

Zhi-Gang Chen

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.

371
papers

23,436
citations

82
h-index

141
g-index

386
ext. papers

27,999
ext. citations

10.9
avg, IF

7.53
L-index

#	Paper	IF	Citations
371	Thermoelectric Coolers: Progress, Challenges, and Opportunities.. <i>Small Methods</i> , 2022 , e2101235	12.8	11
370	Molybdenum-Promoted Surface Reconstruction in Polymorphic Cobalt for Initiating Rapid Oxygen Evolution (Adv. Energy Mater. 5/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270016	21.8	
369	Achieving ultrahigh power factor in n-type Ag ₂ Se thin films by carrier engineering. <i>Materials Today Energy</i> , 2022 , 24, 100933	7	1
368	High thermoelectric and mechanical performance in the n-type polycrystalline SnSe incorporated with multi-walled carbon nanotubes. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 55-61	9.1	5
367	Cheap, Large-Scale, and High-Performance Graphite-Based Flexible Thermoelectric Materials and Devices with Supernormal Industry Feasibility.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	1
366	High-performance in n-type PbTe-based thermoelectric materials achieved by synergistically dynamic doping and energy filtering. <i>Nano Energy</i> , 2022 , 91, 106706	17.1	14
365	Se-alloying reducing lattice thermal conductivity of Ge _{0.95} Bi _{0.05} Te. <i>Journal of Materials Science and Technology</i> , 2022 , 106, 249-256	9.1	7
364	Achieving high-performance n-type PbTe via synergistically optimizing effective mass and carrier concentration and suppressing lattice thermal conductivity. <i>Chemical Engineering Journal</i> , 2022 , 428, 132601	14.7	8
363	Flexible hollow TiO ₂ @CMS/carbon-fiber van der Waals heterostructures for simulated-solar light photocatalysis and photoelectrocatalysis. <i>Journal of Materials Science and Technology</i> , 2022 , 98, 143-150 ^{9.1}	9.1	9
362	Enhanced thermoelectric performance of n-type Nb-doped PbTe by compensating resonant level and inducing atomic disorder. <i>Materials Today Physics</i> , 2022 , 24, 100677	8	3
361	Thermoelectrics for medical applications: Progress, challenges, and perspectives. <i>Chemical Engineering Journal</i> , 2022 , 437, 135268	14.7	8
360	Simultaneously achieving high ZT and mechanical hardness in highly alloyed GeTe with symmetric nanodomains. <i>Chemical Engineering Journal</i> , 2022 , 441, 136131	14.7	9
359	Thermoelectric coolers: Infinite potentials for finite localized microchip cooling. <i>Journal of Materials Science and Technology</i> , 2022 , 121, 256-262	9.1	7
358	Optimal array alignment to deliver high performance in flexible conducting polymer-based thermoelectric devices. <i>Journal of Materials Science and Technology</i> , 2022 , 124, 252-259	9.1	1
357	Achieving high thermoelectric properties in PEDOT:PSS/SWCNTs composite films by a combination of dimethyl sulfoxide doping and NaBH ₄ dedoping. <i>Carbon</i> , 2022 , 196, 718-726	10.4	1
356	The effect of rare earth element doping on thermoelectric properties of GeTe. <i>Chemical Engineering Journal</i> , 2022 , 446, 137278	14.7	1
355	Novel Thermal Diffusion Temperature Engineering Leading to High Thermoelectric Performance in Bi Te -Based Flexible Thin-Films.. <i>Advanced Science</i> , 2021 , e2103547	13.6	17

