

Qing Wang

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296
papers

19,866
citations

71
h-index

133
g-index

314
ext. papers

22,777
ext. citations

10.2
avg, IF

7.11
L-index

#	Paper	IF	Citations
296	Electrochemical impedance spectroscopic analysis of dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14945-53	3.4	1732
295	Flexible high-temperature dielectric materials from polymer nanocomposites. <i>Nature</i> , 2015 , 523, 576-9	50.4	1017
294	Characteristics of high efficiency dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25210-21	3.4	965
293	Highly Efficient Dye-Sensitized Solar Cells Based on Carbon Black Counter Electrodes. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A2255	3.9	782
292	Highly Efficient Porphyrin Sensitizers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11760-11762	3.8	651
291	Monodispersed hard carbon spherules with uniform nanopores. <i>Carbon</i> , 2001 , 39, 2211-2214	10.4	572
290	Solution-processed ferroelectric terpolymer nanocomposites with high breakdown strength and energy density utilizing boron nitride nanosheets. <i>Energy and Environmental Science</i> , 2015 , 8, 922-931	35.4	415
289	Efficient light harvesting by using green Zn-porphyrin-sensitized nanocrystalline TiO ₂ films. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15397-409	3.4	405
288	Polymer nanocomposites for electrical energy storage. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 1421-1429	2.6	395
287	High-Temperature Dielectric Materials for Electrical Energy Storage. <i>Annual Review of Materials Research</i> , 2018 , 48, 219-243	12.8	304
286	High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture. <i>Advanced Functional Materials</i> , 2017 , 27, 1606292	15.6	232
285	Sandwich-structured polymer nanocomposites with high energy density and great charge-discharge efficiency at elevated temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9995-10000	11.5	227
284	Carrier generation and collection in CdS/CdSe-sensitized SnO ₂ solar cells exhibiting unprecedented photocurrent densities. <i>ACS Nano</i> , 2011 , 5, 3172-81	16.7	226
283	Large-scale Synthesis of Urchin-like Mesoporous TiO ₂ Hollow Spheres by Targeted Etching and Their Photoelectrochemical Properties. <i>Advanced Functional Materials</i> , 2014 , 24, 95-104	15.6	189
282	Novel spherical microporous carbon as anode material for Li-ion batteries. <i>Solid State Ionics</i> , 2002 , 152-153, 43-50	3.3	185
281	Efficient green-blue-light-emitting cationic iridium complex for light-emitting electrochemical cells. <i>Inorganic Chemistry</i> , 2006 , 45, 9245-50	5.1	183
280	Enhancement of the Performance of Dye-Sensitized Solar Cell by Formation of Shallow Transport Levels under Visible Light Illumination. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7084-7092	3.8	174

279	Compositional tailoring effect on electric field distribution for significantly enhanced breakdown strength and restrained conductive loss in sandwich-structured ceramic/polymer nanocomposites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4710-4718	13	167
278	Plasmon-enhanced light harvesting: applications in enhanced photocatalysis, photodynamic therapy and photovoltaics. <i>RSC Advances</i> , 2015 , 5, 29076-29097	3.7	163
277	TiO ₂ coated Au/Ag nanorods with enhanced photocatalytic activity under visible light irradiation. <i>Nanoscale</i> , 2013 , 5, 4236-41	7.7	163
276	Ultrahigh electric displacement and energy density in gradient layer-structured BaTiO ₃ /PVDF nanocomposites with an interfacial barrier effect. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10849-10855 ¹³	13	156
275	High-Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable High-Temperature Dielectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1701864	24	153
274	Influence of Lithium Ion Concentration on Electron Injection, Transport, and Recombination in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1715-1724	3.8	152
273	Encapsulation-free hybrid organic-inorganic light-emitting diodes. <i>Applied Physics Letters</i> , 2006 , 89, 1835-1839	10	149
272	Nanosized SnSb Alloy Pinning on Hard Non-Graphitic Carbon Spherules as Anode Materials for a Li Ion Battery. <i>Chemistry of Materials</i> , 2002 , 14, 103-108	9.6	146
271	A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, e1805672	24	145
270	High-energy density nonaqueous all redox flow lithium battery enabled with a polymeric membrane. <i>Science Advances</i> , 2015 , 1, e1500886	14.3	144
269	Nano-alloy anode for lithium ion batteries. <i>Solid State Ionics</i> , 2002 , 148, 247-258	3.3	139
268	High-Energy Storage Performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.68} Sn _{0.24} Ti _{0.08})O ₃ Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1175-1181	3.8	137
267	Reversible chemical delithiation/lithiation of LiFePO ₄ : towards a redox flow lithium-ion battery. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1793-7	3.6	133
266	CdSe-sensitized mesoscopic TiO ₂ solar cells exhibiting >5% efficiency: redundancy of CdS buffer layer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16235		132
265	Scalable synthesis of urchin- and flowerlike hierarchical NiO microspheres and their electrochemical property for lithium storage. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6292-9	9.5	132
264	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. <i>ACS Nano</i> , 2015 , 9, 7164-74	16.7	131
263	Cobalt Redox Mediators for Ruthenium-Based Dye-Sensitized Solar Cells: A Combined Impedance Spectroscopy and Near-IR Transmittance Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18847-18855 ^{3.8}	3.8	130
262	A Hybrid Material Approach Toward Solution-Processable Dielectrics Exhibiting Enhanced Breakdown Strength and High Energy Density. <i>Advanced Functional Materials</i> , 2015 , 25, 3505-3513	15.6	129

