

# Zhifeng Ren

## 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.

361  
papers

39,780  
citations

99  
h-index

193  
g-index

375  
ext. papers

46,375  
ext. citations

11.5  
avg, IF

7.66  
L-index

#	Paper	IF	Citations
361	Recent progress on cubic boron arsenide with ultrahigh thermal conductivity. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 055102	2.5	0
360	Efficient Alkaline Water/Seawater Hydrogen Evolution by a Nanorod-nanoparticle-structured Ni-MoN Catalyst with Fast Water-dissociation Kinetics.. <i>Advanced Materials</i> , <b>2022</b> , e2201774	24	16
359	High-performance seawater oxidation by a homogeneous multimetallic layered double hydroxide electrocatalyst.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2202382119	11.5	8
358	Mobility enhancement in heavily doped semiconductors via electron cloaking.. <i>Nature Communications</i> , <b>2022</b> , 13, 2482	17.4	1
357	Crystallographic design for half-Heuslers with low lattice thermal conductivity. <i>Materials Today Physics</i> , <b>2022</b> , 25, 100704	8	1
356	The challenge of tuning the ratio of lattice/total thermal conductivity toward conversion efficiency vs power density. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 180501	3.4	3
355	Engineering In-Plane Nickel Phosphide Heterointerfaces with Interfacial sp H <sub>2</sub> P Hybridization for Highly Efficient and Durable Hydrogen Evolution at 2 A cm. <i>Small</i> , <b>2021</b> , e2105642	11	9
354	Thermoelectric performance improvement of p-type Mg <sub>3</sub> Sb <sub>2</sub> -based materials by Zn and Ag co-doping. <i>Materials Today Physics</i> , <b>2021</b> , 21, 100564	8	7
353	Interfacial Superconductivity Achieved in Parent AEF <sub>2</sub> As (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. <i>Nano Letters</i> , <b>2021</b> , 21, 2191-2198	11.5	1
352	Hybrid Transition-Metal Oxide and Nitride@N-Doped Reduced Graphene Oxide Electrodes for High-Performance, Flexible, and All-Solid-State Supercapacitors. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 5761-5768	4.8	2
351	Influence of cation size on the thermoelectric behavior of salt-doped organic nanocomposite thin films. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 151904	3.4	1
350	Recent advances in flexible thermoelectrics. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 170503	3.4	3
349	Electronic structure of cubic boron arsenide probed by scanning tunneling spectroscopy. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 31LT01	3	1
348	Boron-modified cobalt iron layered double hydroxides for high efficiency seawater oxidation. <i>Nano Energy</i> , <b>2021</b> , 83, 105838	17.1	44
347	Ultrahigh Thermoelectric Performance in Environmentally Friendly SnTe Achieved through Stress-Induced Lotus-Seedpod-Like Grain Boundaries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101554	15.6	21
346	Rational design of oxygen evolution reaction catalysts for seawater electrolysis. <i>Trends in Chemistry</i> , <b>2021</b> , 3, 485-498	14.8	21
345	Defect charging and resonant levels in half-Heusler Nb <sub>1-x</sub> Bi FeSb. <i>Materials Today Physics</i> , <b>2021</b> , 16, 100278		3

