

# Guozhong Cao

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/736306/guozhong-cao-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

518  
papers

35,194  
citations

96  
h-index

164  
g-index

543  
ext. papers

39,722  
ext. citations

10.3  
avg, IF

7.89  
L-index

#	Paper	IF	Citations
518	ZnO Nanostructures for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , <b>2009</b> , 21, 4087-4108	24	1482
517	Nanomaterials for energy conversion and storage. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 3127-71	58.5	1188
516	Developments in Nanostructured Cathode Materials for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2008</b> , 20, 2251-2269	24	961
515	Nanostructured carbon for energy storage and conversion. <i>Nano Energy</i> , <b>2012</b> , 1, 195-220	17.1	797
514	Nanostructures and Nanomaterials <b>2004</b> ,		656
513	Aggregation of ZnO nanocrystallites for high conversion efficiency in dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2402-6	16.4	576
512	Understanding electrochemical potentials of cathode materials in rechargeable batteries. <i>Materials Today</i> , <b>2016</b> , 19, 109-123	21.8	573
511	Nanostructured photoelectrodes for dye-sensitized solar cells. <i>Nano Today</i> , <b>2011</b> , 6, 91-109	17.9	561
510	A self-charging power unit by integration of a textile triboelectric nanogenerator and a flexible lithium-ion battery for wearable electronics. <i>Advanced Materials</i> , <b>2015</b> , 27, 2472-8	24	530
509	Hydrogenated Li(4)Ti(5)O(12) nanowire arrays for high rate lithium ion batteries. <i>Advanced Materials</i> , <b>2012</b> , 24, 6502-6	24	411
508	Synthesis and Enhanced Intercalation Properties of Nanostructured Vanadium Oxides. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 2787-2804	9.6	400
507	Active Materials for Aqueous Zinc Ion Batteries: Synthesis, Crystal Structure, Morphology, and Electrochemistry. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7795-7866	68.1	347
506	Oriented nanostructures for energy conversion and storage. <i>ChemSusChem</i> , <b>2008</b> , 1, 676-97	8.3	333
505	Template-based synthesis of nanorod, nanowire, and nanotube arrays. <i>Advances in Colloid and Interface Science</i> , <b>2008</b> , 136, 45-64	14.3	308
504	Li4Ti5O12 Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 691-698	21.8	297
503	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9193		293
502	Expanded hydrated vanadate for high-performance aqueous zinc-ion batteries. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2273-2285	35.4	277

501	MoSe <sub>2</sub> nanosheets perpendicularly grown on graphene with Mo–S bonding for sodium-ion capacitors. <i>Nano Energy</i> , <b>2018</b> , 47, 224-234	17.1	270
500	Effects of the Morphology of a ZnO Buffer Layer on the Photovoltaic Performance of Inverted Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2194-2201	15.6	259
499	Polydisperse Aggregates of ZnO Nanocrystallites: A Method for Energy-Conversion-Efficiency Enhancement in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1654-1660	15.6	259
498	Highly Efficient and Stable Perovskite Solar Cells Based on Monolithically Grained CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602017	21.8	247
497	Synthesis and Electrochemical Properties of Single-Crystal V <sub>2</sub> O <sub>5</sub> Nanorod Arrays by Template-Based Electrodeposition. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9795-9800	3.4	234
496	ZnO cathode buffer layers for inverted polymer solar cells. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3442-3476	35.4	222
495	Engineering nanostructured electrodes and fabrication of film electrodes for efficient lithium ion intercalation. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1218	35.4	220
494	Effects of Dye Loading Conditions on the Energy Conversion Efficiency of ZnO and TiO <sub>2</sub> Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18804-18811	3.8	211
493	A review on recent developments and challenges of cathode materials for rechargeable aqueous Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18209-18236	13	209
492	Novel Carbon-Encapsulated Porous SnO <sub>2</sub> Anode for Lithium-Ion Batteries with Much Improved Cyclic Stability. <i>Small</i> , <b>2016</b> , 12, 1945-55	11	207
491	Beyond Li-ion: electrode materials for sodium- and magnesium-ion batteries. <i>Science China Materials</i> , <b>2015</b> , 58, 715-766	7.1	203
490	Nitrogen-Doped Yolk-Shell-Structured CoSe/C Dodecahedra for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3624-3633	9.5	197
489	Design and Tailoring of a Three-Dimensional TiO <sub>2</sub> /Graphene/Carbon Nanotube Nanocomposite for Fast Lithium Storage. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 3096-3101	6.4	193
488	From scalable solution fabrication of perovskite films towards commercialization of solar cells. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 518-549	35.4	192
487	Nitrogen modification of highly porous carbon for improved supercapacitor performance. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9884		190
486	Facile synthesis of ultrathin NiCo <sub>2</sub> S <sub>4</sub> nano-petals inspired by blooming buds for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7144-7152	13	189
485	Applications of light scattering in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 14982-98	3.6	187
484	Preparation of carbon coated MoS <sub>2</sub> flower-like nanostructure with self-assembled nanosheets as high-performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7862	13	186

483	Effect of an ultrathin TiO <sub>2</sub> layer coated on submicrometer-sized ZnO nanocrystallite aggregates by atomic layer deposition on the performance of dye-sensitized solar cells. <i>Advanced Materials</i> , <b>2010</b> , 22, 2329-32	24	185
482	General strategy for designing core-shell nanostructured materials for high-power lithium ion batteries. <i>Nano Letters</i> , <b>2012</b> , 12, 5673-8	11.5	183
481	Synthesis and electrochemical properties of vanadium pentoxide nanotube arrays. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 3085-8	3.4	179
480	V <sub>2</sub> O <sub>5</sub> Nano-Electrodes with High Power and Energy Densities for Thin Film Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 194-202	21.8	177
479	Leaf-Like V <sub>2</sub> O <sub>5</sub> Nanosheets Fabricated by a Facile Green Approach as High Energy Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1171-1175	21.8	175
478	Mesoporous vanadium pentoxide nanofibers with significantly enhanced Li-ion storage properties by electrospinning. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 858-861	35.4	167
477	Co <sub>3</sub> S <sub>4</sub> @polyaniline nanotubes as high-performance anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5505-5516	13	164
476	Titania Particle Size Effect on the Overall Performance of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6296-6302	3.8	164
475	Coherent carbon cryogel-ammonia borane nanocomposites for H <sub>2</sub> storage. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7469-72	3.4	159
474	Enhanced Performance of CdS/CdSe Quantum Dot Cosensitized Solar Cells via Homogeneous Distribution of Quantum Dots in TiO <sub>2</sub> Film. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 18655-18662	3.8	158
473	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , <b>2018</b> , 11, 205-259	19.4	157
472	Mesocrystal MnO cubes as anode for Li-ion capacitors. <i>Nano Energy</i> , <b>2016</b> , 22, 290-300	17.1	155
471	Fast and Reversible Li Ion Insertion in Carbon-Encapsulated Li <sub>3</sub> VO <sub>4</sub> as Anode for Lithium-Ion Battery. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3497-3504	15.6	148
470	Mesoporous Hydrous Manganese Dioxide Nanowall Arrays with Large Lithium Ion Energy Storage Capacities. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1015-1023	15.6	148
469	Walnut-like Porous Core/Shell TiO <sub>2</sub> with Hybridized Phases Enabling Fast and Stable Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10652-10663	9.5	145
468	TiO <sub>2</sub> nanotube arrays fabricated by anodization in different electrolytes for biosensing. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 2441-2447	5.1	145
467	Seed-induced growing various TiO <sub>2</sub> nanostructures on g-C <sub>3</sub> N <sub>4</sub> nanosheets with much enhanced photocatalytic activity under visible light. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 292, 79-89	12.8	141
466	Additive-free synthesis of unique TiO <sub>2</sub> mesocrystals with enhanced lithium-ion intercalation properties. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5408-5413	35.4	139

465	Free-standing SnS/C nanofiber anodes for ultralong cycle-life lithium-ion batteries and sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 17, 1-11	19.4	136
464	Exploiting High-Performance Anode through Tuning the Character of Chemical Bonds for Li-Ion Batteries and Capacitors. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601127	21.8	133
463	Hierarchically structured photoelectrodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6769		133
462	Flexible and Wearable All-Solid-State Supercapacitors with Ultrahigh Energy Density Based on a Carbon Fiber Fabric Electrode. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700409	21.8	131
461	Sn-Doped V2O5 Film with Enhanced Lithium-Ion Storage Performance. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 23507-23514	3.8	129
460	Doping effect in layer structured SrBi2Nb2O9 ferroelectrics. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 5296-5302		129
459	Lamellar MoSe nanosheets embedded with MoO nanoparticles: novel hybrid nanostructures promoted excellent performances for lithium ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 17902-17910	7.7	129
458	Integration of micro-supercapacitors with triboelectric nanogenerators for a flexible self-charging power unit. <i>Nano Research</i> , <b>2015</b> , 8, 3934-3943	10	128
457	Phosphorus/sulfur Co-doped porous carbon with enhanced specific capacitance for supercapacitor and improved catalytic activity for oxygen reduction reaction. <i>Journal of Power Sources</i> , <b>2016</b> , 314, 39-48	8.9	123
456	A low crystallinity oxygen-vacancy-rich Co3O4 cathode for high-performance flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16094-16100	13	122
455	Template-free solvothermal synthesis of hollow hematite spheres and their applications in gas sensors and Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6549		122
454	Encapsulation of CoS Nanocrystals into N/S Co-Doped Honeycomb-Like 3D Porous Carbon for High-Performance Lithium Storage. <i>Advanced Science</i> , <b>2018</b> , 5, 1800829	13.6	121
453	Template-free synthesis of ultra-large V2O5 nanosheets with exceptional small thickness for high-performance lithium-ion batteries. <i>Nano Energy</i> , <b>2015</b> , 13, 58-66	17.1	119
452	A highly efficient (>6%) Cd1-xMnxSe quantum dot sensitized solar cell. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19653-19659	13	117
451	Flexible CoO/graphene/carbon nanofiber mats as binder-free anodes for lithium-ion batteries with superior rate capacity and cyclic stability. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5890-5897	13	117
450	Aggregation of ZnO Nanocrystallites for High Conversion Efficiency in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 2436-2440	3.6	117
449	Enhanced ferroelectric properties and lowered processing temperatures of strontium bismuth niobates with vanadium doping. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2650-2652	3.4	116
448	ZnO/TiO2 nanocable structured photoelectrodes for CdS/CdSe quantum dot co-sensitized solar cells. <i>Nanoscale</i> , <b>2013</b> , 5, 936-43	7.7	115

