

Haitao Huang

List of Publications by Year in Descending Order

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

325 papers	12,945 citations	64 h-index	97 g-index
353 ext. papers	15,380 ext. citations	8.6 avg, IF	6.81 L-index

#	Paper	IF	Citations
325	Plasmon-Enhanced Photocatalytic Activity of Organic Heterostructure for Indoor-Light Antibacterial Therapy. <i>Advanced Therapeutics</i> , 2022 , 5, 2100202	4.9	1
324	Structural composite energy storage devices: A review. <i>Materials Today Energy</i> , 2022 , 24, 100924	7	5
323	Pt NPs-loaded siloxene nanosheets for hydrogen co-evolutions from Zn-H ₂ O fuel cells-powered water-splitting. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 121008	21.8	4
322	Boosting the Redox Kinetics of High-Voltage P2-Type Cathode by Radially Oriented {010} Exposed Nanoplates for High-Power Sodium-Ion Batteries. <i>Small Structures</i> , 2022 , 3, 2100123	8.7	7
321	Ultrasensitive self-powered UV PDs via depolarization and heterojunction fields jointly enhanced carriers separation. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 392	3.8	0
320	Role of transition metal oxides in g-C ₃ N ₄ -based heterojunctions for photocatalysis and supercapacitors. <i>Journal of Energy Chemistry</i> , 2022 , 64, 214-235	12	15
319	Co/Ni dual-metal embedded in heteroatom doped porous carbon core-shell bifunctional electrocatalyst for rechargeable Zn-air batteries. <i>Materials Reports Energy</i> , 2022 , 100090		
318	Space-confined Engineering Boosted High-performance of Ultrafine Nickel Selenide Nanocomposites for Sodium-ion Capacitors. <i>Materials Today Sustainability</i> , 2022 , 100151	5	0
317	Plasmon-induced trap filling at grain boundaries in perovskite solar cells. <i>Light: Science and Applications</i> , 2021 , 10, 219	16.7	5
316	Niobium Carbide as a Promising Pseudocapacitive Sodium-Ion Storage Anode. <i>Energy Technology</i> , 2021 , 9, 2100298	3.5	1
315	Electrospinning-Based Strategies for Battery Materials. <i>Advanced Energy Materials</i> , 2021 , 11, 2000845	21.8	78
314	More is Different: Synergistic Effect and Structural Engineering in Double-Atom Catalysts. <i>Advanced Functional Materials</i> , 2021 , 31, 2007423	15.6	74
313	Tailoring carrier dynamics in inverted mesoporous perovskite solar cells with interface-engineered plasmonics. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2394-2403	13	3
312	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zinc-Iodine Battery with Improved Power and Energy Densities. <i>Angewandte Chemie</i> , 2021 , 133, 3835-3842	3.6	14
311	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zinc-Iodine Battery with Improved Power and Energy Densities. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3791-3798	16.4	26
310	Depolarization electric field and poling voltage-modulated Pb _{0.9} La _{0.1} (Zr,Ti)O ₃ -based self-powered ultraviolet photodetectors. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 928-935	3.8	5
309	Unravelling the origin of bifunctional OER/ORR activity for single-atom catalysts supported on C ₂ N by DFT and machine learning. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16860-16867	13	13