344	Heterogeneous Bimetallic Phosphide Ni <sub>2</sub> P-Fe <sub>2</sub> P as an Efficient Bifunctional Catalyst for Water/Seawater Splitting. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006484	15.6	134
343	Thermoelectric cooling materials. <i>Nature Materials</i> , <b>2021</b> , 20, 454-461	27	97
342	Pickering emulsion stabilized by organoclay and intermediately hydrophobic nanosilica for high-temperature conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 610, 125694	5.1	6
341	CALPHAD as a powerful technique for design and fabrication of thermoelectric materials. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6634-6649	13	6
340	High thermoelectric performance at room temperature of n-type Mg <sub>3</sub> Bi <sub>2</sub> -based materials by Se doping. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	2
339	Towards tellurium-free thermoelectric modules for power generation from low-grade heat. <i>Nature Communications</i> , <b>2021</b> , 12, 1121	17.4	36
338	Effects of Impurities on the Thermal and Electrical Transport Properties of Cubic Boron Arsenide. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6974-6982	9.6	4
337	Electrochemical Insight into Na <sub>x</sub> CoO <sub>2</sub> for the Oxygen Evolution Reaction and the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6299-6310	9.6	4
336	Development of a high-temperature (295000 K) Seebeck coefficient Standard Reference Material. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 3339	2.5	0
335	Tuning Metal Elements in Open Frameworks for Efficient Oxygen Evolution and Oxygen Reduction Reaction Catalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 42715-42723	9.5	5
334	Rational design of core-shell-structured CoP <sub>x</sub> @FeOOH for efficient seawater electrolysis. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 294, 120256	21.8	33
333	Bioinspired Redox Mediator in Lithium-Oxygen Batteries. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1833-1840	13.1	4
332	VS <sub>4</sub> with a chain crystal structure used as an intercalation cathode for aqueous Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10761-10766	13	35
331	Ultrafast room-temperature synthesis of porous S-doped Ni/Fe (oxy)hydroxide electrodes for oxygen evolution catalysis in seawater splitting. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3439-3446	35.4	173
330	Atypical Oxygen-Bearing Copper Boosts Ethylene Selectivity toward Electrocatalytic CO Reduction. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11417-11427	16.4	99
329	Titanium Doping to Enhance Thermoelectric Performance of 19-Electron VCoSb Half-Heusler Compounds with Vanadium Vacancies. <i>Annalen Der Physik</i> , <b>2020</b> , 532, 1900440	2.6	6
328	Enhanced thermoelectric performance in polycrystalline N-type Pr-doped SnSe by hot forging. <i>Acta Materialia</i> , <b>2020</b> , 190, 1-7	8.4	13
327	Recent Advances in Self-Supported Layered Double Hydroxides for Oxygen Evolution Reaction. <i>Research</i> , <b>2020</b> , 2020, 3976278	7.8	33

- 326 Laser-Induced Silicon Oxide for Anode-Free Lithium Metal Batteries. *Advanced Materials*, **2020**, 32, e2002850 35
- 325 Bi<sub>0.5</sub>Sb<sub>1.5</sub>Te<sub>3</sub>-based films for flexible thermoelectric devices. *Journal of Materials Chemistry A*, **2020**, 8, 4552-4561 13 27
- 324 Ultralow thermal conductivity from transverse acoustic phonon suppression in distorted crystalline BiMgAgSb. *Nature Communications*, **2020**, 11, 942 17.4 26
- 323 Achieving high-performance p-type SmMg<sub>2</sub>Bi<sub>2</sub> thermoelectric materials through band engineering and alloying effects. *Journal of Materials Chemistry A*, **2020**, 8, 15760-15766 13 9
- 322 High-Performance Ag-Modified BiSbTe Films for the Flexible Thermoelectric Generator. *ACS Applied Materials & Interfaces*, **2020**, 12, 7358-7365 9.5 33
- 321 In Situ Growth of Ru Nanoparticles on (Fe,Ni)(OH)<sub>2</sub> to Boost Hydrogen Evolution Activity at High Current Density in Alkaline Media. *Small Methods*, **2020**, 4, 1900796 12.8 36
- 320 Gram-scale bottom-up flash graphene synthesis. *Nature*, **2020**, 577, 647-651 50.4 201
- 319 Achieving high room-temperature thermoelectric performance in cubic AgCuTe. *Journal of Materials Chemistry A*, **2020**, 8, 4790-4799 13 28
- 318 Phase Inversion of Pickering Emulsions by Electrolyte for Potential Reversible Water-in-Oil Drilling Fluids. *Energy & Fuels*, **2020**, 34, 1317-1328 4.1 6
- 317 Defect Engineering for Realizing p-Type AgBiSe<sub>2</sub> with a Promising Thermoelectric Performance. *Chemistry of Materials*, **2020**, 32, 3528-3536 9.6 7
- 316 Facile synthesis of nanoparticle-stacked tungsten-doped nickel iron layered double hydroxide nanosheets for boosting oxygen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 8096-8103<sup>13</sup> 30
- 315 Optical properties of cubic boron arsenide. *Applied Physics Letters*, **2020**, 116, 141903 3.4 6
- 314 N-Type MgSb Bi Alloys as Promising Thermoelectric Materials. *Research*, **2020**, 2020, 1219461 7.8 10
- 313 Thermoelectric Properties of Zintl Phase YbMg<sub>2</sub>Sb<sub>2</sub>. *Chemistry of Materials*, **2020**, 32, 776-784 9.6 21
- 312 Quasi-Solid-State LiD<sub>2</sub> Batteries with Laser-Induced Graphene Cathode Catalysts. *ACS Applied Energy Materials*, **2020**, 3, 1702-1709 6.1 11
- 311 Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. *Science*, **2020**, 367, 555-559 33.3 90
- 310 Robust Hydrogen-Evolving Electrocatalyst from Heterogeneous Molybdenum Disulfide-Based Catalyst. *ACS Catalysis*, **2020**, 10, 1511-1519 13.1 52
- 309 Smart Pickering water-in-oil emulsion by manipulating interactions between nanoparticles and surfactant as potential oil-based drilling fluid. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 586, 124246 5.1 17