261	Pseudocapacitive Lithium-Ion Storage in Oriented Anatase TiO ₂ Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11895-11899	3.8	124
260	Flexible three-dimensional interconnected piezoelectric ceramic foam based composites for highly efficient concurrent mechanical and thermal energy harvesting. <i>Energy and Environmental Science</i> , 2018 , 11, 2046-2056	35.4	122
259	Scalable Polymer Nanocomposites with Record High-Temperature Capacitive Performance Enabled by Rationally Designed Nanostructured Inorganic Fillers. <i>Advanced Materials</i> , 2019 , 31, e1900875	24	120
258	DFT-INDO/S modeling of new high molar extinction coefficient charge-transfer sensitizers for solar cell applications. <i>Inorganic Chemistry</i> , 2006 , 45, 787-97	5.1	118
257	Highly Stretchable Polymer Composite with Strain-Enhanced Electromagnetic Interference Shielding Effectiveness. <i>Advanced Materials</i> , 2020 , 32, e1907499	24	117
256	Ultrathin mixed matrix membranes containing two-dimensional metal-organic framework nanosheets for efficient CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2017 , 539, 213-223	9.6	116
255	Redox Species of Redox Flow Batteries: A Review. <i>Molecules</i> , 2015 , 20, 20499-517	4.8	114
254	Effects of Polymorphism and Crystallite Size on Dipole Reorientation in Poly(vinylidene fluoride) and Its Random Copolymers. <i>Macromolecules</i> , 2010 , 43, 6739-6748	5.5	114
253	Ferroelectric polymers exhibiting behaviour reminiscent of a morphotropic phase boundary. <i>Nature</i> , 2018 , 562, 96-100	50.4	112
252	Tuning Nanofillers in In Situ Prepared Polyimide Nanocomposites for High-Temperature Capacitive Energy Storage. <i>Advanced Energy Materials</i> , 2020 , 10, 1903881	21.8	108
251	Multilayered hierarchical polymer composites for high energy density capacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2965-2980	13	107
250	Confinement-Induced High-Field Antiferroelectric-like Behavior in a Poly(vinylidene fluoride-co-trifluoroethylene-co-chlorotrifluoroethylene)-graft-polystyrene Graft Copolymer. <i>Macromolecules</i> , 2011 , 44, 2190-2199	5.5	107
249	Anatase and rutile in evonik aerioxide P25: Heterojunctioned or individual nanoparticles?. <i>Catalysis Today</i> , 2018 , 300, 12-17	5.3	105
248	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. <i>Nature Nanotechnology</i> , 2019 , 14, 151-155	28.7	104
247	High-Performance Solid-State Organic Dye Sensitized Solar Cells with P3HT as Hole Transporter. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7038-7043	3.8	103
246	Three-channel transmission line impedance model for mesoscopic oxide electrodes functionalized with a conductive coating. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11284-90	3.4	99
245	Nanostructured Ferroelectric-Polymer Composites for Capacitive Energy Storage. <i>Small Methods</i> , 2018 , 2, 1700399	12.8	98
244	Dual redox catalysts for oxygen reduction and evolution reactions: towards a redox flow Li-O ₂ battery. <i>Chemical Communications</i> , 2015 , 51, 9451-4	5.8	97