447	Hydrothermal Synthesis of Monoclinic VO <sub>2</sub> Micro- and Nanocrystals in One Step and Their Use in Fabricating Inverse Opals. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3043-3050	9.6	115
446	Sulfurized activated carbon for high energy density supercapacitors. <i>Journal of Power Sources</i> , <b>2014</b> , 252, 90-97	8.9	114
445	ZnO nanoparticles and nanowire array hybrid photoanodes for dye-sensitized solar cells. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 073115	3.4	114
444	. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 1376-1380	9.6	113
443	Design of coherent anode materials with 0D Ni <sub>3</sub> S <sub>2</sub> nanoparticles self-assembled on 3D interconnected carbon networks for fast and reversible sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7394-7402	13	112
442	TiNb <sub>2</sub> O <sub>7</sub> /graphene composites as high-rate anode materials for lithium/sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4242-4251	13	112
441	rGO/SnS <sub>2</sub> /TiO <sub>2</sub> heterostructured composite with dual-confinement for enhanced lithium-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 25056-25063	13	112
440	Impacts of Oxygen Vacancies on Zinc Ion Intercalation in VO. <i>ACS Nano</i> , <b>2020</b> , 14, 5581-5589	16.7	110
439	Mesocrystals as electrode materials for lithium-ion batteries. <i>Nano Today</i> , <b>2014</b> , 9, 499-524	17.9	110
438	Titanium alkoxide induced BiOBr/Bi <sub>2</sub> WO <sub>6</sub> mesoporous nanosheet composites with much enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7949	13	109
437	Monolithic MAPbI <sub>3</sub> films for high-efficiency solar cells via coordination and a heat assisted process. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21313-21319	13	109
436	Ni-V <sub>2</sub> O <sub>5</sub> .nH <sub>2</sub> O core-shell nanocable arrays for enhanced electrochemical intercalation. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 48-51	3.4	109
435	Nanosheet-structured LiV <sub>3</sub> O <sub>8</sub> with high capacity and excellent stability for high energy lithium batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10077		108
434	Architected ZnO photoelectrode for high efficiency quantum dot sensitized solar cells. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3542	35.4	107
433	Self-doped V <sup>4+</sup> /V <sup>5+</sup> V <sub>2</sub> O <sub>5</sub> nanoflake for 2 Li-ion intercalation with enhanced rate and cycling performance. <i>Nano Energy</i> , <b>2016</b> , 22, 1-10	17.1	105
432	Polyol-Mediated Solvothermal Synthesis and Electrochemical Performance of Nanostructured V <sub>2</sub> O <sub>5</sub> Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1621-1626	3.8	105
431	V <sub>2</sub> O <sub>5</sub> xerogel electrodes with much enhanced lithium-ion intercalation properties with N <sub>2</sub> annealing. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8789		105
430	Doubling the power conversion efficiency in CdS/CdSe quantum dot sensitized solar cells with a ZnSe passivation layer. <i>Nano Energy</i> , <b>2016</b> , 26, 114-122	17.1	102

429	Advanced Energy-Storage Architectures Composed of Spinel Lithium Metal Oxide Nanocrystal on Carbon Textiles. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1484-1489	21.8	101
428	Fast and reversible zinc ion intercalation in Al-ion modified hydrated vanadate. <i>Nano Energy</i> , <b>2020</b> , 70, 104519	17.1	100
427	A promising cathode for Li-ion batteries: Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . <i>Energy Storage Materials</i> , <b>2016</b> , 4, 15-58	19.4	99
426	Carbon monoxide annealed TiO <sub>2</sub> nanotube array electrodes for efficient biosensor applications. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 948-953		99
425	Nanoflake-constructed porous Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C hierarchical microspheres as a bicontinuous cathode for sodium-ion batteries applications. <i>Nano Energy</i> , <b>2019</b> , 60, 312-323	17.1	97
424	Inkjet-printed zinc tin oxide thin-film transistor. <i>Langmuir</i> , <b>2009</b> , 25, 11149-54	4	97
423	Growth and electrochromic properties of single-crystal V <sub>2</sub> O <sub>5</sub> nanorod arrays. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 053102	3.4	97
422	Phosphorized SnO <sub>2</sub> /graphene heterostructures for highly reversible lithium-ion storage with enhanced pseudocapacitance. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3479-3487	13	96
421	Controlled growth of textured perovskite films towards high performance solar cells. <i>Nano Energy</i> , <b>2016</b> , 27, 17-26	17.1	96
420	Comparison of amorphous, pseudo-hexagonal and orthorhombic Nb <sub>2</sub> O <sub>5</sub> for high-rate lithium ion insertion. <i>CrystEngComm</i> , <b>2016</b> , 18, 2532-2540	3.3	96
419	Mesoporous TiO <sub>2</sub> beads for high efficiency CdS/CdSe quantum dot co-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2517	13	96
418	Control of Nanostructures and Interfaces of Metal Oxide Semiconductors for Quantum-Dots-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1859-69	6.4	95
417	High-rate cathodes based on Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanobelts prepared via surfactant-assisted fabrication. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3646-3649	8.9	95
416	Reversible and fast Na-ion storage in MoO <sub>2</sub> /MoSe <sub>2</sub> heterostructures for high energy-high power Na-ion capacitors. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 241-251	19.4	94
415	Template free synthesis of LiV <sub>3</sub> O <sub>8</sub> nanorods as a cathode material for high-rate secondary lithium batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1153-1161		94
414	TiO <sub>2</sub> nanotube arrays annealed in CO exhibiting high performance for lithium ion intercalation. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 6816-6820	6.7	94
413	Bandgap-Graded Cu <sub>2</sub> Zn(Sn <sub>1-x</sub> G <sub>x</sub> )S <sub>4</sub> Thin-Film Solar Cells Derived from Metal Chalcogenide Complex Ligand Capped Nanocrystals. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3957-3965	9.6	93
412	Composite Gel Polymer Electrolyte Based on Poly(vinylidene fluoride-hexafluoropropylene) (PVDF-HFP) with Modified Aluminum-Doped Lithium Lanthanum Titanate (A-LLTO) for High-Performance Lithium Rechargeable Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20710-9	9.5	93

411	Chemical Synthesis of 3D Graphene-Like Cages for Sodium-Ion Batteries Applications. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700797	21.8	91
410	Generation of hydrogen from aluminum and water [Effect of metal oxide nanocrystals and water quality. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 15136-15144	6.7	91
409	Self-assembled nanoporous rutile TiO <sub>2</sub> mesocrystals with tunable morphologies for high rate lithium-ion batteries. <i>Nano Energy</i> , <b>2012</b> , 1, 466-471	17.1	90
408	Graphene oxide oxidizes stannous ions to synthesize tin sulfide-graphene nanocomposites with small crystal size for high performance lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23091		90
407	Effects of thermal annealing on the Li(+) intercalation properties of V(2)O(5) x nH(2)O xerogel films. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11361-6	3.4	90
406	Semiconductor quantum dot-sensitized solar cells. <i>Nano Reviews</i> , <b>2013</b> , 4,		87
405	Enhanced Lithium-Ion Intercalation Properties of V <sub>2</sub> O <sub>5</sub> Xerogel Electrodes with Surface Defects. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 4959-4965	3.8	86
404	Metal-organic framework-derived porous shuttle-like vanadium oxides for sodium-ion battery application. <i>Nano Research</i> , <b>2018</b> , 11, 449-463	10	85
403	Oxygen-vacancy-related dielectric relaxation in SrBi <sub>2</sub> Ta <sub>1.8</sub> V <sub>0.2</sub> O <sub>9</sub> ferroelectrics. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 5647-5652	2.5	84
402	Charge transport properties in TiO <sub>2</sub> network with different particle sizes for dye sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1044-52	9.5	83
401	Dual-ion batteries: The emerging alternative rechargeable batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 1-32	19.4	83
400	Graphene-Encapsulated FeS in Carbon Fibers as High Reversible Anodes for Na /K Batteries in a Wide Temperature Range. <i>Small</i> , <b>2019</b> , 15, e1804740	11	82
399	Sulfur-rich carbon cryogels for supercapacitors with improved conductivity and wettability. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8472	13	81
398	Effect of Annealing Temperature on TiO <sub>2</sub> /ZnO Core-Shell Aggregate Photoelectrodes of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 4927-4934	3.8	81
397	TiO <sub>2</sub> Nanotube Arrays Annealed in N <sub>2</sub> for Efficient Lithium-Ion Intercalation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11175-11180	3.8	81
396	Recent Progress in Dye-Sensitized Solar Cells Using Nanocrystallite Aggregates. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 988-1001	21.8	80
395	Effects of Lithium Ions on Dye-Sensitized ZnO Aggregate Solar Cells. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2427-2433	9.6	79
394	Tin sulfide nanoparticles embedded in sulfur and nitrogen dual-doped mesoporous carbon fibers as high-performance anodes with battery-capacitive sodium storage. <i>Energy Storage Materials</i> , <b>2019</b> , 18, 366-374	19.4	78



393	Rational design of multi-shelled CoO/Co <sub>9</sub> S <sub>8</sub> hollow microspheres for high-performance hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18448-18456	13	78
392	Effects of Iodine Content in the Electrolyte on the Charge Transfer and Power Conversion Efficiency of Dye-Sensitized Solar Cells under Low Light Intensities. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25727-25733	3.8	78
391	Self-templated synthesis of N-doped CoSe <sub>2</sub> /C double-shelled dodecahedra for high-performance supercapacitors. <i>Energy Storage Materials</i> , <b>2017</b> , 8, 28-34	19.4	77
390	Sulfur-deficient MoS <sub>2</sub> grown inside hollow mesoporous carbon as a functional polysulfide mediator. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12068-12074	13	77
389	Hierarchically structured ZnO nanorods-nanosheets for improved quantum-dot-sensitized solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4466-72	9.5	77
388	Heterogeneous NiS/NiO multi-shelled hollow microspheres with enhanced electrochemical performances for hybrid-type asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9153-9160	13	76
387	Three-dimensional coherent titania-mesoporous carbon nanocomposite and its lithium-ion storage properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 2985-92	9.5	76
386	Transparent and Flexible Self-Charging Power Film and Its Application in a Sliding Unlock System in Touchpad Technology. <i>ACS Nano</i> , <b>2016</b> , 10, 8078-86	16.7	75
385	Energy storage through intercalation reactions: electrodes for rechargeable batteries. <i>National Science Review</i> , <b>2017</b> , 4, 26-53	10.8	74
384	Oxygen-deficient titanium dioxide as a functional host for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10346-10353	13	74
383	Hierarchical mesoporous MoSe <sub>2</sub> @CoSe/N-doped carbon nanocomposite for sodium ion batteries and hydrogen evolution reaction applications. <i>Energy Storage Materials</i> , <b>2019</b> , 21, 97-106	19.4	73
382	Cryptomelane-type MnO <sub>2</sub> /carbon nanotube hybrids as bifunctional electrode material for high capacity potassium-ion full batteries. <i>Nano Energy</i> , <b>2018</b> , 54, 106-115	17.1	72
381	Colloidal engineering for monolayer CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films toward high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24168-24177	13	71
380	MnO nanoparticles with cationic vacancies and discrepant crystallinity dispersed into porous carbon for Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3362-3370	13	71
379	Nickel-mediated polyol synthesis of hierarchical V <sub>2</sub> O <sub>5</sub> hollow microspheres with enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1979-1985	13	71
378	Photoinduced Charge Transfer and Polaron Dynamics in Polymer and Hybrid Photovoltaic Thin Films: Organic vs Inorganic Acceptors. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24403-24410	3.8	71
377	High Efficiency CdS/CdSe Quantum Dot Sensitized Solar Cells with Two ZnSe Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34482-34489	9.5	71
376	Three dimensional architecture of carbon wrapped multilayer Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F nanocubes embedded in graphene for improved sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 17563-17568	13	70

