Sources*, **2019**, 433, 226691	8.9	24
388	Combined methane reforming by carbon dioxide and steam in proton conducting solid oxide fuel cells for syngas/power co-generation. *International Journal of Hydrogen Energy*, **2019**, 44, 15313-15321	6.7	18

387	An aqueous manganese-copper battery for large-scale energy storage applications. *Journal of Power Sources*, **2019**, 423, 203-210	8.9	27
386	Aqueous proton-selective conduction across two-dimensional graphyne. *Nature Communications*, **2019**, 10, 1165	17.4	36
385	A uniformly distributed bismuth nanoparticle-modified carbon cloth electrode for vanadium redox flow batteries. *Applied Energy*, **2019**, 240, 226-235	10.7	41
384	A two-dimensional model for the design of flow fields in vanadium redox flow batteries. *International Journal of Heat and Mass Transfer*, **2019**, 135, 460-469	4.9	33
383	A two-dimensional mathematical model for vanadium redox flow battery stacks incorporating nonuniform electrolyte distribution in the flow frame. *Applied Thermal Engineering*, **2019**, 151, 495-505	5.8	12
382	Facile Surface Modification Method To Achieve an Ultralow Interfacial Resistance in Garnet-Based Li Metal Batteries. *ACS Applied Energy Materials*, **2019**, 2, 6332-6340	6.1	13
381	Atomically dispersed FeNx active sites within hierarchical mesoporous carbon as efficient electrocatalysts for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2019**, 7, 20132-20138	12	25
380	Aligned Electrospun Carbon Nanofibers as Electrodes for Vanadium Redox Flow Batteries. *Energy Technology*, **2019**, 7, 1900488	3.5	10
379	Rational design of spontaneous reactions for protecting porous lithium electrodes in lithium-sulfur batteries. *Nature Communications*, **2019**, 10, 3249	17.4	62
378	Investigation of an aqueous rechargeable battery consisting of manganese tin redox chemistries for energy storage. *Journal of Power Sources*, **2019**, 437, 226918	8.9	8
377	Superior cycling life of Li-S batteries with high sulfur loading enabled by a bifunctional layered-MoO3 cathode. *Journal of Power Sources*, **2019**, 436, 226840	8.9	18
376	Artificial Bifunctional Protective layer Composed of Carbon Nitride Nanosheets for High Performance Lithium-Sulfur Batteries. *Journal of Energy Storage*, **2019**, 26, 101006	7.8	12
375	A gradient porous electrode with balanced transport properties and active surface areas for vanadium redox flow batteries. *Journal of Power Sources*, **2019**, 440, 227159	8.9	27
374	Mesoporous carbon derived from pomelo peel as a high-performance electrode material for zinc-bromine flow batteries. *Journal of Power Sources*, **2019**, 442, 227255	8.9	24
373	Designing Effective Solvent-Catalyst Interface for Catalytic Sulfur Conversion in Lithium-Sulfur Batteries. *Chemistry of Materials*, **2019**, 31, 10186-10196	9.6	27
372	Polyoxyethylene (PEO)|PEO-Perovskite|PEO Composite Electrolyte for All-Solid-State Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 46930-46937	9.5	53
371	A bi-porous graphite felt electrode with enhanced surface area and catalytic activity for vanadium redox flow batteries. *Applied Energy*, **2019**, 233-234, 105-113	10.7	22
370	V2O5-NiO composite nanowires: A novel and highly efficient carbon-free electrode for non-aqueous Li-air batteries operated in ambient air. *Journal of Power Sources*, **2019**, 409, 76-85	8.9	28

369	Mathematical modeling of the charging process of Li-S batteries by incorporating the size-dependent Li2S dissolution. *Electrochimica Acta*, **2019**, 296, 954-963	6.7	19
368	A room-temperature activated graphite felt as the cost-effective, highly active and stable electrode for vanadium redox flow batteries. *Applied Energy*, **2019**, 233-234, 544-553	10.7	40
367	Anion exchange membranes for aqueous acid-based redox flow batteries: Current status and challenges. *Applied Energy*, **2019**, 233-234, 622-643	10.7	60
366	An improved model of ion selective adsorption in membrane and its application in vanadium redox flow batteries. *Applied Energy*, **2018**, 215, 591-601	10.7	18
365	An aqueous alkaline battery consisting of inexpensive all-iron redox chemistries for large-scale energy storage. *Applied Energy*, **2018**, 215, 98-105	10.7	26