308	A double four-point probe method for reliable measurement of energy conversion efficiency of thermoelectric materials. <i>Energy</i> , <b>2020</b> , 191, 116599	7.9	5
307	Suppressed phase transition and enhanced thermoelectric performance in iodine-doped AgCuTe. <i>Nano Energy</i> , <b>2020</b> , 77, 105297	17.1	8
306	N-type Mg <sub>3</sub> Sb <sub>2</sub> -Bi with improved thermal stability for thermoelectric power generation. <i>Acta Materialia</i> , <b>2020</b> , 201, 572-579	8.4	14
305	Pressure-Dependent Behavior of Defect-Modulated Band Structure in Boron Arsenide. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001942	24	9
304	Half-Heusler thermoelectric materials: NMR studies. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 055106	2.5	3
303	Hydrogen Generation from Seawater Electrolysis over a Sandwich-like NiCoN Ni <sub>3</sub> P NiCoN Microsheet Array Catalyst. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2681-2689	20.1	71
302	CO to Formic Acid Using Cu-Sn on Laser-Induced Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41223-41229	9.5	17
301	Salt doping to improve thermoelectric power factor of organic nanocomposite thin films.. <i>RSC Advances</i> , <b>2020</b> , 10, 11800-11807	3.7	8
300	Enhanced Thermoelectric Performance in N-Type Mg <sub>3.2</sub> Sb <sub>1.5</sub> Bi <sub>0.5</sub> by La or Ce Doping into Mg. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901391	6.4	8
299	Realizing a Rechargeable High-Performance Cu <sub>2</sub> Zn Battery by Adjusting the Solubility of Cu <sup>2+</sup> . <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905979	15.6	29
298	Effect of boron sources on the growth of boron arsenide single crystals by chemical vapor transport. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 092103	3.4	6
297	Interactions between amphiphilic Janus nanosheets and a nonionic polymer in aqueous and biphasic systems. <i>Soft Matter</i> , <b>2019</b> , 15, 7472-7478	3.6	7
296	The effect of carbon quantum dots on the electrocatalytic hydrogen evolution reaction of manganese-nickel phosphide nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21488-21495	13	27
295	Large reduction of thermal conductivity leading to enhanced thermoelectric performance in p-type Mg <sub>3</sub> Bi <sub>2</sub> -xMg <sub>2</sub> Bi <sub>2</sub> solid solutions. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 434-440	7.1	20
294	Realizing high conversion efficiency of Mg <sub>3</sub> Sb <sub>2</sub> -based thermoelectric materials. <i>Journal of Power Sources</i> , <b>2019</b> , 414, 393-400	8.9	47
293	Zintl-phase EuZnSb: A promising thermoelectric material with ultralow thermal conductivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 2831-2836	11.5	59
292	Electrostatic-attraction-induced high internal phase emulsion for large-scale synthesis of amphiphilic Janus nanosheets. <i>Chemical Communications</i> , <b>2019</b> , 55, 1318-1321	5.8	15
291	Understanding the asymmetrical thermoelectric performance for discovering promising thermoelectric materials. <i>Science Advances</i> , <b>2019</b> , 5, eaav5813	14.3	27