- 375 High-Rate  $\text{LiTi}_2(\text{PO}_4)_3@N\text{-C}$  Composite via Bi-nitrogen Sources Doping. *ACS Applied Materials & Interfaces*, **2015**, 7, 28337-45 9.5 70
- 374 Spectroscopic studies of dehydrogenation of ammonia borane in carbon cryogel. *Journal of Physical Chemistry B*, **2007**, 111, 14285-9 3.4 70
- 373 Single Nozzle Electrospinning Synthesized  $\text{MoO}_2@C$  Core Shell Nanofibers with High Capacity and Long-Term Stability for Lithium-Ion Storage. *Advanced Materials Interfaces*, **2017**, 4, 1600816 4.6 69
- 372 Uniform  $8\text{LiFePO}_4 \cdot 3\text{V}_2(\text{PO}_4)_3/C$  nanoflakes for high-performance Li-ion batteries. *Nano Energy*, **2016**, 22, 48-58 17.1 69
- 371 Amorphous silica molecular sieving membranes by sol-gel processing. *Advanced Materials*, **1996**, 8, 588-591 69
- 370 Constructing water-resistant  $\text{CH}_3\text{NH}_3\text{PbI}_3$  perovskite films via coordination interaction. *Journal of Materials Chemistry A*, **2016**, 4, 17018-17024 13 69
- 369 Constructing ZnO nanorod array photoelectrodes for highly efficient quantum dot sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 6770 13 67
- 368 Enhanced storage of sodium ions in Prussian blue cathode material through nickel doping. *Journal of Materials Chemistry A*, **2017**, 5, 9604-9610 13 66
- 367 Mechanism of cycling degradation and strategy to stabilize a nickel-rich cathode. *Journal of Materials Chemistry A*, **2018**, 6, 16149-16163 13 66
- 366 N-doped one-dimensional carbonaceous backbones supported  $\text{MoSe}_2$  nanosheets as superior electrodes for energy storage and conversion. *Chemical Engineering Journal*, **2018**, 334, 2190-2200 14.7 66
- 365 Effect of  $\text{Al}(\text{OH})_3$  on the hydrogen generation of aluminum-water system. *Journal of Power Sources*, **2012**, 219, 16-21 8.9 65
- 364 Freestanding flexible graphene foams@polypyrrole@ $\text{MnO}_2$  electrodes for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 9196-9203 13 65
- 363 Oxygen vacancy-enriched  $\text{MoO}_3$  nanobelts for asymmetric supercapacitors with excellent room/low temperature performance. *Journal of Materials Chemistry A*, **2019**, 7, 13205-13214 13 64
- 362 Influence of deposition strategies on CdSe quantum dot-sensitized solar cells: a comparison between successive ionic layer adsorption and reaction and chemical bath deposition. *Journal of Materials Chemistry A*, **2015**, 3, 12539-12549 13 64
- 361 A three layer design with mesoporous silica encapsulated by a carbon core and shell for high energy lithium ion battery anodes. *Journal of Materials Chemistry A*, **2015**, 3, 22739-22749 13 64
- 360 High performance of Mn-doped CdSe quantum dot sensitized solar cells based on the vertical ZnO nanorod arrays. *Journal of Power Sources*, **2016**, 325, 438-445 8.9 64
- 359 Synthesis and electrochemical properties of  $\text{InVO}_4$  nanotube arrays. *Journal of Materials Chemistry*, **2007**, 17, 894-899 64
- 358 Dependence of electrochemical properties of vanadium oxide films on their nano- and microstructures. *Journal of Physical Chemistry B*, **2005**, 109, 16700-4 3.4 64

357	Probing the Photovoltage and Photocurrent in Perovskite Solar Cells with Nanoscale Resolution. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3048-3058	15.6	64
356	Phase Transition Induced Synthesis of Layered/Spinel Heterostructure with Enhanced Electrochemical Properties. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604349	15.6	63
355	Structural engineering of hydrated vanadium oxide cathode by K <sup>+</sup> incorporation for high-capacity and long-cycling aqueous zinc ion batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 29, 9-16	19.4	63
354	Enhanced Performance of PbS-quantum-dot-sensitized Solar Cells via Optimizing Precursor Solution and Electrolytes. <i>Scientific Reports</i> , <b>2016</b> , 6, 23094	4.9	63
353	Hollow-Cuboid Li <sub>3</sub> VO <sub>4</sub> /C as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 680-8	9.5	63
352	Efficiency Enhancement of Quantum Dot Sensitized TiO <sub>2</sub> /ZnO Nanorod Arrays Solar Cells by Plasmonic Ag Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26675-26682	9.5	62
351	Porous carbon with high capacitance and graphitization through controlled addition and removal of sulfur-containing compounds. <i>Nano Energy</i> , <b>2015</b> , 12, 567-577	17.1	62
350	Li <sup>+</sup> -intercalation electrochemical/electrochromic properties of vanadium pentoxide films by sol electrophoretic deposition. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 4865-4872	6.7	62
349	Inverse Capacity Growth and Pocket Effect in SnS Semifilled Carbon Nanotube Anode. <i>ACS Nano</i> , <b>2018</b> , 12, 8037-8047	16.7	61
348	Superior Pseudocapacitive Lithium-Ion Storage in Porous Vanadium Oxides@C Heterostructure Composite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 43665-43673	9.5	61
347	Highly porous chemically modified carbon cryogels and their coherent nanocomposites for energy applications. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5619-5637	35.4	61
346	Constructing metallic zinc-cobalt sulfide hierarchical core-shell nanosheet arrays derived from 2D metal-organic-frameworks for flexible asymmetric supercapacitors with ultrahigh specific capacitance and performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7138-7150	13	61
345	Impacts of surface or interface chemistry of ZnSe passivation layer on the performance of CdS/CdSe quantum dot sensitized solar cells. <i>Nano Energy</i> , <b>2017</b> , 32, 433-440	17.1	60
344	Highly efficient quantum dot-sensitized TiO <sub>2</sub> solar cells based on multilayered semiconductors (ZnSe/CdS/CdSe). <i>Nanoscale</i> , <b>2015</b> , 7, 3173-80	7.7	60
343	Enhanced power conversion efficiency in dye-sensitized solar cells with TiO <sub>2</sub> aggregates/nanocrystallites mixed photoelectrodes. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1960-1966	6.7	60
342	Ferroelectric and Dielectric Properties of Strontium Bismuth Niobate Vanadates. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 1583-1590	2.5	60
341	Enhanced electrochemical and structural properties of carbon cryogels by surface chemistry alteration with boron and nitrogen. <i>Carbon</i> , <b>2009</b> , 47, 1436-1443	10.4	59
340	Growth and Electrochemical Properties of Single-Crystalline V <sub>2</sub> O <sub>5</sub> Nanorod Arrays. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 662-668	1.4	59

- 339 A Confined Replacement Synthesis of Bismuth Nanodots in MOF Derived Carbon Arrays as Binder-Free Anodes for Sodium-Ion Batteries. *Advanced Science*, **2019**, 6, 1900162 13.6 58
- 338 Oxide nanowires for solar cell applications. *Nanoscale*, **2012**, 4, 1436-45 7.7 57
- 337 Enhanced Photovoltaic Performance of Nanostructured Hybrid Solar Cell Using Highly Oriented TiO<sub>2</sub> Nanotubes. *Journal of Physical Chemistry C*, **2010**, 114, 21851-21855 3.8 57
- 336 The Role of Intentionally Introduced Defects on Electrode Materials for Alkali-Ion Batteries. *Chemistry - an Asian Journal*, **2015**, 10, 1608-17 4.5 56
- 335 A comparison of ZnS and ZnSe passivation layers on CdS/CdSe co-sensitized quantum dot solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 14773-14780 13 56
- 334 High-performance anode based on porous Co<sub>3</sub>O<sub>4</sub> nanodiscs. *Journal of Power Sources*, **2014**, 255, 125-129 3.9 55
- 333 Uniform MnCoO Porous Dumbbells for Lithium-Ion Batteries and Oxygen Evolution Reactions. *ACS Applied Materials & Interfaces*, **2018**, 10, 8730-8738 9.5 54
- 332 Tubular MoO<sub>2</sub> organized by 2D assemblies for fast and durable alkali-ion storage. *Energy Storage Materials*, **2018**, 11, 161-169 19.4 54
- 331 High-Voltage-Efficiency Inorganic Perovskite Solar Cells in a Wide Solution-Processing Window. *Journal of Physical Chemistry Letters*, **2018**, 9, 3646-3653 6.4 54
- 330 SnP/Carbon Nanocomposite as an Anode Material for Potassium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 26976-26984 9.5 54
- 329 Facile synthesis of nanostructured vanadium oxide as cathode materials for efficient Li-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 24439 54
- 328 A C<sub>60</sub>/TiO<sub>x</sub> bilayer for conformal growth of perovskite films for UV stable perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 11086-11094 13 53
- 327 Tailoring band structure of ternary CdS<sub>x</sub>Se<sub>1-x</sub> quantum dots for highly efficient sensitized solar cells. *Solar Energy Materials and Solar Cells*, **2016**, 155, 20-29 6.4 53
- 326 Delineating local electromigration for nanoscale probing of lithium ion intercalation and extraction by electrochemical strain microscopy. *Applied Physics Letters*, **2012**, 101, 063901 3.4 52
- 325 Single-Crystalline Mesoporous Molybdenum Nitride Nanowires with Improved Electrochemical Properties. *Journal of the American Ceramic Society*, **2013**, 96, 37-39 3.8 51
- 324 Standing [111] gold nanotube to nanorod arrays via template growth. *Nanotechnology*, **2006**, 17, 2689-94 3.4 51
- 323 Ditungsten carbide nanoparticles encapsulated by ultrathin graphitic layers with excellent hydrogen-evolution electrocatalytic properties. *Journal of Materials Chemistry A*, **2016**, 4, 8204-8210 13 51
- 322 S-doped porous carbon confined SnS nanospheres with enhanced electrochemical performance for sodium-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 18286-18292 13 51