364	Towards a uniform distribution of zinc in the negative electrode for zinc bromine flow batteries. *Applied Energy*, **2018**, 213, 366-374	10.7	56
363	Advances and challenges in alkaline anion exchange membrane fuel cells. *Progress in Energy and Combustion Science*, **2018**, 66, 141-175	33.6	281
362	Mn3O4 Nanoparticle-Decorated Carbon Cloths with Superior Catalytic Activity for the VII/VIII Redox Reaction in Vanadium Redox Flow Batteries. *Energy Technology*, **2018**, 6, 1228-1236	3.5	13
361	Borophene and defective borophene as potential anchoring materials for lithium–sulfur batteries: a first-principles study. *Journal of Materials Chemistry A*, **2018**, 6, 2107-2114	13	87
360	Revealing the Performance Enhancement of Oxygenated Carbonaceous Materials for Vanadium Redox Flow Batteries: Functional Groups or Specific Surface Area?. *Advanced Sustainable Systems*, **2018**, 2, 1700148	5.9	18
359	Role of phosphorus in nitrogen, phosphorus dual-doped ordered mesoporous carbon electrocatalyst for oxygen reduction reaction in alkaline media. *International Journal of Hydrogen Energy*, **2018**, 43, 1470-1478	6.7	39
358	NiCo2O4 nanowires@MnOx nanoflakes supported on stainless steel mesh with superior electrocatalytic performance for anion exchange membrane water splitting. *Electrochemistry Communications*, **2018**, 87, 66-70	5.1	21
357	Mesoporous ultrafine Ta2O5 nanoparticle with abundant oxygen vacancies as a novel and efficient catalyst for non-aqueous Li-O2 batteries. *Electrochimica Acta*, **2018**, 271, 232-241	6.7	15
356	Improved electrolyte for zinc-bromine flow batteries. *Journal of Power Sources*, **2018**, 384, 232-239	8.9	63
355	Paramecium-Like Iron Oxide Nanotubes as a Cost-Efficient Catalyst for Nonaqueous Lithium-Oxygen Batteries. *Energy Technology*, **2018**, 6, 263-272	3.5	9
354	Lattice Boltzmann simulation of shear viscosity of suspensions containing porous particles. *International Journal of Heat and Mass Transfer*, **2018**, 116, 969-976	4.9	14
353	A Paper-Based Microfluidic Fuel Cell with Hydrogen Peroxide as Fuel and Oxidant. *Energy Technology*, **2018**, 6, 140-143	3.5	40
352	A Zinc–Bromine Flow Battery with Improved Design of Cell Structure and Electrodes. *Energy Technology*, **2018**, 6, 333-339	3.5	29

351	Carbonized tubular polypyrrole with a high activity for the Br2/Br⁻ redox reaction in zinc-bromine flow batteries. *Electrochimica Acta*, **2018**, 284, 569-576	6.7	34
350	CoP nanoparticles enwrapped in N-doped carbon nanotubes for high performance lithium-ion battery anodes. *Frontiers of Materials Science*, **2018**, 12, 214-224	2.5	6
349	Carbon Wrapped Monodispersed FeP Nanoparticles for Lithium Storage with long Cycle Life. *Energy Technology*, **2018**, 6, 2312-2318	3.5	4
348	Three-Dimensional Carbon-Honeycomb as Nanoporous Lithium and Sodium Deposition Scaffold. *Journal of Physical Chemistry C*, **2018**, 122, 21262-21268	3.8	10
347	Highly efficient and ultra-stable boron-doped graphite felt electrodes for vanadium redox flow batteries. *Journal of Materials Chemistry A*, **2018**, 6, 13244-13253	13	60
346	Remedies of capacity fading in room-temperature sodium-sulfur batteries. *Journal of Power Sources*, **2018**, 396, 304-313	8.9	31
345	Lattice Boltzmann Simulation of Mass Transfer Coefficients for Chemically Reactive Flows in Porous Media. *Journal of Heat Transfer*, **2018**, 140,	1.8	29
344	Dual function flower-like CoP/C nanosheets: High stability lithium-ion anode and excellent hydrogen evolution reaction catalyst. *Electrochimica Acta*, **2018**, 259, 822-829	6.7	44
343	The synthesis of ZnS@MoS2 hollow polyhedrons for enhanced lithium storage performance. *CrystEngComm*, **2018**, 20, 7266-7274	3.3	24
342	Heterostructure CoS/NC@MoS2 Hollow Spheres for High-Performance Hydrogen Evolution Reactions and Lithium-ION Batteries. *ChemElectroChem*, **2018**, 5, 3953-3960	4.3	25
341	A Li2S-Based Sacrificial Layer for Stable Operation of Lithium-Sulfur Batteries. *Energy Technology*, **2018**, 6, 2210-2219	3.5	4
340	A highly selective proton exchange membrane with highly ordered, vertically aligned, and subnanosized 1D channels for redox flow batteries. *Journal of Power Sources*, **2018**, 406, 35-41	8.9	14