308	Phase control of ultrafine FeSe nanocrystals in a N-doped carbon matrix for highly efficient and stable oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3464-3471	13	4
307	An overview of flow cell architecture design and optimization for electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20897-20918	13	13
306	Double-Atom Catalysts: More is Different: Synergistic Effect and Structural Engineering in Double-Atom Catalysts (Adv. Funct. Mater. 3/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170015	15.6	0
305	Toward Practical High-Areal-Capacity Aqueous Zinc-Metal Batteries: Quantifying Hydrogen Evolution and a Solid-Ion Conductor for Stable Zinc Anodes. <i>Advanced Materials</i> , 2021 , 33, e2007406	24	133
304	Metal-Nitrogen-Carbon Catalysts of Specifically Coordinated Configurations toward Typical Electrochemical Redox Reactions. <i>Advanced Materials</i> , 2021 , 33, e2100997	24	15
303	Phase field modeling for the morphological and microstructural evolution of metallic materials under environmental attack. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	2
302	"Carbon quantum dots-glue" enabled high-capacitance and highly stable nickel sulphide nanosheet electrode for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 669-677	9.3	3
301	Electrospinning Techniques: Electrospinning-Based Strategies for Battery Materials (Adv. Energy Mater. 2/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170010	21.8	7
300	Electrochemical activation strategies of a novel high entropy amorphous V-based cathode material for high-performance aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18488-18497 ¹³	13	4
299	A fast and general approach to produce a carbon coated Janus metal/oxide hybrid for catalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7606-7616	13	6
298	Engineering NiFe layered double hydroxide by valence control and intermediate stabilization toward the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 26130-26138	13	24
297	Unravelling the Mechanism of Ionic Fullerene Passivation for Efficient and Stable Methylammonium-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 2015-2022	20.1	29
296	Metal-Organic-Framework-Derived N-, P-, and O-Codoped Nickel/Carbon Composites Homogeneously Decorated on Reduced Graphene Oxide for Energy Storage. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5625-5636	5.6	16
295	Aluminum electrolysis derivative spent cathodic carbon for dendrite-free Li metal anode. <i>Materials Today Energy</i> , 2020 , 17, 100465	7	6
294	Monolayer PC/PC: promising anode materials for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16665-16671	3.6	8
293	Ultrahigh Energy Efficiency and Large Discharge Energy Density in Flexible Dielectric Nanocomposites with PbLa(ZrSnTi)O Antiferroelectric Nanofillers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12847-12856	9.5	21
292	Hierarchical Architected Ternary Nanostructures Photocatalysts with In(OH) ₃ Nanocube on ZnIn ₂ S ₄ /NiS Nanosheets for Photocatalytic Hydrogen Evolution. <i>Solar Rrl</i> , 2020 , 4, 2000027	7.1	21
291	Reduce the low-frequency dielectric loss of (In _{0.5} Nb _{0.5}) _{0.05} Ti _{0.95} O ₂ ceramics by constructing insulating ZrO ₂ phase boundaries. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155617	5.7	3

290	Li metal deposition and stripping in a solid-state battery via Coble creep. <i>Nature</i> , 2020 , 578, 251-255	50.4	196
289	Advantageous Configurative Heteroatoms-Doped Carbon Foams Design and Application for Ultrahigh-Powered Zn/Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 731-738	8.3	4
288	Chiral Coupling of Valley Excitons and Light through Photonic Spin-Orbit Interactions. <i>Advanced Optical Materials</i> , 2020 , 8, 1901233	8.1	24
287	Theoretical Investigation of Monolayer RhTeCl Semiconductors as Photocatalysts for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 639-646	3.8	6
286	Highly Efficient Porous Carbon Electrocatalyst with Controllable N-Species Content for Selective CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3244-3251	16.4	88
285	Highly Efficient Porous Carbon Electrocatalyst with Controllable N-Species Content for Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 3270-3277	3.6	12
284	Applications of ESEM on Materials Science: Recent Updates and a Look Forward. <i>Small Methods</i> , 2020 , 4, 1900588	12.8	6
283	High-temperature energy storage properties in polyimide-based nanocomposites filled with antiferroelectric nanoparticles. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11344-11350	5.5	3
282	Harvesting vibration energy to piezo-catalytically generate hydrogen through Bi ₂ WO ₆ layered-perovskite. <i>Nano Energy</i> , 2020 , 78, 105351	17.1	35
281	Photocatalysis-Assisted CoO/g-CN p-n Junction All-Solid-State Supercapacitors: A Bridge between Energy Storage and Photocatalysis. <i>Advanced Science</i> , 2020 , 7, 2001939	13.6	28
280	Atomic Steps Induce the Aligned Growth of Ice Crystals on Graphite Surfaces. <i>Nano Letters</i> , 2020 , 20, 8112-8119	11.5	5
279	Low-temperature-poling awakened high dielectric breakdown strength and outstanding improvement of discharge energy density of (Pb,La)(Zr,Sn,Ti)O ₃ relaxor thin film. <i>Nano Energy</i> , 2020 , 77, 105132	17.1	16
278	Bimetallic Sulfide with Controllable Mg Substitution Anchored on CNTs as Hierarchical Bifunctional Catalyst toward Oxygen Catalytic Reactions for Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37164-37172	9.5	13
277	Stabilizing the cationic/anionic redox chemistry of Li-rich layered cathodes by tuning the upper cut-off voltage for high energy-density lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14214-14222	13	9
276	Rational Design and Synthesis of Ultra-Thin Ni(OH) ₂ Nanoplates for High Performance All-Solid-State Flexible Supercapacitors. <i>Frontiers in Chemistry</i> , 2020 , 8, 602322	5	6
275	Transition metal-tetracyanoquinodimethane monolayers as single-atom catalysts for the electrocatalytic nitrogen reduction reaction. <i>Materials Advances</i> , 2020 , 1, 1285-1292	3.3	6
274	In situ growth of CoP nanoparticles anchored on (N,P) co-doped porous carbon engineered by MOFs as advanced bifunctional oxygen catalyst for rechargeable Zn/Air battery. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19043-19049	13	35
273	Thermodynamically Metal Atom Trapping in Van der Waals Layers Enabling Multifunctional 3D Carbon Network. <i>Advanced Functional Materials</i> , 2020 , 30, 2002626	15.6	8