321	Yolk-shell structured V <sub>2</sub> O <sub>3</sub> microspheres wrapped in N, S co-doped carbon as pea-pod nanofibers for high-capacity lithium ion batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 545-553	14.7	50
320	Synthesis of oxidation-resistant core-shell copper nanoparticles. <i>RSC Advances</i> , <b>2013</b> , 3, 15169	3.7	50
319	Strategies for Building Robust Traffic Networks in Advanced Energy Storage Devices: A Focus on Composite Electrodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804204	24	50
318	Facile synthesis of Nb <sub>2</sub> O <sub>5</sub> /carbon nanocomposites as advanced anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 63-71	6.7	50
317	Self-supported binder-free carbon fibers/MnO <sub>2</sub> electrodes derived from disposable bamboo chopsticks for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 699, 126-135	5.7	49
316	Ni <sub>0.85</sub> Co <sub>0.15</sub> WO <sub>4</sub> nanosheet electrodes for supercapacitors with excellent electrical conductivity and capacitive performance. <i>Nano Energy</i> , <b>2018</b> , 48, 430-440	17.1	49
315	Design, fabrication and modification of metal oxide semiconductor for improving conversion efficiency of excitonic solar cells. <i>Coordination Chemistry Reviews</i> , <b>2016</b> , 320-321, 193-215	23.2	49
314	Stabilization of organometal halide perovskite films by SnO <sub>2</sub> coating with inactive surface hydroxyl groups on ZnO nanorods. <i>Journal of Power Sources</i> , <b>2017</b> , 339, 51-60	8.9	49
313	Homogenous incorporation of SnO <sub>2</sub> nanoparticles in carbon cryogels via the thermal decomposition of stannous sulfate and their enhanced lithium-ion intercalation properties. <i>Nano Energy</i> , <b>2013</b> , 2, 769-778	17.1	49
312	Synergistic coupling of lamellar MoSe <sub>2</sub> and SnO <sub>2</sub> nanoparticles via chemical bonding at interface for stable and high-power sodium-ion capacitors. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 1164-1173	14.7	48
311	Low-temperature solution growth of ZnO nanotube arrays. <i>Beilstein Journal of Nanotechnology</i> , <b>2010</b> , 1, 128-34	3	48
310	Room-Temperature Construction of Mixed-Halide Perovskite Quantum Dots with High Photoluminescence Quantum Yield. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5151-5160	3.8	47
309	Engineering Halide Perovskite Crystals through Precursor Chemistry. <i>Small</i> , <b>2019</b> , 15, e1903613	11	47
308	Superior sodium storage performance of additive-free V <sub>2</sub> O <sub>5</sub> thin film electrodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16590-16594	13	47
307	Hydrothermal synthesis of coherent porous V <sub>2</sub> O <sub>3</sub> /carbon nanocomposites for high-performance lithium- and sodium-ion batteries. <i>Science China Materials</i> , <b>2017</b> , 60, 717-727	7.1	47
306	Processing and Properties of Strontium Bismuth Vanadate Niobate Ferroelectric Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 2882-2888	3.8	47
305	Hierarchically carbon-coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanoflakes for high-rate capability and ultralong cycle-life sodium ion batteries. <i>Chemical Engineering Journal</i> , <b>2018</b> , 339, 162-169	14.7	46
304	3D flexible O/N Co-doped graphene foams for supercapacitor electrodes with high volumetric and areal capacitances. <i>Journal of Power Sources</i> , <b>2016</b> , 336, 455-464	8.9	46

303	Investigation of the role of Mn dopant in CdS quantum dot sensitized solar cell. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 62-69	6.7	46
302	Kinetic surface control for improved magnesium-electrolyte interfaces for magnesium ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 22, 96-104	19.4	46
301	Enhanced intercalation dynamics and stability of engineered micro/nano-structured electrode materials: vanadium oxide mesocrystals. <i>Small</i> , <b>2013</b> , 9, 3880-6	11	46
300	Necklace-like Si@C nanofibers as robust anode materials for high performance lithium ion batteries. <i>Science Bulletin</i> , <b>2019</b> , 64, 261-269	10.6	45
299	SnS Nanosheets Confined Growth by S and N Codoped Graphene with Enhanced Pseudocapitance for Sodium-Ion Capacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41363-41373	9.5	45
298	Hierarchically structured TiO <sub>2</sub> for Ba-filled skutterudite with enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20629-20635	13	45
297	Activated carbon cryogels for low pressure methane storage. <i>Carbon</i> , <b>2006</b> , 44, 590-593	10.4	45
296	Photoinduced enhancement of a triboelectric nanogenerator based on an organolead halide perovskite. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 10395-10399	7.1	45
295	Coherent Mn <sub>3</sub> O <sub>4</sub> -carbon nanocomposites with enhanced energy-storage capacitance. <i>Nano Research</i> , <b>2015</b> , 8, 3372-3383	10	44
294	Rapid construction of TiO <sub>2</sub> aggregates using microwave assisted synthesis and its application for dye-sensitized solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 8622-8629	3.7	44
293	Dynamic Growth of Pinhole-Free Conformal CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4684-90	9.5	44
292	Effect of pore morphology on the electrochemical properties of electric double layer carbon cryogel supercapacitors. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 014305	2.5	44
291	Lithium iron phosphate/carbon nanocomposite film cathodes for high energy lithium ion batteries. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2559-2565	6.7	43
290	Hollow Silica Spheres Embedded in a Porous Carbon Matrix and Its Superior Performance as the Anode for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 110-117	3.1	43
289	Layered ternary metal oxides: Performance degradation mechanisms as cathodes, and design strategies for high-performance batteries. <i>Progress in Materials Science</i> , <b>2020</b> , 111, 100655	42.2	42
288	Adhesion of Sol-Gel-Derived Organic-Inorganic Hybrid Coatings on Polyester. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 27, 31-41	2.3	42
287	Catalyzing zinc-ion intercalation in hydrated vanadates for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 7713-7723	13	41
286	S-doped carbon@TiO <sub>2</sub> to store Li <sup>+</sup> /Na <sup>+</sup> with high capacity and long life-time. <i>Energy Storage Materials</i> , <b>2018</b> , 13, 215-222	19.4	41

285	Additive-free solvothermal synthesis of hierarchical flower-like LiFePO <sub>4</sub> /C mesocrystal and its electrochemical performance. <i>RSC Advances</i> , <b>2013</b> , 3, 19366	3.7	41
284	Understanding the phase transitions in spinel-layered-rock salt system: Criterion for the rational design of LLO/spinel nanocomposites. <i>Nano Energy</i> , <b>2017</b> , 40, 566-575	17.1	41
283	Tuning dehydrogenation temperature of carbon–ammonia borane nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 4034		41
282	High power high safety battery with electrospun Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cathode and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode with 95% energy efficiency. <i>Energy Storage Materials</i> , <b>2016</b> , 5, 93-102	19.4	40
281	Nanorod-nanosheet hierarchically structured ZnO crystals on zinc foil as flexible photoanodes for dye-sensitized solar cells. <i>Nanoscale</i> , <b>2013</b> , 5, 1894-901	7.7	40
280	ZnO nanocrystallite aggregates synthesized through interface precipitation for dye-sensitized solar cells. <i>Nano Energy</i> , <b>2013</b> , 2, 40-48	17.1	40
279	Enhanced Electrochemical Properties of Sn-doped V <sub>2</sub> O <sub>5</sub> as a Cathode Material for Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 1831-1838	6.7	40
278	Synergistic combination of semiconductor quantum dots and organic-inorganic halide perovskites for hybrid solar cells. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 374, 279-313	23.2	39
277	Ordered mesoporous tungsten carbide nanoplates as non-Pt catalysts for oxygen reduction reaction. <i>Applied Catalysis A: General</i> , <b>2014</b> , 477, 102-108	5.1	39
276	Influences of vanadium doping on ferroelectric properties of strontium bismuth niobates. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 267-269		39
275	Manipulation of charge transport in ferroelectric-semiconductor hybrid for photoelectrochemical applications. <i>Nano Energy</i> , <b>2018</b> , 44, 63-72	17.1	39
274	Continuous Size Tuning of Monodispersed ZnO Nanoparticles and Its Size Effect on the Performance of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9785-9794	9.5	38
273	Chemically Bonding NiFe-LDH Nanosheets on rGO for Superior Lithium-Ion Capacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35977-35986	9.5	38
272	Nanoflake-assembled three-dimensional Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cathode for high performance sodium ion batteries. <i>Chemical Engineering Journal</i> , <b>2018</b> , 335, 301-308	14.7	38
271	FeOx@carbon yolk/shell nanowires with tailored void spaces as stable and high-capacity anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12487-12496	13	38
270	Nanorod-Nanoflake Interconnected LiMnPO <sub>4</sub> /LiV(PO) <sub>4</sub> /C Composite for High-Rate and Long-Life Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27632-27641	9.5	38
269	Microwave-Assisted Synthesis of SnO <sub>2</sub> Nanosheets Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25931-25938	3.8	37
268	Influence of tungsten doping on dielectric properties of strontium bismuth niobate ferroelectric ceramics. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 947-949		37

- 267 Gradient Oxygen Vacancies in V<sub>2</sub>O<sub>5</sub>/PEDOT Nanocables for High-Performance Supercapacitors. *ACS Applied Energy Materials*, **2019**, 2, 668-677 6.1 37
- 266 Interface Engineering V O Nanofibers for High-Energy and Durable Supercapacitors. *Small*, **2019**, 15, e1901747 11 36
- 265 N-Type Hyperbranched Polymers for Supercapacitor Cathodes with Variable Porosity and Excellent Electrochemical Stability. *Macromolecules*, **2015**, 48, 5196-5203 5.5 36
- 264 Nitrogenated porous carbon electrodes for supercapacitors. *Journal of Materials Science*, **2012**, 47, 5996-6004 4.9 36
- 263 Photocatalytic property of perovskite LaFeO<sub>3</sub> synthesized by sol-gel process and vacuum microwave calcination. *Materials Research Bulletin*, **2016**, 84, 15-24 5.1 36
- 262 High Energy Capacitors Based on All Metal-Organic Frameworks Derivatives and Solar-Charging Station Application. *Small*, **2019**, 15, e1902280 11 35
- 261 Aqueous Al-Ion Supercapacitor with VO Mesoporous Carbon Electrodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 15573-15580 9.5 35
- 260 A novel anion-exchange strategy for constructing high performance PbS quantum dot-sensitized solar cells. *Nano Energy*, **2016**, 30, 559-569 17.1 35
- 259 Dodecahedron-Shaped Porous Vanadium Oxide and Carbon Composite for High-Rate Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 17303-11 9.5 35
- 258 Monolayer-like hybrid halide perovskite films prepared by additive engineering without antisolvents for solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 15386-15394 13 35
- 257 Improved charge generation and collection in dye-sensitized solar cells with modified photoanode surface. *Nano Energy*, **2014**, 10, 353-362 17.1 35
- 256 Engineering nanostructured electrodes away from equilibrium for lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 9969 35
- 255 Tailoring Energy and Power Density through Controlling the Concentration of Oxygen Vacancies in VO/PEDOT Nanocable-Based Supercapacitors. *ACS Applied Materials & Interfaces*, **2019**, 11, 16647-16655 9.5 34
- 254 Highly Efficient Storage of Pulse Energy Produced by Triboelectric Nanogenerator in Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>/C Cathode Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 862-70 9.5 34
- 253 Nano-FeC@PGC as a novel low-cost anode electrocatalyst for superior performance microbial fuel cells. *Biosensors and Bioelectronics*, **2019**, 142, 111594 11.8 34
- 252 Potassium nickel hexacyanoferrate as cathode for high voltage and ultralong life potassium-ion batteries. *Energy Storage Materials*, **2019**, 22, 120-127 19.4 34
- 251 Copper nanocrystal modified activated carbon for supercapacitors with enhanced volumetric energy and power density. *Journal of Power Sources*, **2013**, 236, 215-223 8.9 34
- 250 Novel Photoanode for Dye-Sensitized Solar Cells with Enhanced Light-Harvesting and Electron-Collection Efficiency. *ACS Applied Materials & Interfaces*, **2016**, 8, 13418-25 9.5 34