290	High-pressure phases of boron arsenide with potential high thermal conductivity. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
289	Manipulation of Ni Interstitials for Realizing Large Power Factor in TiNiSn-Based Materials. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900166	6.4	23
288	Mechanical properties of boron arsenide single crystal. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 131903	3.4	15
287	Electrochemical Performance of Free-Standing and Flexible Graphene and TiO Composites with Different Conductive Polymers as Electrodes for Supercapacitors. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 7903-7911	4.8	18
286	Visible-light driven CO <sub>2</sub> reduction coupled with water oxidation on Cl-doped Cu <sub>2</sub> O nanorods. <i>Nano Energy</i> , <b>2019</b> , 60, 576-582	17.1	71
285	High Thermal Conductivity in Boron Arsenide: From Prediction to Reality. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5882-5889	3.6	6
284	New Way to Synthesize Robust and Porous NiFe Layered Double Hydroxide for Efficient Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32909-32916	9.5	10
283	Realization of higher thermoelectric performance by dynamic doping of copper in n-type PbTe. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3089-3098	35.4	73
282	Li-Breathing Air Batteries Catalyzed by MnNiFe/Laser-Induced Graphene Catalysts. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901035	4.6	15
281	High thermoelectric cooling performance of n-type MgBi-based materials. <i>Science</i> , <b>2019</b> , 365, 495-498	33.3	240
280	Sustainable Synthesis of Bright Green Fluorescent Nitrogen-Doped Carbon Quantum Dots from Alkali Lignin. <i>ChemSusChem</i> , <b>2019</b> , 12, 4202-4210	8.3	46
279	A universal synthesis strategy to make metal nitride electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19728-19732	13	67
278	Improved Thermoelectric Performance of Eco-Friendly $\text{FeSi}_2\text{BiGe}$ Nanocomposite via Synergistic Hierarchical Structuring, Phase Percolation, and Selective Doping. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903157	15.6	17
277	Thermal Expansion Coefficient and Lattice Anharmonicity of Cubic Boron Arsenide. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	10
276	Giant Poisson's Effect for Wrinkle-Free Stretchable Transparent Electrodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902955	24	25
275	Thermodynamic calculation and its experimental correlation with the growth process of boron arsenide single crystals. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 155108	2.5	
274	n-Type TaCoSn-Based Half-Heuslers as Promising Thermoelectric Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41321-41329	9.5	25
273	Design of High-Performance Disordered Half-Heusler Thermoelectric Materials Using 18-Electron Rule. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1905044	15.6	38

272	Non-noble metal-nitride based electrocatalysts for high-performance alkaline seawater electrolysis. <i>Nature Communications</i> , <b>2019</b> , 10, 5106	17.4	318
271	High Thermal Conductivity in Boron Arsenide: From Prediction to Reality. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5824-5831	16.4	26
270	Enhancement of thermoelectric performance across the topological phase transition in dense lead selenide. <i>Nature Materials</i> , <b>2019</b> , 18, 1321-1326	27	47
269	Photothermal Heating-Induced Localized Structural Disruption in a Poly-ε-caprolactone Nanocarrier System for Controlled Drug Delivery.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 464-469	4.1	4
268	Flexible Electronics: Stretchable Electrodes and Their Future. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805924	15.6	305
267	Thermoelectric properties of silicon and recycled silicon sawing waste. <i>Journal of Materiomics</i> , <b>2019</b> , 5, 15-33	6.7	15
266	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. <i>Nature Communications</i> , <b>2019</b> , 10, 270	17.4	155
265	Highly Efficient Hydrogen Evolution from a Mesoporous Hybrid of Nickel Phosphide Nanoparticles Anchored on Cobalt Phosphosulfide/Phosphide Nanosheet Arrays. <i>Small</i> , <b>2019</b> , 15, e1804272	11	65
264	Nickel phosphide based hydrogen producing catalyst with low overpotential and stability at high current density. <i>Electrochimica Acta</i> , <b>2019</b> , 299, 756-761	6.7	27
263	Laser-Induced Graphene Hybrid Catalysts for Rechargeable Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1460-1468	6.1	36
262	Freestanding RGO/Co <sub>3</sub> O <sub>4</sub> /PPy Composite Films as Electrodes for Supercapacitors. <i>Energy Technology</i> , <b>2019</b> , 7, 1800606	3.5	12
261	Improved Thermoelectric Performance of Tellurium by Alloying with a Small Concentration of Selenium to Decrease Lattice Thermal Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 511-516	9.5	5
260	Deep defect level engineering: a strategy of optimizing the carrier concentration for high thermoelectric performance. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 933-940	35.4	110
259	Poly(sodium 4-styrenesulfonate) Stabilized Janus Nanosheets in Brine with Retained Amphiphilicity. <i>Langmuir</i> , <b>2018</b> , 34, 3694-3700	4	13
258	Nano-microstructural control of phonon engineering for thermoelectric energy harvesting. <i>MRS Bulletin</i> , <b>2018</b> , 43, 181-186	3.2	80
257	Study on anisotropy of n-type Mg <sub>3</sub> Sb <sub>2</sub> -based thermoelectric materials. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 092103	3.4	22
256	Amorphous NiFe layered double hydroxide nanosheets decorated on 3D nickel phosphide nanoarrays: a hierarchical core-shell electrocatalyst for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13619-13623	13	105
255	Oxidized Laser-Induced Graphene for Efficient Oxygen Electrocatalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707319	24	63