272	Enhanced piezoelectric-induced catalysis of SrTiO nanocrystal with well-defined facets under ultrasonic vibration. <i>Ultrasonics Sonochemistry</i> , 2020 , 61, 104819	8.9	49
271	Remarkably Enhanced Negative Electrocaloric Effect in PbZrO Thin Film by Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36863-36870	9.5	16
270	Recent advances in lead-free dielectric materials for energy storage. <i>Materials Research Bulletin</i> , 2019 , 113, 190-201	5.1	97
269	TiO ₂ -B nanowires via topological conversion with enhanced lithium-ion intercalation properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3842-3847	13	27
268	Harvesting the Vibration Energy of BiFeO Nanosheets for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11779-11784	16.4	145
267	Harvesting the Vibration Energy of BiFeO ₃ Nanosheets for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 11905-11910	3.6	26
266	Graphene/carbon aerogel for high areal capacity sulfur cathode of Li-S batteries. <i>Ionics</i> , 2019 , 25, 4615-4624	16.4	6
265	Interfacial engineering of front-contact with finely tuned polymer interlayers for high-performance large-area flexible perovskite solar cells. <i>Nano Energy</i> , 2019 , 62, 734-744	17.1	29
264	High efficiency bi-harvesting light/vibration energy using piezoelectric zinc oxide nanorods for dye decomposition. <i>Nano Energy</i> , 2019 , 62, 376-383	17.1	122
263	Universal Strategy for HF-Free Facile and Rapid Synthesis of Two-dimensional MXenes as Multifunctional Energy Materials. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9610-9616	16.4	208
262	Nanocomposite of Mo ₂ N Quantum Nitrogen-Doped Carbon as a High-Performance Anode for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10198-10206	8.3	22
261	Plasmonic Metal Nanoparticles with Core-Bishell Structure for High-Performance Organic and Perovskite Solar Cells. <i>ACS Nano</i> , 2019 , 13, 5397-5409	16.7	61
260	Valence Engineering via Selective Atomic Substitution on Tetrahedral Sites in Spinel Oxide for Highly Enhanced Oxygen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8136-8145	16.4	120
259	Phase-transition induced giant negative electrocaloric effect in a lead-free relaxor ferroelectric thin film. <i>Energy and Environmental Science</i> , 2019 , 12, 1708-1717	35.4	53
258	Flexible dielectric nanocomposites with simultaneously large discharge energy density and high energy efficiency utilizing (Pb,L a)(Zr,S n,T i)O ₃ antiferroelectric nanoparticles as fillers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13473-13482	13	45
257	Fiber-in-Tube Design of Co ₉ S ₈ -Carbon/Co ₉ S ₈ : Enabling Efficient Sodium Storage. <i>Angewandte Chemie</i> , 2019 , 131, 6305-6309	3.6	6
256	Fiber-in-Tube Design of Co S -Carbon/Co S : Enabling Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6239-6243	16.4	85
255	Realization of ultra-long columnar single crystals in TiO ₂ nanotube arrays as fast electron transport channels for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11520-11529	13	18