243	Molecular wiring of nanocrystals: NCS-enhanced cross-surface charge transfer in self-assembled Ru-complex monolayer on mesoscopic oxide films. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4446-52	16.4	95
242	Next-Generation, High-Energy-Density Redox Flow Batteries. <i>ChemPlusChem</i> , 2015 , 80, 312-322	2.8	94
241	Zn-porphyrin-sensitized nanocrystalline TiO ₂ heterojunction photovoltaic cells. <i>ChemPhysChem</i> , 2005 , 6, 1253-8	3.2	92
240	A redox flow lithium battery based on the redox targeting reactions between LiFePO ₄ and iodide. <i>Energy and Environmental Science</i> , 2016 , 9, 917-921	35.4	90
239	Proton enhanced dynamic battery chemistry for aprotic lithium-oxygen batteries. <i>Nature Communications</i> , 2017 , 8, 14308	17.4	88
238	Graphene on SiC as a Q-switcher for a 2 μm laser. <i>Optics Letters</i> , 2012 , 37, 395-7	3	88
237	Dielectric characteristics of poly(ether ketone ketone) for high temperature capacitive energy storage. <i>Applied Physics Letters</i> , 2009 , 95, 022902	3.4	85
236	Redox-Mediated ORR and OER Reactions: Redox Flow Lithium Oxygen Batteries Enabled with a Pair of Soluble Redox Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 6191-6197	13.1	82
235	Crosslinked fluoropolymers exhibiting superior high-temperature energy density and charge/discharge efficiency. <i>Energy and Environmental Science</i> , 2020 , 13, 1279-1286	35.4	81
234	Toward Wearable Cooling Devices: Highly Flexible Electrocaloric Ba _{0.67} Sr _{0.33} TiO ₃ Nanowire Arrays. <i>Advanced Materials</i> , 2016 , 28, 4811-6	24	80
233	Dye-sensitized solar cells incorporating a "liquid" hole-transporting material. <i>Nano Letters</i> , 2006 , 6, 2000-2003	13.5	79
232	Dielectric materials for high-temperature capacitors. <i>IET Nanodielectrics</i> , 2018 , 1, 32-40	2.8	79
231	Reliable Determination of Electron Diffusion Length and Charge Separation Efficiency in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14665-14674	3.8	78
230	Multifunctional hydrogel enables extremely simplified electrochromic devices for smart windows and ionic writing boards. <i>Materials Horizons</i> , 2018 , 5, 1000-1007	14.4	75
229	Constructing ordered sensitized heterojunctions: bottom-up electrochemical synthesis of p-type semiconductors in oriented n-TiO ₂ nanotube arrays. <i>Nano Letters</i> , 2009 , 9, 806-13	11.5	75
228	Lithium storage in polymerized carbon nitride nanobells. <i>Applied Physics Letters</i> , 2001 , 79, 3500-3502	3.4	73
227	Electrical Storage in Poly(vinylidene fluoride) based Ferroelectric Polymers: Correlating Polymer Structure to Electrical Breakdown Strength. <i>Chemistry of Materials</i> , 2008 , 20, 2078-2080	9.6	72
226	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer/graphene percolative composites. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7034	7.1	71