254	Routes for high-performance thermoelectric materials. <i>Materials Today</i> , <b>2018</b> , 21, 974-988	21.8	187
253	Highly efficient hydrogen evolution by self-standing nickel phosphide-based hybrid nanosheet arrays electrocatalyst. <i>Materials Today Physics</i> , <b>2018</b> , 4, 1-6	8	52
252	Trimetallic NiFeMo for Overall Electrochemical Water Splitting with a Low Cell Voltage. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 546-554	20.1	120
251	In Situ Synthesis of Efficient Water Oxidation Catalysts in Laser-Induced Graphene. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 677-683	20.1	64
250	Robust and selective electrochemical reduction of CO <sub>2</sub> : the case of integrated 3D TiO <sub>2</sub> @MoS <sub>2</sub> architectures and TiB bonding effects. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4706-4713	13	49
249	Seeded growth of boron arsenide single crystals with high thermal conductivity. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 031903	3.4	31
248	Significant Role of Mg Stoichiometry in Designing High Thermoelectric Performance for Mg(Sb,Bi)-Based n-Type Zintl. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1910-1915	16.4	82
247	Recent progress towards high performance of tin chalcogenide thermoelectric materials. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2432-2448	13	71
246	Unusual consequences of donor and acceptor doping on the thermoelectric properties of the MgAg <sub>0.97</sub> Sb <sub>0.99</sub> alloy. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2600-2611	13	4
245	Ultrahigh Power Factor in Thermoelectric System NbMFeSb (M = Hf, Zr, and Ti). <i>Advanced Science</i> , <b>2018</b> , 5, 1800278	13.6	31
244	Large thermoelectric power factor from crystal symmetry-protected non-bonding orbital in half-Heuslers. <i>Nature Communications</i> , <b>2018</b> , 9, 1721	17.4	77
243	Bio-derived three-dimensional hierarchical carbon-graphene-TiO as electrode for supercapacitors. <i>Scientific Reports</i> , <b>2018</b> , 8, 4412	4.9	19
242	Electrochemical CO <sub>2</sub> Reduction with Atomic Iron-Dispersed on Nitrogen-Doped Graphene. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703487	21.8	277
241	Self-compensation induced vacancies for significant phonon scattering in InSb. <i>Nano Energy</i> , <b>2018</b> , 48, 189-196	17.1	23
240	High thermoelectric performance of $\beta$ -MgAgSb for power generation. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 23-44	35.4	94
239	Synthesis of graphene-based amphiphilic Janus nanosheets via manipulation of hydrogen bonding. <i>Carbon</i> , <b>2018</b> , 126, 105-110	10.4	27
238	The Effects of Excess Co on the Phase Composition and Thermoelectric Properties of Half-Heusler NbCoSb. <i>Materials</i> , <b>2018</b> , 11,	3.5	5
237	Phase-transition temperature suppression to achieve cubic GeTe and high thermoelectric performance by Bi and Mn codoping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5332-5337	11.5	130