254	A high-power wearable triboelectric nanogenerator prepared from self-assembled electrospun poly(vinylidene fluoride) fibers with a heart-like structure. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11724-11733	13	35
253	Predicting two-dimensional pentagonal transition metal monophosphides for efficient electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11444-11451	13	35
252	Electrochemically assisted flexible lanthanide upconversion luminescence sensing of heavy metal contamination with high sensitivity and selectivity. <i>Nanoscale Advances</i> , 2019 , 1, 265-272	5.1	12
251	Dual-active-sites design of CoS _x anchored on nitrogen-doped carbon with tunable mesopore enables efficient Bi-Functional oxygen catalysis for ultra-stable zinc-air batteries. <i>Journal of Power Sources</i> , 2019 , 438, 226953	8.9	16
250	Theoretical Investigation of V3C2 MXene as Prospective High-Capacity Anode Material for Metal-Ion (Li, Na, K, and Ca) Batteries. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18207-18214	3.8	46
249	Ultrahigh piezoelectric coefficient of a lead-free K0.5Na0.5NbO3-based single crystal fabricated by a simple seed-free solid-state growth method. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14845-14854	7.1	25
248	Fullerene-Anchored Core-Shell ZnO Nanoparticles for Efficient and Stable Dual-Sensitized Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 417-431	27.8	44
247	Origin of Ferroelectricity in Epitaxial Si-Doped HfO Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4139-4144	9.5	23
246	Thermal strain induced large electrocaloric effect of relaxor thin film on LaNiO3/Pt composite electrode with the coexistence of nanoscale antiferroelectric and ferroelectric phases in a broad temperature range. <i>Nano Energy</i> , 2018 , 47, 285-293	17.1	60
245	Boosting the oxygen evolution reaction in non-precious catalysts by structural and electronic engineering. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10253-10263	13	43
244	Three-dimensional macroporous graphene monoliths with entrapped MoS nanoflakes from single-step synthesis for high-performance sodium-ion batteries.. <i>RSC Advances</i> , 2018 , 8, 2477-2484	3.7	10
243	Multifunctional NiTiO3 nanocoating fabrication based on the dual-Kirkendall effect enabling a stable cathode/electrolyte interface for nickel-rich layered oxides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2643-2652	13	14
242	Nitrogen-doped graphitic hierarchically porous carbon nanofibers obtained via bimetallic-coordination organic framework modification and their application in supercapacitors. <i>Dalton Transactions</i> , 2018 , 47, 7316-7326	4.3	25
241	Piezoelectrically/pyroelectrically-driven vibration/cold-hot energy harvesting for mechano-/pyro-bi-catalytic dye decomposition of NaNbO3 nanofibers. <i>Nano Energy</i> , 2018 , 52, 351-359	17.1	81
240	Energy storage characteristics of (Pb,Lu)(Zr,Sn,Ti)O3 antiferroelectric ceramics with high Sn content. <i>Applied Physics Letters</i> , 2018 , 113, 063902	3.4	53
239	Room-temperature pyro-catalytic hydrogen generation of 2D few-layer black phosphorene under cold-hot alternation. <i>Nature Communications</i> , 2018 , 9, 2889	17.4	85
238	Pressure-Induced Topological Nontrivial Phase and Tunable Optical Properties in All-Inorganic Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17718-17725	3.8	24
237	Epitaxial ferroelectric Hf0.5Zr0.5O2 thin film on a buffered YSZ substrate through interface reaction. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9224-9231	7.1	28