225	Mesoporous SnO ₂ Spheres Synthesized by Electrochemical Anodization and Their Application in CdSe-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21878-21884	3.8	70
224	Cross surface ambipolar charge percolation in molecular triads on mesoscopic oxide films. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5706-13	16.4	69
223	Redox Targeting of Anatase TiO ₂ for Redox Flow Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1400567	21.8	68
222	Redox-Targeting-Based Flow Batteries for Large-Scale Energy Storage. <i>Advanced Materials</i> , 2018 , 30, e1802406	24	67
221	Solution-Processed Self-Powered Transparent Ultraviolet Photodetectors with Ultrafast Response Speed for High-Performance Communication System. <i>Advanced Functional Materials</i> , 2019 , 29, 1809013	15.6	67
220	Efficiency Limitations in Dye-Sensitized Solar Cells Caused by Inefficient Sensitizer Regeneration. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15109-15120	3.8	65
219	Bioinspired elastic piezoelectric composites for high-performance mechanical energy harvesting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14546-14552	13	65
218	Synthesis of monodispersed SnO ₂ @C composite hollow spheres for lithium ion battery anode applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17448		63
217	A benzothiadiazole-cyclopentadithiophene [corrected] bridged D-A- π A sensitizer with enhanced light absorption for high efficiency dye-sensitized solar cells. <i>Chemical Communications</i> , 2014 , 50, 3965-8	5.8	62
216	A class of liquid anode for rechargeable batteries with ultralong cycle life. <i>Nature Communications</i> , 2017 , 8, 14629	17.4	61
215	An organic redox mediator for dye-sensitized solar cells with near unity quantum efficiency. <i>Energy and Environmental Science</i> , 2011 , 4, 564-571	35.4	61
214	Redox targeting of insulating electrode materials: a new approach to high-energy-density batteries. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 8197-200	16.4	61
213	The Influence of TiO ₂ Particle Size in TiO ₂ /CuInS ₂ Nanocomposite Solar Cells. <i>Advanced Functional Materials</i> , 2006 , 16, 1566-1576	15.6	61
212	Ultrahigh discharge efficiency and energy density achieved at low electric fields in sandwich-structured polymer films containing dielectric elastomers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3729-3736	13	60
211	Determination of Chemical Diffusion Coefficient of Lithium Ion in Graphitized Mesocarbon Microbeads with Potential Relaxation Technique. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A737	3.9	59
210	Self-Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. <i>Advanced Functional Materials</i> , 2016 , 26, 3524-3531	15.6	59
209	Cuprous sulfide counter electrodes prepared by ion exchange for high-efficiency quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2807	13	58
208	Molecular wiring of insulators: charging and discharging electrode materials for high-energy lithium-ion batteries by molecular charge transport layers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3163-7	16.4	57

207	Ternary polymer nanocomposites with concurrently enhanced dielectric constant and breakdown strength for high-temperature electrostatic capacitors. <i>Information Materials</i> , 2020 , 2, 389-400	23.1	56
206	Unleashing the Power and Energy of LiFePO ₄ -Based Redox Flow Lithium Battery with a Bifunctional Redox Mediator. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6286-6289	16.4	55
205	Self-Template Synthesis of Porous Perovskite Titanate Solid and Hollow Submicrospheres for Photocatalytic Oxygen Evolution and Mesoscopic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14859-69	9.5	55
204	Multiferroic Polymer Laminate Composites Exhibiting High Magnetoelectric Response Induced by Hydrogen-Bonding Interactions. <i>Advanced Functional Materials</i> , 2014 , 24, 1067-1073	15.6	55
203	PbS/CdS-sensitized mesoscopic SnO ₂ solar cells for enhanced infrared light harnessing. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 7367-74	3.6	54
202	Fatigue-Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2001536	21.8	52
201	Determination of sensitizer regeneration efficiency in dye-sensitized solar cells. <i>ACS Nano</i> , 2013 , 7, 8233-8247	16.7	52
200	A microcube-based hybrid piezocomposite as a flexible energy generator. <i>RSC Advances</i> , 2017 , 7, 32502-32507	3.7	52
199	Bioinspired Hierarchically Structured All-Inorganic Nanocomposites with Significantly Improved Capacitive Performance. <i>Advanced Functional Materials</i> , 2020 , 30, 2000191	15.6	49
198	The influence of dye structure on charge recombination in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6637-48	3.6	49
197	Nernstian-Potential-Driven Redox-Targeting Reactions of Battery Materials. <i>Chem</i> , 2017 , 3, 1036-1049	16.2	48
196	A Stable and High-Capacity Redox Targeting-Based Electrolyte for Aqueous Flow Batteries. <i>Joule</i> , 2019 , 3, 2255-2267	27.8	48
195	Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1807857	15.6	47
194	Characteristics of p-NiO Thin Films Prepared by Spray Pyrolysis and Their Application in CdS-sensitized Photocathodes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H733	3.9	47
193	Decomposing lithium carbonate with a mobile catalyst. <i>Nano Energy</i> , 2017 , 36, 390-397	17.1	46
192	Mechanical Strain-Tunable Microwave Magnetism in Flexible CuFe ₂ O ₄ Epitaxial Thin Film for Wearable Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705928	15.6	46
191	Multiscale structural engineering of dielectric ceramics for energy storage applications: from bulk to thin films. <i>Nanoscale</i> , 2020 , 12, 17165-17184	7.7	46
190	A redox targeting-based material recycling strategy for spent lithium ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2672-2677	35.4	45