339	Formation of electrodes by self-assembling porous carbon fibers into bundles for vanadium redox flow batteries. *Journal of Power Sources*, **2018**, 405, 106-113	8.9	28
338	Thermal effects on the sedimentation behavior of elliptical particles. *International Journal of Heat and Mass Transfer*, **2018**, 126, 753-764	4.9	29
337	In-situ investigation of hydrogen evolution behavior in vanadium redox flow batteries. *Applied Energy*, **2017**, 190, 1112-1118	10.7	72
336	Enhancement of Electrochemical Performance by the Oxygen Vacancies in Hematite as Anode Material for Lithium-Ion Batteries. *Nanoscale Research Letters*, **2017**, 12, 13	5	27
335	Recent advances in inorganic 2D materials and their applications in lithium and sodium batteries. *Journal of Materials Chemistry A*, **2017**, 5, 3735-3758	13	259
334	A novel iron-lead redox flow battery for large-scale energy storage. *Journal of Power Sources*, **2017**, 346, 97-102	8.9	19

333	A stabilized high-energy Li-polyiodide semi-liquid battery with a dually-protected Li anode. *Journal of Power Sources*, **2017**, 347, 136-144	8.9	11
332	Accelerated lattice Boltzmann simulation using GPU and OpenACC with data management. *International Journal of Heat and Mass Transfer*, **2017**, 109, 577-588	4.9	84
331	Ab initio prediction and characterization of phosphorene-like SiS and SiSe as anode materials for sodium-ion batteries. *Science Bulletin*, **2017**, 62, 572-578	10.6	46
330	High-performance zinc bromine flow battery via improved design of electrolyte and electrode. *Journal of Power Sources*, **2017**, 355, 62-68	8.9	71
329	High-performance nitrogen-doped titania nanowire decorated carbon cloth electrode for lithium-polysulfide batteries. *Electrochimica Acta*, **2017**, 242, 137-145	6.7	20
328	Critical transport issues for improving the performance of aqueous redox flow batteries. *Journal of Power Sources*, **2017**, 339, 1-12	8.9	123
327	A hydrogen-ferric ion rebalance cell operating at low hydrogen concentrations for capacity restoration of iron-chromium redox flow batteries. *Journal of Power Sources*, **2017**, 352, 77-82	8.9	26
326	A Lithium/Polysulfide Battery with Dual-Working Mode Enabled by Liquid Fuel and Acrylate-Based Gel Polymer Electrolyte. *ACS Applied Materials & Interfaces*, **2017**, 9, 2526-2534	9.5	22
325	First-Principles Investigations of the Working Mechanism of 2D h-BN as an Interfacial Layer for the Anode of Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 1987-1994	9.5	69
324	Transport phenomena in alkaline direct ethanol fuel cells for sustainable energy production. *Journal of Power Sources*, **2017**, 341, 199-211	8.9	77
323	Modeling of an aprotic Li-O2 battery incorporating multiple-step reactions. *Applied Energy*, **2017**, 187, 706-716	10.7	15
322	An aprotic lithium/polyiodide semi-liquid battery with an ionic shield. *Journal of Power Sources*, **2017**, 342, 9-16	8.9	13
321	Highly catalytic and stabilized titanium nitride nanowire array-decorated graphite felt electrodes for all vanadium redox flow batteries. *Journal of Power Sources*, **2017**, 341, 318-326	8.9	101
320	Impact of pore size of ordered mesoporous carbon FDU-15-supported platinum catalysts on oxygen reduction reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 3325-3334	6.7	21
319	Ruthenium dioxide-decorated carbonized tubular polypyrrole as a bifunctional catalyst for non-aqueous lithium-oxygen batteries. *Electrochimica Acta*, **2017**, 257, 281-289	6.7	16
318	Highly active, bi-functional and metal-free B 4 C-nanoparticle-modified graphite felt electrodes for vanadium redox flow batteries. *Journal of Power Sources*, **2017**, 365, 34-42	8.9	57
317	Theoretical Understanding of Mechanisms of Proton Exchange Membranes Made of 2D Crystals with Ultrahigh Selectivity. *Journal of Physical Chemistry Letters*, **2017**, 8, 4354-4361	6.4	33
316	Fluid breakup in carbon nanotubes: An explanation of ultrafast ion transport. *Physics of Fluids*, **2017** , 29, 092003	4.4	14

315	A highly active biomass-derived electrode for all vanadium redox flow batteries. *Electrochimica Acta*, **2017**, 248, 197-205	6.7	35
314	An efficient Li2S-based lithium-ion sulfur battery realized by a bifunctional electrolyte additive. *Nano Energy*, **2017**, 40, 240-247	17.1	65