249	Three-Dimensional Carbon-Coated Treelike NiS Superstructures on a Nickel Foam as Binder-Free Bifunctional Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 36018-36027	9.5	34
248	Repairing Defects of Halide Perovskite Films To Enhance Photovoltaic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37005-37013	9.5	34
247	High performance silicon-organic hybrid solar cells via improving conductivity of PEDOT:PSS with reduced graphene oxide. <i>Applied Surface Science</i> , <b>2017</b> , 407, 398-404	6.7	33
246	Enhanced Electrochemical Properties of Li VO with Controlled Oxygen Vacancies as Li-Ion Battery Anode. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5368-5374	4.8	33
245	V2O3/C nanocomposites with interface defects for enhanced intercalation pseudocapitance. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 635-643	6.7	33
244	Stannous ions reducing graphene oxide at room temperature to produce SnOx-porous, carbon-nanofiber flexible mats as binder-free anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12672-12679	13	33
243	3D-printed interdigitated graphene framework as superior support of metal oxide nanostructures for remarkable micro-pseudocapacitors. <i>Electrochimica Acta</i> , <b>2019</b> , 319, 245-252	6.7	33
242	Porous nanostructured V2O5 film electrode with excellent Li-ion intercalation properties. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 1276-1279	5.1	33
241	Charge Transport Properties of ZnO Nanorod Aggregate Photoelectrodes for DSCs. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20992-20999	3.8	33
240	Formation and Optical Properties of Cylindrical Gold Nanoshells on Silica and Titania Nanorods. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 13313-13318	3.4	33
239	In situ assembly of well-defined Au nanoparticles in TiO2 films for plasmon-enhanced quantum dot sensitized solar cells. <i>Nano Energy</i> , <b>2018</b> , 44, 135-143	17.1	33
238	A Phase-Separation Route to Synthesize Porous CNTs with Excellent Stability for Na Storage. <i>Small</i> , <b>2017</b> , 13, 1604045	11	32
237	Effects of Preinserted Na Ions on Li-Ion Electrochemical Intercalation Properties of V2O5. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24629-37	9.5	32
236	Impacts of Surface Energy on Lithium Ion Intercalation Properties of V2O5. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19542-9	9.5	32
235	Effect of surface defects on biosensing properties of TiO2 nanotube arrays. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 155, 159-164	8.5	31
234	Covalent organic framework-regulated ionic transportation for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26540-26548	13	31
233	Dye-sensitized solar cells based on hierarchically structured porous TiO2 filled with nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11320-11329	13	30
232	Facile one-step fabrication of CdS0.12Se0.88 quantum dots with a ZnSe/ZnS-passivation layer for highly efficient quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9866-9873	13	30

- 231 Synthesis of cadmium tungstate films via sol-gel processing. *Thin Solid Films*, **2003**, 434, 55-61 2.2 30
- 230 Expanded MoSe Nanosheets Vertically Bonded on Reduced Graphene Oxide for Sodium and Potassium-Ion Storage. *ACS Applied Materials & Interfaces*, **2021**, 13, 13158-13169 9.5 30
- 229 One-pot synthesis of in-situ carbon-coated FeO as a long-life lithium-ion battery anode. *Nanotechnology*, **2017**, 28, 155603 3.4 29
- 228 The effects of Ta<sub>2</sub>O<sub>5</sub>/SnO<sub>2</sub> films as cathodic buffer layers in inverted polymer solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 9361-9370 13 29
- 227 Nanorods of Various Oxides and Hierarchically Structured Mesoporous Silica by Sol-Gel Electrophoresis. *Journal of Sol-Gel Science and Technology*, **2003**, 26, 577-581 2.3 29
- 226 Insights into degradation of metallic lithium electrodes protected by a bilayer solid electrolyte based on aluminium substituted lithium lanthanum titanate in lithium-air batteries. *Journal of Materials Chemistry A*, **2016**, 4, 11124-11138 13 28
- 225 Surface Engineering of Quantum Dots for Remarkably High Detectivity Photodetectors. *Journal of Physical Chemistry Letters*, **2018**, 9, 3285-3294 6.4 28
- 224 V<sub>2</sub>O<sub>5</sub>/Conductive polymer nanocables with built-in local electric field derived from interfacial oxygen vacancies for high energy density supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 17966-17973 13 28
- 223 Effect of the adsorbed concentration of dye on charge recombination in dye-sensitized solar cells. *Journal of Electroanalytical Chemistry*, **2013**, 694, 6-11 4.1 28
- 222 Fabrication of TiO<sub>2</sub> Aggregates by Electrospraying and Their Application in Dye-Sensitized Solar Cells. *Nanoscience and Nanotechnology Letters*, **2011**, 3, 690-696 0.8 28
- 221 Enhanced lithium-ion intercalation properties of coherent hydrous vanadium pentoxide/carbon cryogel nanocomposites. *Journal of Power Sources*, **2010**, 195, 3893-3899 8.9 28
- 220 The general synthesis of Ag nanoparticles anchored on silver vanadium oxides: towards high performance cathodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 11029-11034 13 27
- 219 Efficient band alignment for Zn<sub>x</sub>Cd<sub>1-x</sub>Se QD-sensitized TiO<sub>2</sub> solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 3669 13 27
- 218 Growth and Characterization of [001] ZnO Nanorod Array on ITO Substrate with Electric Field Assisted Nucleation. *Journal of Sol-Gel Science and Technology*, **2006**, 38, 79-84 2.3 27
- 217 Chelate-induced formation of Li<sub>2</sub>MnSiO<sub>4</sub> nanorods as a high capacity cathode material for Li-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 9447-9454 13 27
- 216 Increased working voltage of hexamine-coated porous carbon for supercapacitors. *Science Bulletin*, **2015**, 60, 1587-1597 10.6 26
- 215 Self-templating synthesis of double-wall shelled vanadium oxide hollow microspheres for high-performance lithium ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 6792-6799 13 26
- 214 Facile and scalable engineering of a heterogeneous microstructure for uniform, stable and fast lithium plating/stripping. *Journal of Materials Chemistry A*, **2019**, 7, 19104-19111 13 26

213	In situ hydrothermal growth of hierarchical ZnO nanourchin for high-efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2014</b> , 254, 153-160	8.9	26
212	Low temperature hydrothermal synthesis of SrTiO <sub>3</sub> nanoparticles without alkali and their effective photocatalytic activity. <i>Journal of Advanced Ceramics</i> , <b>2016</b> , 5, 298-307	10.7	26
211	Controlled growth of Cu <sub>3</sub> Se <sub>2</sub> nanosheets array counter electrode for quantum dots sensitized solar cell through ion exchange. <i>Science China Materials</i> , <b>2017</b> , 60, 637-645	7.1	25
210	Highly Reversible Sodium-ion Storage in NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C Composite Nanofibers. <i>Electrochimica Acta</i> , <b>2017</b> , 252, 523-531	6.7	25
209	Carbon quantum dot modified Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> as a high-performance cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18872-18879	13	25
208	Enhanced Reversible Zinc Ion Intercalation in Deficient Ammonium Vanadate for High-Performance Aqueous Zinc-Ion Battery. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 116	19.5	25
207	Mesoporous Tungsten Trioxide Polyaniline Nanocomposite as an Anode Material for High-Performance Lithium-Ion Batteries. <i>ChemNanoMat</i> , <b>2016</b> , 2, 281-289	3.5	25
206	Band-structure tailoring and surface passivation for highly efficient near-infrared responsive PbS quantum dot photovoltaics. <i>Journal of Power Sources</i> , <b>2016</b> , 333, 107-117	8.9	25
205	Interface Reduction Synthesis of H <sub>2</sub> V <sub>3</sub> O <sub>8</sub> Nanobelts@Graphene for High-Rate Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11391-11399	3.8	24
204	Effects of high surface energy on lithium-ion intercalation properties of Ni-doped Li <sub>3</sub> VO <sub>4</sub> . <i>NPG Asia Materials</i> , <b>2016</b> , 8, e287-e287	10.3	24
203	Improved Lithium Ion Behavior Properties of TiO <sub>2</sub> @Graphitic-like Carbon Core@Shell Nanostructure. <i>Electrochimica Acta</i> , <b>2014</b> , 147, 241-249	6.7	24
202	Synthesis of Na <sub>1.25</sub> V <sub>3</sub> O <sub>8</sub> nanobelts with excellent long-term stability for rechargeable lithium-ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11913-7	9.5	24
201	Influence of Surface Chemistry on Dehydrogenation in Carbon Cryogel Ammonia Borane Nanocomposites. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 599-603	2.3	24
200	CdS/CdSe Co-Sensitized Solar Cell Prepared by Jointly Using Successive Ion Layer Absorption and Reaction Method and Chemical Bath Deposition Process. <i>Science of Advanced Materials</i> , <b>2012</b> , 4, 1013-1017	10.7	24
199	3D printing-based cellular microelectrodes for high-performance asymmetric quasi-solid-state micro-pseudocapacitors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1749-1756	13	24
198	Electrospun Ta-doped TiO <sub>2</sub> /C nanofibers as a high-capacity and long-cycling anode material for Li-ion and K-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20666-20676	13	24
197	Macroporous Nanostructured Nb <sub>2</sub> O <sub>5</sub> with Surface Nb <sup>4+</sup> for Enhanced Lithium Ion Storage Properties. <i>ChemNanoMat</i> , <b>2016</b> , 2, 675-680	3.5	24
196	Integrated plasmonic and upconversion starlike Y <sub>2</sub> O <sub>3</sub> :Er/Au@TiO <sub>2</sub> composite for enhanced photon harvesting in dye-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2016</b> , 316, 207-214	8.9	24

- 195 Enhancing sodium-ion storage performance of MoO<sub>2</sub>/N-doped carbon through interfacial Mo-N-C bond. *Science China Materials*, **2021**, 64, 85-95 7.1 24
- 194 Understanding the electrochemical potential and diffusivity of MnO/C nanocomposites at various charge/discharge states. *Journal of Materials Chemistry A*, **2019**, 7, 7831-7842 13 23
- 193 Comparison of surface and bulk nitrogen modification in highly porous carbon for enhanced supercapacitors. *Science China Materials*, **2015**, 58, 521-533 7.1 23
- 192 Fabrication of hybrid Co<sub>3</sub>O<sub>4</sub>/NiCo<sub>2</sub>O<sub>4</sub> nanosheets sandwiched by nanoneedles for high-performance supercapacitors using a novel electrochemical ion exchange. *Science China Materials*, **2017**, 60, 1168-1178 7.1 23
- 191 Hexamethylenetetramine-mediated growth of grain-boundary-passivation CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> for highly reproducible and stable perovskite solar cells. *Journal of Power Sources*, **2018**, 377, 103-109 8.9 23
- 190 Novel synthesis of V<sub>2</sub>O<sub>5</sub> hollow microspheres for lithium ion batteries. *Science China Materials*, **2016**, 59, 567-573 7.1 23
- 189 Correlation between the in-plane substrate strain and electrocatalytic activity of strontium ruthenate thin films in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 10794-10800 13 23
- 188 Carbon fabric supported 3D cobalt oxides/hydroxide nanosheet network as cathode for flexible all-solid-state asymmetric supercapacitor. *Dalton Transactions*, **2018**, 47, 11503-11511 4.3 23
- 187 A ZnO nanorod/nanoparticle hierarchical structure synthesized through a facile in situ method for dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 4765-4770 13 23
- 186 Facile fabrication of interconnected-mesoporous T-Nb<sub>2</sub>O<sub>5</sub> nanofibers as anodes for lithium-ion batteries. *Science China Materials*, **2019**, 62, 465-473 7.1 23
- 185 Sodium vanadate/PEDOT nanocables rich with oxygen vacancies for high energy conversion efficiency zinc ion batteries. *Energy Storage Materials*, **2021**, 40, 209-218 19.4 23
- 184 Elucidating the Role of Defects for Electrochemical Intercalation in Sodium Vanadium Oxide. *Chemistry of Materials*, **2015**, 27, 7082-7090 9.6 22
- 183 Porous graphite: A facile synthesis from ferrous gluconate and excellent performance as anode electrocatalyst of microbial fuel cell. *Biosensors and Bioelectronics*, **2018**, 109, 116-122 11.8 22
- 182 Correlating electrocatalytic oxygen reduction activity with d-band centers of metallic nanoparticles. *Energy Storage Materials*, **2018**, 13, 189-198 19.4 22
- 181 Improved rate performance of Prussian blue cathode materials for sodium ion batteries induced by ion-conductive solid-electrolyte interphase layer. *Journal of Power Sources*, **2018**, 399, 42-48 8.9 22
- 180 A ZnO nanorod layer with a superior light-scattering effect for dye-sensitized solar cells. *RSC Advances*, **2013**, 3, 18537 3.7 22
- 179 CuInSe Quantum Dots Hybrid Hole Transfer Layer for Halide Perovskite Photodetectors. *ACS Applied Materials & Interfaces*, **2018**, 10, 35656-35663 9.5 22
- 178 Mesoporous Carbon Nanofibers Embedded with MoS<sub>2</sub> Nanocrystals for Extraordinary Li-Ion Storage. *Chemistry - A European Journal*, **2015**, 21, 18248-57 4.8 21