189	PbS quantum dots embedded in a ZnS dielectric matrix for bulk heterojunction solar cell applications. <i>Advanced Materials</i> , 2013 , 25, 4598-604	24	45
188	Heterogeneous electron transfer from dye-sensitized nanocrystalline TiO ₂ to [Co(bpy) ₃] ³⁺ : insights gained from impedance spectroscopy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3939-3952	16.4	44
187	Mesoporous SnO ₂ -coated metal nanoparticles with enhanced catalytic efficiency. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4844-50	9.5	42
186	3-Methoxypropionitrile-Based Novel Electrolytes for High-Power Li-Ion Batteries with Nanocrystalline Li ₄ Ti ₅ O ₁₂ Anode. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1598	3.9	42
185	Large enhancement of the electrocaloric effect in PLZT ceramics prepared by hot-pressing. <i>APL Materials</i> , 2016 , 4, 064103	5.7	41
184	Redox Targeting of Prussian Blue: Toward Low-Cost and High Energy Density Redox Flow Battery and Solar Rechargeable Battery. <i>ACS Energy Letters</i> , 2017 , 2, 615-621	20.1	40
183	Band engineered ternary solid solution CdS _x Se _{1-x} -sensitized mesoscopic TiO ₂ solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 7154-61	3.6	40
182	NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 96205-96212	3.7	39
181	Organic/inorganic hybrid electrolytes from ionic liquid-functionalized octasilsesquioxane for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18012-18019	13	39
180	N-annulated perylene-based push-pull-type sensitizers. <i>Organic Letters</i> , 2015 , 17, 724-7	6.2	39
179	Achieving high electric energy storage in a polymer nanocomposite at low filling ratios using a highly polarizable phthalocyanine interphase. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 1669-1680	2.6	39
178	Nanoconfinement-Induced Giant Electrocaloric Effect in Ferroelectric Polymer Nanowire Array Integrated with Aluminum Oxide Membrane to Exhibit Record Cooling Power Density. <i>Advanced Materials</i> , 2019 , 31, e1806642	24	39
177	Significant Improvements in Dielectric Constant and Energy Density of Ferroelectric Polymer Nanocomposites Enabled by Ultralow Contents of Nanofillers. <i>Advanced Materials</i> , 2021 , 33, e2102392	24	39
176	Redox Targeting-Based Aqueous Redox Flow Lithium Battery. <i>ACS Energy Letters</i> , 2018 , 3, 2314-2320	20.1	38
175	Chirality-induced relaxor properties in ferroelectric polymers. <i>Nature Materials</i> , 2020 , 19, 1169-1174	27	37
174	Harvesting Energy from Human Activity: Ferroelectric Energy Harvesters for Portable, Implantable, and Biomedical Electronics. <i>Energy Technology</i> , 2018 , 6, 791-812	3.5	37
173	Dependence of Dye-Sensitized Solar Cell Impedance on Photoelectrode Thickness. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1556-1562	3.8	37
172	Structural Insight in the Interfacial Effect in Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2020 , 32, e2005431	24	36