236	A Universal Strategy To Prepare Sulfur-Containing Polymer Composites with Desired Morphologies for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22002-22012	9.5	12
235	Improving the efficiency of dye-sensitized solar cell via tuning the Au plasmons inlaid TiO ₂ nanotube array photoanode. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 1139-1149	2.6	8
234	Pyro-catalytic hydrogen evolution by Ba _{0.7} Sr _{0.3} TiO ₃ nanoparticles: harvesting cold-hot alternation energy near room-temperature. <i>Energy and Environmental Science</i> , 2018 , 11, 2198-2207	35.4	104
233	Ferroelastic domain structure and phase transition in single-crystalline [PbZn _{1/3} Nb _{2/3} O ₃] _{1-x} [PbTiO ₃] _x observed via in situ x-ray microbeam. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1488-1497	6	3
232	Ferroelectrics in Electrocaloric Cooling 2018 , 231-264		
231	Towards high areal capacitance, rate capability, and tailorable supercapacitors: Co ₃ O ₄ @polypyrrole core-shell nanorod bundle array electrodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19058-19065	13	79
230	Fundamentals of Ferroelectric Materials 2018 , 1-31		3
229	First-Principles Calculations on Ferroelectrics for Energy Applications 2018 , 311-348		1
228	Piezoelectric Energy Generation 2018 , 33-59		1
227	Ferroelectric Photovoltaics 2018 , 61-94		
226	Organic-Inorganic Hybrid Perovskites for Solar Energy Conversion 2018 , 95-117		
225	Dielectric Ceramics and Films for Electrical Energy Storage 2018 , 119-168		1
224	Ferroelectric Polymer Materials for Electric Energy Storage 2018 , 169-202		1
223	Pyroelectric Energy Harvesting: Materials and Applications 2018 , 203-229		3
222	Ferroelectrics in Photocatalysis 2018 , 265-309		5
221	High pyrocatalytic properties of pyroelectric BaTiO ₃ nanofibers loaded by noble metal under room-temperature thermal cycling. <i>Ceramics International</i> , 2018 , 44, 21835-21841	5.1	34
220	Strong piezo-electro-chemical effect of piezoelectric BaTiO ₃ nanofibers for vibration-catalysis. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 915-921	5.7	85
219	PPy enhanced Fe, W Co-doped Co ₃ O ₄ free-standing electrode for highly-efficient oxygen evolution reaction. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 1189-1195	2.6	0

218	Greatly enhanced photocurrent in inorganic perovskite [KNbO ₃] _{0.9} [BaNi _{0.5} Nb _{0.5} O ₃] _{0.1} ferroelectric thin-film solar cell. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4892-4898	3.8	15
217	Low temperature transfer of well-tailored TiO ₂ nanotube array membrane for efficient plastic dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2017 , 343, 47-53	8.9	16
216	Synthesis of ferroelectric KNbO ₃ nanosheets by liquid exfoliation of layered perovskite K ₂ NbO ₃ F. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 357-363	5.7	7
215	Design of Hierarchical Ni ²⁺ /Co@Ni ²⁺ /Co Layered Double Hydroxide Core/Shell Structured Nanotube Array for High-Performance Flexible All-Solid-State Battery-Type Supercapacitors. <i>Advanced Functional Materials</i> , 2017 , 27, 1605307	15.6	230
214	Tailoring Anisotropic Li-Ion Transport Tunnels on Orthogonally Arranged Li-Rich Layered Oxide Nanoplates Toward High-Performance Li-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 1670-1677	11.5	99
213	A Catalytic Etching-Wetting-Dewetting Mechanism in the Formation of Hollow Graphitic Carbon Fiber. <i>Chem</i> , 2017 , 2, 299-310	16.2	38
212	Broadband and omnidirectional light harvesting enhancement in photovoltaic devices with aperiodic TiO ₂ nanotube photonic crystal. <i>Journal of Power Sources</i> , 2017 , 345, 12-20	8.9	10
211	A Hierarchically Porous Hollow Structure of Layered Bi ₂ TiO ₄ F ₂ for Efficient Photocatalysis. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 1892-1899	2.3	7
210	Engineering hetero-epitaxial nanostructures with aligned Li-ion channels in Li-rich layered oxides for high-performance cathode application. <i>Nano Energy</i> , 2017 , 35, 271-280	17.1	78
209	Fatigue mechanism verified using photovoltaic properties of Pb(Zr _{0.52} Ti _{0.48})O ₃ thin films. <i>Applied Physics Letters</i> , 2017 , 110, 133903	3.4	13
208	Ultrafine Cobalt Sulfide Nanoparticles Encapsulated Hierarchical N-doped Carbon Nanotubes for High-performance Lithium Storage. <i>Electrochimica Acta</i> , 2017 , 225, 137-142	6.7	38
207	A new low-temperature solution route to Aurivillius-type layered oxyfluoride perovskites Bi ₂ MO ₅ F (M = Nb, Ta) as photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 112-120	21.8	18
206	Facile and tailored synthesis of ultrahigh-surface-area clews of carbon nanobelts for high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23209-23220	13	21
205	Panchromatic thin perovskite solar cells with broadband plasmonic absorption enhancement and efficient light scattering management by Au@Ag core-shell nanocuboids. <i>Nano Energy</i> , 2017 , 41, 654-664	17.1	49
204	Origin of colossal dielectric response in (In + Nb) co-doped TiO rutile ceramics: a potential electrothermal material. <i>Scientific Reports</i> , 2017 , 7, 10144	4.9	12
203	Sulfur-impregnated N-doped hollow carbon nanofibers as cathode for lithium-sulfur batteries. <i>Materials Letters</i> , 2017 , 209, 505-508	3.3	19
202	Nitrogen-Doped Carbon for Sodium-Ion Battery Anode by Self-Etching and Graphitization of Bimetallic MOF-Based Composite. <i>Chem</i> , 2017 , 3, 152-163	16.2	171
201	A copper-doped nickel oxide bilayer for enhancing efficiency and stability of hysteresis-free inverted mesoporous perovskite solar cells. <i>Nano Energy</i> , 2017 , 40, 155-162	17.1	112