177	Switchable Perovskite Photovoltaic Sensors for Bioinspired Adaptive Machine Vision. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000122	6	21
176	Impact of sol aging on TiO <sub>2</sub> compact layer and photovoltaic performance of perovskite solar cell. <i>Science China Materials</i> , <b>2016</b> , 59, 710-718	7.1	21
175	Impact of lithium excess on the structural and electrochemical properties of the LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> high-voltage cathode material. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20103-20107	13	20
174	AuAg alloy nanoparticles with tunable cavity for plasmon-enhanced photocatalytic H <sub>2</sub> evolution. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 49, 1-7	12	20
173	Ultrathin ALD coating on TiO <sub>2</sub> photoanodes with enhanced quantum dot loading and charge collection in quantum dots sensitized solar cells. <i>Science China Materials</i> , <b>2016</b> , 59, 833-841	7.1	20
172	Impacts of Reduced Graphene Oxide in CdS/CdSe Quantum Dots Co-sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 18430-18438	3.8	20
171	Formation mechanism and optical characterization of polymorphic silicon nanostructures by DC arc-discharge. <i>RSC Advances</i> , <b>2015</b> , 5, 68714-68721	3.7	20
170	Nanoporous scaffold with immobilized enzymes during flow-induced gelation for sensitive H <sub>2</sub> O(2) biosensing. <i>Advanced Materials</i> , <b>2010</b> , 22, 2809-13	24	20
169	Doping effects in nanostructured cadmium tungstate scintillation films. <i>Journal of Luminescence</i> , <b>2006</b> , 121, 527-534	3.8	20
168	Wire-in-Wire TiO <sub>2</sub> /C Nanofibers Free-Standing Anodes for Li-Ion and K-Ion Batteries with Long Cycling Stability and High Capacity. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 107	19.5	20
167	In situ formation of porous graphitic carbon wrapped MnO/Ni microsphere networks as binder-free anodes for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12316-12322	13	20
166	Nanoporous carbon leading to the high performance of a Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F@carbon/graphene cathode in a sodium ion battery. <i>CrystEngComm</i> , <b>2017</b> , 19, 4287-4293	3.3	19
165	Highly effective fabrication of two dimensional metal oxides as high performance lithium storage anodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3924-3932	13	19
164	A cross-like hierarchical porous lithium-rich layered oxide with (110)-oriented crystal planes as a high energy density cathode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13120-13129	13	19
163	Microbelt-void-microbelt-structured SnO <sub>2</sub> @C as an advanced electrode with outstanding rate capability and high reversibility. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10523-10533	13	19
162	Nanosulfonated silica incorporated SPEEK/SPVdF-HFP polymer blend membrane for PEM fuel cell application. <i>Ionics</i> , <b>2020</b> , 26, 3447-3458	2.7	19
161	Tailoring nanostructured transition metal phosphides for high-performance hybrid supercapacitors. <i>Nano Today</i> , <b>2021</b> , 38, 101201	17.9	19
160	Significant Stability Enhancement of Perovskite Solar Cells by Facile Adhesive Encapsulation. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 25260-25267	3.8	19

- 159 A flexible self-charged power panel for harvesting and storing solar and mechanical energy. *Nano Energy*, **2019**, 65, 104082 17.1 18
- 158 Chemically anchored NiOx/carbon composite fibers for Li-ion batteries with long cycle-life and enhanced capacity. *RSC Advances*, **2015**, 5, 26521-26529 3.7 18
- 157 Carbon wrapped hierarchical Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> microspheres for high performance lithium ion batteries. *Scientific Reports*, **2016**, 6, 33682 4.9 18
- 156 A facile method for the synthesis of the Li(0.3)La(0.57)TiO<sub>3</sub> solid state electrolyte. *Chemical Communications*, **2014**, 50, 5593-6 5.8 18
- 155 Growth of single-crystalline rutile TiO<sub>2</sub> nanorods on fluorine-doped tin oxide glass for organic/inorganic hybrid solar cells. *Journal of Materials Science: Materials in Electronics*, **2012**, 23, 1657-1663 2.1 18
- 154 Synthesis of Highly Porous Organic/Inorganic Hybrids by Ambient Pressure Sol-Gel Processing. *Journal of Sol-Gel Science and Technology*, **1998**, 13, 305-309 2.3 18
- 153 Insights into the endurance promotion of PtSn/CNT catalysts by thermal annealing for ethanol electro-oxidation. *Electrochimica Acta*, **2016**, 213, 578-586 6.7 18
- 152 Dual interface coupled molybdenum diselenide for high-performance sodium ion batteries and capacitors. *Journal of Power Sources*, **2020**, 446, 227298 8.9 18
- 151 Interphases, Interfaces, and Surfaces of Active Materials in Rechargeable Batteries and Perovskite Solar Cells. *Advanced Materials*, **2021**, 33, e1905245 24 18
- 150 Bimetallic organic framework derivation of three-dimensional and heterogeneous metal selenides/carbon composites as advanced anodes for lithium-ion batteries. *Nanoscale*, **2020**, 12, 12623-12631 7.7 17
- 149 Nickel induced electronic structural regulation of cobalt hydroxide for enhanced water oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 6699-6708 13 17
- 148 Twin-nanoplate assembled hierarchical Ni/MnO porous microspheres as advanced anode materials for lithium-ion batteries. *Electrochimica Acta*, **2018**, 259, 419-426 6.7 17
- 147 Highly dispersed Co-Mo sulfide nanoparticles on reduced graphene oxide for lithium and sodium ion storage. *Nano Research*, **2020**, 13, 188-195 10 17
- 146 Enhancing the Rate Performance of a Li<sub>3</sub>VO<sub>4</sub> Anode through Cu Doping. *ChemElectroChem*, **2018**, 5, 478-482 4.3 17
- 145 High-performance Si/organic hybrid solar cells using a novel cone-shaped Si nanoholes structures and back surface passivation layer. *Nano Energy*, **2017**, 41, 519-526 17.1 16
- 144 Towards a durable high performance anode material for lithium storage: stabilizing N-doped carbon encapsulated FeS nanosheets with amorphous TiO<sub>2</sub>. *Journal of Materials Chemistry A*, **2019**, 7, 16541-16552 13 16
- 143 A low cost, disposable cable-shaped Al<sub>2</sub>O<sub>3</sub> battery for portable biosensors. *Journal of Micromechanics and Microengineering*, **2016**, 26, 055011 2 16
- 142 Silica modification of titania nanoparticles for a dye-sensitized solar cell. *Electrochimica Acta*, **2012**, 59, 32-38 6.7 16

141	Sulfur-Rich (NH)MoS as a Highly Reversible Anode for Sodium/Potassium-Ion Batteries. <i>ACS Nano</i> , <b>2020</b> , 14, 9626-9636	16.7	16
140	Novel MnO <sub>2</sub> /cobalt composites nanosheets array as efficient anode for asymmetric supercapacitor. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 39-46	6.7	16
139	Artificial interface stabilized LiNi <sub>0.80</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> @Polysiloxane cathode for stable cycling lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 471, 228480	8.9	15
138	Three-Dimensional Self-assembled Hairball-Like VS as High-Capacity Anodes for Sodium-Ion Batteries. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 39	19.5	15
137	Enhanced Electron Collection in Perovskite Solar Cells Employing Thermoelectric NaCoO <sub>3</sub> /TiO <sub>2</sub> Coaxial Nanofibers. <i>Small</i> , <b>2016</b> , 12, 5146-5152	11	15
136	Bimetallic phosphides embedded in hierarchical P-doped carbon for sodium ion battery and hydrogen evolution reaction applications. <i>Science China Materials</i> , <b>2019</b> , 62, 1857-1867	7.1	15
135	Template-free synthesis of Na <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> microspheres as cathode materials for lithium-ion batteries. <i>CrystEngComm</i> , <b>2015</b> , 17, 4774-4780	3.3	15
134	Atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> on V <sub>2</sub> O <sub>5</sub> xerogel film for enhanced lithium-ion intercalation stability. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2012</b> , 30, 01A123	2.9	15
133	Brightly photoluminescent phosphor materials based on silicon quantum dots with oxide shell passivation. <i>Optics Express</i> , <b>2012</b> , 20, A69-74	3.3	15
132	A Multifunctional Protein Coating for Self-Assembled Porous Nanostructured Electrodes. <i>ACS Omega</i> , <b>2017</b> , 2, 1679-1686	3.9	14
131	Unraveling the roles of mesoporous TiO <sub>2</sub> framework in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Science China Materials</i> , <b>2020</b> , 63, 1151-1162	7.1	14
130	Tailoring SPEEK/SPVdF-co-HFP/La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Ternary Composite Membrane for Cation Exchange Membrane Fuel Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 4881-4894	3.9	14
129	Controlled crystallinity and morphologies of 2D Ruddlesden-Popper perovskite films grown without anti-solvent for solar cells. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124959	14.7	14
128	A new anode material for high performance lithium-ion batteries: V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9789-9796	13	14
127	Microwave dielectric properties of B and N co-doped SiC nanopowders prepared by combustion synthesis. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 1039-1043	5.7	14
126	Nearly monodisperse PbS quantum dots for highly efficient solar cells: an in situ seeded ion exchange approach. <i>Chemical Communications</i> , <b>2018</b> , 54, 12598-12601	5.8	14
125	Laser-induced surface acoustic waves: An alternative method to nanoindentation for the mechanical characterization of porous nanostructured thin film electrode media. <i>Mechanics of Materials</i> , <b>2015</b> , 91, 333-342	3.3	13
124	Amorphous VPO <sub>4</sub> /C with the enhanced performances as an anode for lithium ion batteries. <i>Journal of Materials</i> , <b>2016</b> , 2, 350-357	6.7	13