171	Mesoporous TiO ₂ photocatalytic films on stainless steel for water decontamination. <i>Catalysis Science and Technology</i> , 2012 , 2, 147-155	5.5	36
170	Synthesis of perylene dyes with multiple triphenylamine substituents. <i>Chemistry - A European Journal</i> , 2012 , 18, 11669-76	4.8	36
169	A Facile In Situ Surface-Functionalization Approach to Scalable Laminated High-Temperature Polymer Dielectrics with Ultrahigh Capacitive Performance. <i>Advanced Functional Materials</i> , 2021 , 31, 2102644	15.6	36
168	Redox Targeting-Based Vanadium Redox-Flow Battery. <i>ACS Energy Letters</i> , 2019 , 4, 3028-3035	20.1	36
167	Influence of Fe Substitution into LaCoO Electro catalysts on Oxygen-Reduction Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5682-5686	9.5	35
166	High-Temperature High-Energy-Density Dielectric Polymer Nanocomposites Utilizing Inorganic Core/Shell Nanostructured Nanofillers. <i>Advanced Energy Materials</i> , 2021 , 11, 2101297	21.8	35
165	Multiferroic Polymer Composites with Greatly Enhanced Magnetolectric Effect under a Low Magnetic Bias. <i>Advanced Materials</i> , 2011 , 23, n/a-n/a	24	34
164	A redox-flow electrochromic window. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2827-32	9.5	33
163	Flexible Ionic Diodes for Low-Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017 , 7, 1601983	21.8	33
162	Progress in lead-free piezoelectric nanofiller materials and related composite nanogenerator devices. <i>Nanoscale Advances</i> , 2020 , 2, 3131-3149	5.1	31
161	Anodic titania nanotubes grown on titanium tubular electrodes. <i>Langmuir</i> , 2014 , 30, 2835-41	4	31
160	Lightweight Porous Polystyrene with High Thermal Conductivity by Constructing 3D Interconnected Network of Boron Nitride Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46767-46778	9.5	31
159	Redox-targeted catalysis for vanadium redox-flow batteries. <i>Nano Energy</i> , 2018 , 52, 292-299	17.1	30
158	Conformal growth of nanocrystalline CdX (X = S, Se) on mesoscopic NiO and their photoelectrochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4767-74	3.6	30
157	Hydrous TiO ₂ spheres: An excellent platform for the rational design of mesoporous anatase spheres for photoelectrochemical applications. <i>Catalysis Today</i> , 2014 , 230, 197-204	5.3	30
156	Ultrahigh Energy Storage Performance of Layered Polymer Nanocomposites over a Broad Temperature Range. <i>Advanced Materials</i> , 2021 , 33, e2103338	24	30
155	Superior electrostrictive strain achieved under low electric fields in relaxor ferroelectric polymers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5201-5208	13	28
154	Laser-induced graphene non-enzymatic glucose sensors for on-body measurements. <i>Biosensors and Bioelectronics</i> , 2021 , 193, 113606	11.8	28

153	Significant performance improvement in dye-sensitized solar cells employing cobalt(III/II) tris-bipyridyl redox mediators by co-grafting alkyl phosphonic acids with a ruthenium sensitizer. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6170-4	3.6	27
152	In-plane thermal conductivity of nanoscale polyaniline thin films. <i>Applied Physics Letters</i> , 2009 , 95, 033113	3.4	27
151	Synthesis of Dumbbell-Shaped Triblock Structures Containing Ferroelectric Polymers and Oligoanilines with High Dielectric Constants. <i>Macromolecules</i> , 2008 , 41, 6265-6268	5.5	27
150	Towards multicaloric effect with ferroelectrics. <i>Physical Review B</i> , 2016 , 94,	3.3	27
149	Sandwich structured poly(vinylidene fluoride)/polyacrylate elastomers with significantly enhanced electric displacement and energy density. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24367-24377	13	27
148	SnSe ₂ Nanorods on Carbon Cloth as a Highly Selective, Active, and Flexible Electrocatalyst for Electrochemical Reduction of CO ₂ into Formate. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7655-7662	6.1	26
147	Na ₃ V ₂ (PO ₄) ₃ as the Sole Solid Energy Storage Material for Redox Flow Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2019 , 9, 1901188	21.8	26
146	High breakdown strength and low loss binary polymer blends of poly(vinylidene fluoride-trifluoroethylene-chlorofluoroethylene) and poly(methyl methacrylate). <i>Polymers for Advanced Technologies</i> , 2018 , 29, 1271-1277	3.2	26
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