200	Facile synthesis of truncated cube-like NiSe ₂ single crystals for high-performance asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 330, 1334-1341	14.7	95
199	Protonation of Graphitic Carbon Nitride (g-C ₃ N ₄) for an Electrostatically Self-Assembling Carbon@g-C ₃ N ₄ Core/Shell Nanostructure toward High Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7093-7103	8.3	197
198	A Diagram of the Structure Evolution of Pb(Zn _{1/3} Nb _{2/3})O ₃ -9%PbTiO ₃ Relaxor Ferroelectric Crystals with Excellent Piezoelectric Properties. <i>Crystals</i> , 2017 , 7, 130	2.3	4
197	Commercial Dacron cloth supported Cu(OH) ₂ nanobelt arrays for wearable supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14781-14788	13	62
196	Ni@NiO core/shell dendrites for ultra-long cycle life electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15049-15056	13	27
195	Estimate bond angle dependence of superconducting transition temperature in NaFeAs with the first principle methods. <i>Solid State Communications</i> , 2016 , 246, 12-16	1.6	
194	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie</i> , 2016 , 128, 16063-16066	3.6	12
193	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15831-15836	3.6	12
192	Flexible fiber hybrid supercapacitor with NiCo ₂ O ₄ nanograss@carbon fiber and bio-waste derived high surface area porous carbon. <i>Electrochimica Acta</i> , 2016 , 211, 411-419	6.7	91
191	Electrospun carbon-based nanostructured electrodes for advanced energy storage A review. <i>Energy Storage Materials</i> , 2016 , 5, 58-92	19.4	140
190	Inserting Sn Nanoparticles into the Pores of TiO ₂ Nanofibers by Lithiation. <i>Advanced Functional Materials</i> , 2016 , 26, 376-383	15.6	44
189	Highly efficient perovskite solar cells with precursor composition-dependent morphology. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 145, 231-237	6.4	25
188	Flexible and wearable fiber shaped high voltage supercapacitors based on copper hexacyanoferrate and porous carbon coated carbon fiber electrodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4934-4940	13	48
187	Efficient Planar Perovskite Solar Cells with Reduced Hysteresis and Enhanced Open Circuit Voltage by Using PW12-TiO ₂ as Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8520-8526	9.5	33
186	Suppressing the Coffee-Ring Effect in Semitransparent MnO ₂ Film for a High-Performance Solar-Powered Energy Storage Window. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9088-96	9.5	25
185	ZnO-Decorated Carbon Nanotube Hybrids as Fillers Leading to Reversible Nonlinear I-V Behavior of Polymer Composites for Device Protection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35545-35551	9.5	18
184	A giant negative electrocaloric effect in Eu-doped PbZrO ₃ thin films. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3375-3378	7.1	52
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