123	Salami-like Electrospun Si Nanoparticle-ITO Composite Nanofibers with Internal Conductive Pathways for use as Anodes for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27234-41	9.5	13
122	Properties of mesoporous carbon modified carbon felt for anode of all-vanadium redox flow battery. <i>Science China Materials</i> , <b>2016</b> , 59, 1037-1050	7.1	13
121	Sodium ion storage performance and mechanism in orthorhombic V <sub>2</sub> O <sub>5</sub> single-crystalline nanowires. <i>Science China Materials</i> , <b>2021</b> , 64, 557-570	7.1	13
120	Revealing the impacts of metastable structure on the electrochemical properties: The case of MnS. <i>Journal of Power Sources</i> , <b>2019</b> , 431, 75-83	8.9	12
119	Enhanced-performance of self-powered flexible quantum dot photodetectors by a double hole transport layer structure. <i>Nanoscale</i> , <b>2019</b> , 11, 9626-9632	7.7	12
118	Flexible all-solid-state ultrahigh-energy asymmetric supercapacitors based on tailored morphology of NiCoO <sub>2</sub> /Ni(OH) <sub>2</sub> /Co(OH) <sub>2</sub> electrodes. <i>CrystEngComm</i> , <b>2018</b> , 20, 6519-6528	3.3	12
117	Rational design of the pea-pod structure of SiO <sub>x</sub> /C nanofibers as a high-performance anode for lithium ion batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 1762-1769	6.8	11
116	Scalable nano-particle assembly by efficient light-induced concentration and fusion. <i>Optics Express</i> , <b>2008</b> , 16, 17276-81	3.3	11
115	Template-Based Growth of Oxide Nanorod Arrays by Centrifugation. <i>Journal of Sol-Gel Science and Technology</i> , <b>2005</b> , 33, 193-200	2.3	11
114	Cross-Linked SPEEK/PEG/PAPEOS-Modified CaTiO <sub>3</sub> Perovskites for Efficient Acid-Base Cation-Exchange Membrane Fuel Cell. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 10087-10099	4.1	11
113	Polypyrrole coated MnO nanosheet arrays as a highly stable lithium-ion-storage anode. <i>Dalton Transactions</i> , <b>2020</b> , 49, 7903-7913	4.3	10
112	3D printed cellular cathodes with hierarchical pores and high mass loading for LiBeS <sub>2</sub> battery. <i>Electrochimica Acta</i> , <b>2020</b> , 349, 136331	6.7	10
111	The -NH Group Induced Formation of 3D Co(OH) Curly Nanosheet Aggregates as Efficient Oxygen Evolution Electrocatalysts. <i>Small</i> , <b>2020</b> , 16, e2001973	11	10
110	Ag/Ag <sub>2</sub> O <sub>8</sub> V <sub>2</sub> O <sub>5</sub> ·nH <sub>2</sub> O composite films as host materials for Li <sup>+</sup> intercalation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, R79-R81	1.6	10
109	Resistive Switching in Nonperovskite-Phase CsPbI <sub>3</sub> Film-Based Memory Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9409-9420	9.5	10
108	Tailoring Pore Structures of 3D Printed Cellular High-Loading Cathodes for Advanced Rechargeable Zinc-Ion Batteries. <i>Small</i> , <b>2021</b> , 17, e2100746	11	10
107	Amorphous NiWO <sub>4</sub> Nanospheres with High-Conductivity and -Capacitive Performance for Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 30067-30076	3.8	10
106	Direct Ink Writing of Li Al Ti (PO <sub>4</sub> ) <sub>3</sub> -Based Solid-State Electrolytes with Customized Shapes and Remarkable Electrochemical Behaviors. <i>Small</i> , <b>2021</b> , 17, e2002866	11	10



105	Hierarchical ZnO microspheres photoelectrodes assembled with Zn chalcogenide passivation layer for high efficiency quantum dot sensitized solar cells. <i>Journal of Power Sources</i> , <b>2018</b> , 401, 255-262	8.9	10
104	Impacts of Mn ion in ZnSe passivation on electronic band structure for high efficiency CdS/CdSe quantum dot solar cells. <i>Dalton Transactions</i> , <b>2018</b> , 47, 9634-9642	4.3	10
103	Rational synthesis of SnS <sub>2</sub> @C hollow microspheres with superior stability for lithium-ion batteries. <i>Science China Materials</i> , <b>2017</b> , 60, 955-962	7.1	9
102	A High-Voltage Hybrid Solid Electrolyte Based on Polycaprolactone for High-Performance all-Solid-State Flexible Lithium Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2318-2326	6.1	9
101	Formation of Sn <sub>M</sub> (M=Fe, Al, Ni) alloy nanoparticles by DC arc-discharge and their electrochemical properties as anodes for Li-ion batteries. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 242, 127-135	3.3	9
100	Morphological and structural evolution of Si-Cu nanocomposites by an instantaneous vapor-liquid-solid growth and the electrochemical lithiation/delithiation performances. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 735-748	2.6	9
99	Electrophoretic Deposition of Titanium Oxide Nanoparticle Films for Dye-Sensitized Solar Cell Applications. <i>Materials Sciences and Applications</i> , <b>2011</b> , 02, 1427-1431	0.3	8
98	Hollow hemispherical titanium dioxide aggregates fabricated by coaxial electrospray for dye-sensitized solar cell application. <i>Journal of Nanophotonics</i> , <b>2012</b> , 6, 063519-1	1.1	8
97	Increase of power conversion efficiency in dye-sensitized solar cells through ferroelectric substrate induced charge transport enhancement. <i>Scientific Reports</i> , <b>2018</b> , 8, 17389	4.9	8
96	Surface-defect passivation through complexation with organic molecules leads to enhanced power conversion efficiency and long term stability of perovskite photovoltaics. <i>Science China Materials</i> , <b>2020</b> , 63, 479-480	7.1	7
95	Fabrication of tunable aluminum nanodisk arrays via a self-assembly nanoparticle template method and their applications for performance enhancement in organic photovoltaics. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3649-3658	13	7
94	Low Temperature Synthesis of Large-Size Anatase TiO Nanosheets with Enhanced Photocatalytic Activities. <i>Small</i> , <b>2017</b> , 13, 1701964	11	7
93	Melamine-assisted synthesis of ultrafine Mo <sub>2</sub> C/Mo <sub>2</sub> N@N-doped carbon nanofibers for enhanced alkaline hydrogen evolution reaction activity. <i>Science China Materials</i> , <b>2021</b> , 64, 1150-1158	7.1	7
92	In Situ Defect Induction in Close-Packed Lattice Plane for the Efficient Zinc Ion Storage. <i>Small</i> , <b>2021</b> , 17, e2101944	11	7
91	A universal strategy towards 3D printable nanomaterial inks for superior cellular high-loading battery electrodes. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16086-16092	13	7
90	Isotype Heterojunction-Boosted CO Photoreduction to CO <sub>2</sub> . <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 74	19.5	7
89	The effect of nitrogen annealing on lithium ion intercalation in nickel-doped lithium trivanadate. <i>Science Bulletin</i> , <b>2016</b> , 61, 587-593	10.6	6
88	Doping boric acid into polyacrylonitrile fibers prior to drying process and the effects on stabilization. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 9452-9464	4.3	6

87	Sol-gel derived PZT films doped with vanadium pentoxide. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 2152-2154	5.4	6
86	Spinel $\text{LiMn}_2\text{Si}_x\text{O}_4$ ( <i>x</i> Science China Materials, <b>2016</b> , 59, 558-566	7.1	6
85	Effect of synthesis pH and EDTA on iron hexacyanoferrate for sodium-ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 2884-2891	5.8	5
84	Conduction Response in Highly Flexible Nonvolatile Memory Devices. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000151	6.4	5
83	A new polyacrylonitrile fiber for direct carbonization without oxidation. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 8232-8240	4.3	5
82	Mesoporous Carbon: $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries (Adv. Energy Mater. 6/2012). <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 699-699	21.8	5
81	Alumina and Hafnia ALD Layers for a Niobium-Doped Titanium Oxide Photoanode. <i>International Journal of Photoenergy</i> , <b>2012</b> , 2012, 1-6	2.1	5
80	Nickel-Doped Lithium Trivanadate Nanosheets Synthesized by Hydrothermal Synthesis as High Performance Cathode Materials for Lithium Ion Batteries. <i>Science of Advanced Materials</i> , <b>2016</b> , 8, 703-711	11.3	5
79	Constructing Heterostructured Bimetallic Selenides on an N-Doped Carbon Nanoframework as Anodes for Ultrastable Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	5
78	Dual-Constrained Sulfur in $\text{FeS}_2@\text{C}$ Nanostructured Lithium-Sulfide Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10950-10960	6.1	5
77	Titanium dioxide nanowires modified tin oxide hollow spheres for dye-sensitized solar cells. <i>MRS Communications</i> , <b>2016</b> , 6, 226-233	2.7	5
76	Hierarchical Microspheres of Aggregated Silicon Nanoparticles with Nanometre Gaps as the Anode for Lithium-Ion Batteries with Excellent Cycling Stability. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1139-1148	4.3	5
75	Search for better materials for rechargeable electric energy storage. <i>National Science Review</i> , <b>2017</b> , 4, 16-16	10.8	4
74	Lead-free organic-inorganic halide perovskites grown with nontoxic solvents. <i>Science Bulletin</i> , <b>2017</b> , 62, 901-902	10.6	4
73	Energy Storage: A Phase-Separation Route to Synthesize Porous CNTs with Excellent Stability for $\text{Na}^+$ Storage (Small 22/2017). <i>Small</i> , <b>2017</b> , 13,	11	4
72	Hierarchical ZnO Microspheres Embedded in $\text{TiO}_2$ Photoanode for Enhanced CdS/CdSe Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1259-1265	6.1	4
71	Solvent-salt synergy offers a safe pathway towards next generation high voltage Li-ion batteries. <i>Science China Materials</i> , <b>2018</b> , 61, 1360-1362	7.1	4
70	Nanostructured materials for advanced Li-Ion rechargeable batteries. <i>IEEE Nanotechnology Magazine</i> , <b>2009</b> , 3, 14-20	1.7	4