236	Ternary Ni <sub>2</sub> (1-x)Mo <sub>2</sub> xP nanowire arrays toward efficient and stable hydrogen evolution electrocatalysis under large-current-density. <i>Nano Energy</i> , <b>2018</b> , 53, 492-500	17.1	148
235	Achieving Self-Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-Functionalized Ovalbumin. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800932	4.6	4
234	Native defects and impurity band behavior in half-Heusler thermoelectric NbFeSb. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 21960-21967	3.6	6
233	A Metamaterial-Plasmonic Scheme Based on a Random Metallic Network for Controlling Thermal Emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800206	1.6	1
232	Proton irradiation effect on thermoelectric properties of nanostructured n-type half-Heusler Hf <sub>0.25</sub> Zr <sub>0.75</sub> NiSn <sub>0.99</sub> Sb <sub>0.01</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 112, 243902	3.4	4
231	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. <i>Nature Communications</i> , <b>2018</b> , 9, 2497	17.4	154
230	Multi-scale study of the deformation mechanisms of thermoelectric p-type half-Heusler Hf <sub>0.44</sub> Zr <sub>0.44</sub> Ti <sub>0.12</sub> CoSb <sub>0.8</sub> Sn <sub>0.2</sub> . <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 175104	2.5	
229	Impurity-derived p-type conductivity in cubic boron arsenide. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 251902	3.4	24
228	Advances in thermoelectrics. <i>Advances in Physics</i> , <b>2018</b> , 67, 69-147	18.4	225
227	Power Generation from Nanostructured Half-Heusler Thermoelectrics for Efficient and Robust Energy Harvesting. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5986-5992	6.1	8
226	Hierarchical CoP/Ni <sub>5</sub> P <sub>4</sub> /CoP microsheet arrays as a robust pH-universal electrocatalyst for efficient hydrogen generation. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2246-2252	35.4	204
225	Water splitting by electrolysis at high current densities under 1.6 volts. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2858-2864	35.4	273
224	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , <b>2018</b> , 361, 582-585	33.3	185
223	High-performance bifunctional porous non-noble metal phosphide catalyst for overall water splitting. <i>Nature Communications</i> , <b>2018</b> , 9, 2551	17.4	566
222	Capillary-Force-Induced Cold Welding in Silver-Nanowire-Based Flexible Transparent Electrodes. <i>Nano Letters</i> , <b>2017</b> , 17, 1090-1096	11.5	145
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219	Grain Boundary Engineering for Achieving High Thermoelectric Performance in n-Type Skutterudites. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602582	21.8	146

218	A Highly Stretchable and Fatigue-Free Transparent Electrode Based on an In-Plane Buckled Au Nanotrough Network. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600534	6.4	28
217	The microscopic origin of low thermal conductivity for enhanced thermoelectric performance of Yb doped MgAgSb. <i>Acta Materialia</i> , <b>2017</b> , 128, 227-234	8.4	30
216	Tuning the carrier scattering mechanism to effectively improve the thermoelectric properties. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 799-807	35.4	227
215	Thermal conductivity of (VO <sub>2</sub> ) <sub>1-x</sub> Cu <sub>x</sub> composites across the phase transition temperature. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 155103	2.5	10
214	Engineering the Thermoelectric Transport in Half-Heusler Materials through a Bottom-Up Nanostructure Synthesis. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700446	21.8	40
213	Highly active catalyst derived from a 3D foam of Fe(PO)/NiP for extremely efficient water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5607-5611	11.5	225
212	Filling fraction of Yb in CoSb <sub>3</sub> Skutterudite studied by electron microscopy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 163901	3.4	5
211	Outstanding hydrogen evolution reaction catalyzed by porous nickel diselenide electrocatalysts. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1487-1492	35.4	138
210	A TiO/FeMnP Core/Shell Nanorod Array Photoanode for Efficient Photoelectrochemical Oxygen Evolution. <i>ACS Nano</i> , <b>2017</b> , 11, 4051-4059	16.7	93
209	Colloidal Stability of Graphene-Based Amphiphilic Janus Nanosheet Fluid. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3454-3460	9.6	28
208	Thermoelectric Properties of n-type ZrNiPb-Based Half-Heuslers. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 867-876	9.6	48
207	Graphene Flakes: Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene (Adv. Mater. 1/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	6
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205	Hierarchical Cu@CoFe layered double hydroxide core-shell nanoarchitectures as bifunctional electrocatalysts for efficient overall water splitting. <i>Nano Energy</i> , <b>2017</b> , 41, 327-336	17.1	174
204	A rapid method to extract Seebeck coefficient under a large temperature difference. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 094902	1.7	5
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201	The effect of Sn doping on thermoelectric performance of n-type half-Heusler NbCoSb. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 25683-25690	3.6	19

200	Vertically Aligned MoS <sub>2</sub> /Mo <sub>2</sub> C hybrid Nanosheets Grown on Carbon Paper for Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7312-7318	13.1	141
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196	Bifunctional metal phosphide FeMnP films from single source metal organic chemical vapor deposition for efficient overall water splitting. <i>Nano Energy</i> , <b>2017</b> , 39, 444-453	17.1	89
195	Computational modelling of the thermoelectric properties of p-type Zintl compound CaMg <sub>2</sub> Bi <sub>2</sub> . <i>Materials Today Physics</i> , <b>2017</b> , 2, 40-45	8	33
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191	Cu nanowires shelled with NiFe layered double hydroxide nanosheets as bifunctional electrocatalysts for overall water splitting. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1820-1827	35.4	733
190	Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604453	24	50
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