313	Advances and challenges in lithium-air batteries. *Applied Energy*, **2017**, 204, 780-806	10.7	128
312	A self-cleaning Li-S battery enabled by a bifunctional redox mediator. *Journal of Power Sources*, **2017**, 361, 203-210	8.9	40
311	Boron phosphide monolayer as a potential anode material for alkali metal-based batteries. *Journal of Materials Chemistry A*, **2017**, 5, 672-679	13	144
310	Lattice Boltzmann modeling of transport phenomena in fuel cells and flow batteries. *Acta Mechanica Sinica/Lixue Xuebao*, **2017**, 33, 555-574	2	117
309	Transport of highly concentrated fuel in direct methanol fuel cells. *Applied Thermal Engineering*, **2017**, 126, 290-295	5.8	28
308	A highly permeable and enhanced surface area carbon-cloth electrode for vanadium redox flow batteries. *Journal of Power Sources*, **2016**, 329, 247-254	8.9	83
307	Performance enhancement of iron-chromium redox flow batteries by employing interdigitated flow fields. *Journal of Power Sources*, **2016**, 327, 258-264	8.9	65
306	A highly-safe lithium-ion sulfur polymer battery with SnO2 anode and acrylate-based gel polymer electrolyte. *Nano Energy*, **2016**, 28, 97-105	17.1	51
305	Unraveling the Catalytic Mechanism of Rutile RuO2 for the Oxygen Reduction Reaction and Oxygen Evolution Reaction in Li-O2 Batteries. *ACS Catalysis*, **2016**, 6, 6285-6293	13.1	43
304	Three-dimensional lattice Boltzmann simulation of suspensions containing both micro- and nanoparticles. *International Journal of Heat and Fluid Flow*, **2016**, 62, 560-567	2.4	17
303	Facile preparation of high-performance MnO2/KB air cathode for Zn-air batteries. *Electrochimica Acta*, **2016**, 222, 1438-1444	6.7	24
302	The effects of design parameters on the charge-discharge performance of iron-chromium redox flow batteries. *Applied Energy*, **2016**, 182, 204-209	10.7	52
301	Computational insights into the effect of carbon structures at the atomic level for non-aqueous sodium-oxygen batteries. *Journal of Power Sources*, **2016**, 325, 91-97	8.9	20
300	Vertically aligned carbon nanotube-ruthenium dioxide core-shell cathode for non-aqueous lithium-oxygen batteries. *Journal of Power Sources*, **2016**, 331, 82-90	8.9	37
299	Effects of moist air on the cycling performance of non-aqueous lithium-air batteries. *Applied Energy* , **2016**, 182, 569-575	10.7	29
298	A passive anion-exchange membrane direct ethanol fuel cell stack and its applications. *International Journal of Hydrogen Energy*, **2016**, 41, 20336-20342	6.7	46

297	Modeling of ion transport through a porous separator in vanadium redox flow batteries. *Journal of Power Sources*, **2016**, 327, 67-76	8.9	56
296	Modeling of lithium-sulfur batteries incorporating the effect of Li2S precipitation. *Journal of Power Sources*, **2016**, 336, 115-125	8.9	65
295	A high-performance flow-field structured iron-chromium redox flow battery. *Journal of Power Sources*, **2016**, 324, 738-744	8.9	104
294	Ab initio prediction of borophene as an extraordinary anode material exhibiting ultrafast directional sodium diffusion for sodium-based batteries. *Science Bulletin*, **2016**, 61, 1138-1144	10.6	85
293	A high-performance solid-state lithium-oxygen battery with a ceramic-carbon nanostructured electrode. *Nano Energy*, **2016**, 26, 565-576	17.1	47
292	A high-performance dual-scale porous electrode for vanadium redox flow batteries. *Journal of Power Sources*, **2016**, 325, 329-336	8.9	122
291	Borophene: A promising anode material offering high specific capacity and high rate capability for lithium-ion batteries. *Nano Energy*, **2016**, 23, 97-104	17.1	340
290	RuO2Monolayer: A Promising Bifunctional Catalytic Material for Nonaqueous Lithium–Oxygen Batteries. *Journal of Physical Chemistry C*, **2016**, 120, 6356-6362	3.8	31
289	A direct methanol–hydrogen peroxide fuel cell with a Prussian Blue cathode. *International Journal of Hydrogen Energy*, **2016**, 41, 5135-5140	6.7	29
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287	A monolayer graphene–Nafion sandwich membrane for direct methanol fuel cells. *Journal of Power Sources*, **2016**, 311, 188-194	8.9	103
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