69	The Role of Oxide Thin Layer in Inverted Structure Polymer Solar Cells. <i>Materials Sciences and Applications</i> , <b>2011</b> , 02, 1697-1701	0.3	4
68	Enhanced supercapacitive properties of hydrohausmannite by in-situ polymerization of polypyrrole. <i>Electrochimica Acta</i> , <b>2021</b> , 376, 137989	6.7	4
67	Oxygen-deficient TiO <sub>2</sub> Yolk-shell Spheres for Enhanced Lithium Storage Properties. <i>Energy and Environmental Materials</i> , <b>2021</b> ,	13	4
66	Na-Ion Batteries: A Confined Replacement Synthesis of Bismuth Nanodots in MOF Derived Carbon Arrays as Binder-Free Anodes for Sodium-Ion Batteries (Adv. Sci. 16/2019). <i>Advanced Science</i> , <b>2019</b> , 6, 1970098	13.6	3
65	Universal organic anodes enable safe low-cost aqueous rechargeable batteries with long cycle life, high capacity, and fast kinetics. <i>Science China Materials</i> , <b>2017</b> , 60, 789-791	7.1	3
64	Low-Temperature Processing of Titanium Oxide Nanoparticles Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Renewable Energy</i> , <b>2013</b> , 2013, 1-8	1.4	3
63	Faster Diffusion and Higher Lithium-Ion Intercalation Capacity in Pb-Jarosite than Na-Jarosite. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2248-2256	6.1	3
62	FUNDAMENTALS OF RECHARGEABLE BATTERIES AND ELECTROCHEMICAL POTENTIALS OF ELECTRODE MATERIALS <b>2018</b> , 397-451		3
61	Building Ultra-Stable and Low-Polarization Composite Zn Anode Interface via Hydrated Polyzwitterionic Electrolyte Construction.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 93	19.5	3
60	Photovoltaic performance of dye-sensitized solar cells using TiO <sub>2</sub> nanotubes aggregates produced by hydrothermal synthesis. <i>International Journal of Modern Physics B</i> , <b>2015</b> , 29, 1542050	1.1	2
59	Vacuum-Evaporated ZnO Photoanode, Applied in Quantum Dot-Sensitized Solar Cells (CdS-CdSe). <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800356	1.6	2
58	Nanostructured Materials for Hydrogen Storage <b>2013</b> , 259-275		2
57	SiO <sub>2</sub> /TiO <sub>2</sub> xerogels for tailoring the release of brilliant blue FCF. <i>Journal of Sol-Gel Science and Technology</i> , <b>2009</b> , 50, 301-307	2.3	2
56	Er <sup>3+</sup> Doped Silica Glass by Sol-Gel Processing with Organic Complexation. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 560, 133		2
55	Tunable engineering of photo- and electro-induced carrier dynamics in perovskite photoelectronic devices. <i>Science China Materials</i> , 1	7.1	2
54	NANOSTRUCTURED MATERIALS FOR HYDROGEN STORAGE. <i>Annual Review of Nano Research</i> , <b>2009</b> , 487-514		2
53	Switchable Perovskite Photovoltaic Sensors for Bioinspired Adaptive Machine Vision. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2070092	6	2
52	Impacts of fluorine in NASICON-type materials as cathodes for aqueous zinc ion batteries. <i>Energy Science and Engineering</i> , <b>2021</b> , 9, 938	3.4	2

51	Oxygen migration induced effective magnetic and resistive switching boosted by graphene quantum dots. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 863, 158339	5.7	2
50	Electrocatalytic oxygen reduction reaction activity of KOH etched carbon films as metal-free cathodic catalysts for fuel cells.. <i>RSC Advances</i> , <b>2019</b> , 9, 2803-2811	3.7	2
49	Oxygen vacancies enhance lithium-ion storage properties of TiO <sub>2</sub> hierarchical spheres. <i>Batteries and Supercaps</i> ,	5.6	2
48	Surface spinel and interface oxygen vacancies enhanced lithium-rich layered oxides with excellent electrochemical performances. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136434	14.7	2
47	Black TiO <sub>2</sub> Nanomaterials for Lithium-Ion Batteries <b>2017</b> , 249-273		1
46	Atomic level understanding of the nanoscale Kirkendall effect. <i>Science Bulletin</i> , <b>2017</b> , 62, 818-819	10.6	1
45	Non-volatile strain realized in the PNZST ceramics by K doping. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 742, 1-6	5.7	1
44	Hybrid rinse solvent processing highly flat perovskite films on planar substrate. <i>Electrochemistry Communications</i> , <b>2018</b> , 91, 71-74	5.1	1
43	Photocatalysis: Low Temperature Synthesis of Large-Size Anatase TiO <sub>2</sub> Nanosheets with Enhanced Photocatalytic Activities (Small 48/2017). <i>Small</i> , <b>2017</b> , 13, 1770255	11	1
42	Trapping and Rotation of Nanowires Assisted by Surface Plasmons. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2009</b> , 15, 1515-1520	3.8	1
41	Nanostructured ZnO Gas Sensors <b>2012</b> , 435-471		1
40	DYE-SENSITIZED SOLAR CELLS BASED ON NANO-STRUCTURED ZINC OXIDE. <i>Annual Review of Nano Research</i> , <b>2009</b> , 385-439		1
39	Optimizing nanostructure and constructing heterostructure via Mo/W incorporation to improve electrochemical properties of NiCoP for hybrid supercapacitors. <i>Science China Materials</i> , <b>2022</b> , 65, 1195	7.1	1
38	Enhanced ion transport behaviors in composite polymer electrolyte: the case of a looser chain folding structure. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 3226-3232	13	1
37	Ultrasensitive determination of intracellular hydrogen peroxide by equipping quantum dots with a sensing layer via self-passivation. <i>Nano Research</i> , 1	10	1
36	Photoluminescence Property of Lu <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> :Ce <sup>3+</sup> Powder for Scintillator. <i>Korean Journal of Materials Research</i> , <b>2016</b> , 26, 212-215	0.2	1
35	Luminescence and sensitivity enhancement of oxygen sensors through tuning the spectral overlap between luminescent dyes and SiO <sub>2</sub> @Ag nanoparticles. <i>Nano Select</i> ,	3.1	1
34	Macaroni-Like Blue-Gray Nb <sub>2</sub> O <sub>5</sub> Nanotubes for High-Reversible Lithium-Ion Storage. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100028	1.6	1

33	Ferroelectricity and Piezoelectricity of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> Nanotube Arrays: Implications for Functional Electronic Devices. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 1294-1304	5.6	1
32	Direct Electrochemical Storage of Solar Energy in C-Rich Polymeric Carbon Nitride Cell. <i>Advanced Energy and Sustainability Research</i> , 2100111	1.6	1
31	Sandwich assembly of sulfonated poly (ether sulfone) with sulfonated multiwalled carbon nanotubes as an efficient architecture for enhanced electrolyte performance in H <sub>2</sub> /O <sub>2</sub> fuel cells. <i>International Journal of Energy Research</i> ,	4.5	1
30	Oxygen-Vacancy-Rich NiMnZn-Layered Double Hydroxide Nanosheets Married with Mo <sub>2</sub> CT <sub>x</sub> MXene for High-Efficiency All-Solid-State Hybrid Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 3346-3358	6.1	1
29	Coherent V <sup>4+</sup> -rich V <sub>2</sub> O <sub>5</sub> /carbon aerogel nanocomposites for high performance supercapacitors. <i>Science China Materials</i> , 1	7.1	1
28	A High Power Density Solid Electrolyte Based on Polycaprolactone for High-Performance All-Solid-State Flexible Lithium Batteries. <i>Electrochimica Acta</i> , <b>2022</b> , 140624	6.7	1
27	Nanostructured ZnO Gas Sensors <b>2007</b> , 315-350		0
26	Cathode Materials for Rechargeable Aqueous Zn Batteries <b>2022</b> ,		0
25	Layered Cathode Materials: Precursors, Synthesis, Microstructure, Electrochemical Properties, and Battery Performance.. <i>Small</i> , <b>2022</b> , e2107697	11	0
24	Silica Nanoparticles Coated with Smaller Au Nanoparticles for the Enhancement of Optical Oxygen Sensing. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 14146-14152	5.6	0
23	In-situ constructing slow-release Li-Al-O interface layer for lithium metal batteries to enhance interface stability and suppress lithium dendrite growth. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136827	14.7	0
22	Microstructurally Composed Nanoparticle Assemblies as Electroactive Materials for Lithium-Ion Battery Electrodes. <i>Green Energy and Technology</i> , <b>2015</b> , 353-391	0.6	
21	Effects of doping aluminum chloride on stabilization and properties of polyacrylonitrile-based carbon fibers. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46902	2.9	
20	Nanostructured Materials for Hydrogen Storage 137-153		
19	Preparation and Electrochemical Application of Titania Nanotube Arrays <b>2012</b> , 679-715		
18	NANOSTRUCTURED CATHODE MATERIALS FOR ADVANCED LI-ION BATTERIES. <i>Annual Review of Nano Research</i> , <b>2008</b> , 545-591		
17	SOLUTION-BASED SYNTHESIS OF ORIENTED ONE-DIMENSIONAL NANOMATERIALS. <i>Annual Review of Nano Research</i> , <b>2008</b> , 287-343		
16	Effect of Pore Size on Dehydrogenation Temperature of Carbon Cryogel-Ammonia Borane Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1098, 1		

- 15 Chemical Modification on Hierarchically Structured ZnO Films for Energy Conversion Efficiency Enhancement of Dye-Sensitized Solar Cells. *Materials Research Society Symposia Proceedings*, **2008**, 1102, 1
- 14 Synthesis and Electrochemical Properties of InVO<sub>4</sub> Nanotube Arrays. *Materials Research Society Symposia Proceedings*, **2006**, 922, 1
- 13 Effect of Pore Morphology on the Electrochemical Properties of Electric Double Layer Carbon Cryogel Supercapacitors. *Materials Research Society Symposia Proceedings*, **2007**, 1056, 1
- 12 Modified Carbon Cryogel-Ammonia Borane Nanocomposites for Hydrogen Storage. *Materials Research Society Symposia Proceedings*, **2007**, 1042, 1
- 11 Solution Synthesis and Electrochemical Properties of V<sub>2</sub>O<sub>5</sub> Nanostructures. *Materials Research Society Symposia Proceedings*, **2004**, 835, K11.7.1
- 10 The Nano-Micro Interface. Bridging the Micro and Nano Worlds. Herausgegeben von Hans-Jörg Fecht und Matthias Werner.. *Angewandte Chemie*, **2005**, 117, 3581-3582 3.6
- 9 Growth and Electrochemical Properties of V<sub>2</sub>O<sub>5</sub> Nanotube Arrays. *Materials Research Society Symposia Proceedings*, **2005**, 879, 1
- 8 Growth and Characterization of [001] ZnO Nanorod Array on ITO Substrate with Electric Field Assisted Nucleation. *Materials Research Society Symposia Proceedings*, **2005**, 879, 1
- 7 Design and Control of Nanostructures and Interfaces for Excitonic Solar Cells. *Engineering Materials and Processes*, **2017**, 635-679
- 6 Nanostructured Cathode Buffer Layers for Inverted Polymer Solar Cells. *Nanoscience and Technology*, **2016**, 95-158 0.6
- 5 REVITALIZED INTEREST IN VANADIUM PENTOXIDE AS CATHODE MATERIAL FOR ALKALI-ION BATTERIES **2018**, 453-580
- 4 TIN-BASED COMPOUNDS AS ANODE MATERIALS FOR LITHIUM-ION STORAGE **2018**, 581-638
- 3 BEYOND LI ION: ELECTRODE MATERIALS FOR SODIUM AND MAGNESIUM-ION BATTERIES **2018**, 639-755
- 2 Engineering hydrated vanadium oxide by K<sup>+</sup> and Ni<sup>2+</sup> incorporation for aqueous zinc ion batteries. *Materials Chemistry and Physics*, **2022**, 287, 126358 4.4
- 1 Stability and Kinetics Enhancement of Hydrated Vanadium Oxide via Sodium-ion Pre-intercalation. *Materials Today Energy*, **2022**, 101063 7