354	Impurity Removal Leading to High-Performance CoSb-Based Skutterudites with Synergistic Carrier Concentration Optimization and Thermal Conductivity Reduction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54185-54193	9.5	0
353	High near-room temperature figure of merit of n-type Bi ₂ GeTe ₄ -based thermoelectric materials via a stepwise optimization of carrier concentration. <i>Chemical Engineering Journal</i> , 2021 , 133775	14.7	4
352	N-doped silk wadding-derived carbon/SnO @reduced graphene oxide film as an ultra-stable anode for sodium-ion half/full battery. <i>Chemical Engineering Journal</i> , 2021 , 433, 133675	14.7	2
351	Achieving High-Performance Ge Bi Te Thermoelectrics via LaB -Alloying-Induced Band Engineering and Multi-Scale Structure Manipulation. <i>Small</i> , 2021 , e2105923	11	2
350	Advances in conducting polymer-based thermoelectric materials and devices 2021 ,		3
349	Enhanced Thermoelectric Performance of SnTe-Based Materials Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50057-50064	9.5	4
348	High Carrier Mobility and High Figure of Merit in the CuBiSe ₂ Alloyed GeTe. <i>Advanced Energy Materials</i> , 2021 , 11, 2102913	21.8	16
347	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. <i>Applied Physics Reviews</i> , 2021 , 8, 041404	17.3	9
346	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe) ₈₅ (AgSbTe ₂) ₁₅ . <i>Energy Material Advances</i> , 2021 , 2021, 1-8	1	4
345	Mechanical alloying boosted SnTe thermoelectrics. <i>Materials Today Physics</i> , 2021 , 17, 100340	8	14
344	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. <i>Advanced Energy Materials</i> , 2021 , 11, 2100544	21.8	18
343	Hierarchical meso/macro-porous TiO ₂ /graphitic carbon nitride nanofibers with enhanced hydrogen evolution. <i>Materials and Design</i> , 2021 , 202, 109542	8.1	10
342	Rational Electronic and Structural Designs Advance BiCuSeO Thermoelectrics. <i>Advanced Functional Materials</i> , 2021 , 31, 2101289	15.6	17
341	Simultaneously optimized thermoelectric performance of n-type Cu ₂ Se alloyed Bi ₂ Te ₃ . <i>Journal of Solid State Chemistry</i> , 2021 , 296, 121987	3.3	4
340	Carbon allotrope hybrids advance thermoelectric development and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110800	16.2	46
339	Structural Evolution of High-Performance Mn-Alloyed Thermoelectric Materials: A Case Study of SnTe. <i>Small</i> , 2021 , 17, e2100525	11	11
338	Vibrant Color Palettes of Electrochromic Manganese Oxide Electrodes for Colorful Zn-Ion Battery. <i>Advanced Optical Materials</i> , 2021 , 9, 2100637	8.1	6
337	Flexible thermoelectric materials and devices: From materials to applications. <i>Materials Today</i> , 2021 , 46, 62-108	21.8	49

336	Self-Standing Film Assembled using SnS-Sn/Multiwalled Carbon Nanotubes Encapsulated Carbon Fibers: A Potential Large-Scale Production Material for Ultra-stable Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28359-28368	9.5	30
335	Two-dimensional WSe ₂ /SnSe p-n junctions secure ultrahigh thermoelectric performance in n-type Pb/I Co-doped polycrystalline SnSe. <i>Materials Today Physics</i> , 2021 , 16, 100306	8	34
334	Achieving enhanced thermoelectric performance of Ca _{1-x} LaxSryMnO ₃ via synergistic carrier concentration optimization and chemical bond engineering. <i>Chemical Engineering Journal</i> , 2021 , 408, 127364	14.7	5
333	High-efficiency thermocells driven by thermo-electrochemical processes. <i>Trends in Chemistry</i> , 2021 , 3, 561-574	14.8	19
332	Emerging alternative for artificial ammonia synthesis through catalytic nitrate reduction. <i>Journal of Materials Science and Technology</i> , 2021 , 77, 163-168	9.1	22
331	Rational band engineering and structural manipulations inducing high thermoelectric performance in n-type CoSb ₃ thin films. <i>Nano Energy</i> , 2021 , 81, 105683	17.1	42
330	Wearable fiber-based thermoelectrics from materials to applications. <i>Nano Energy</i> , 2021 , 81, 105684	17.1	28
329	A flexible quasi-solid-state thermoelectrochemical cell with high stretchability as an energy-autonomous strain sensor. <i>Materials Horizons</i> , 2021 , 8, 2750-2760	14.4	20
328	Synthesis of thermoelectric materials 2021 , 73-103		1
327	Identification of embedded nanotwins at c-Si/a-Si:H interface limiting the performance of high-efficiency silicon heterojunction solar cells. <i>Nature Energy</i> , 2021 , 6, 194-202	62.3	17
326	In-Situ Synthesis of MoS ₂ /BiOBr Material via Mechanical Ball Milling for Boosted Photocatalytic Degradation Pollutants Performance. <i>ChemistrySelect</i> , 2021 , 6, 928-936	1.8	2
325	Revealing cracking and breakage behaviours of gibbsite particles. <i>Ceramics International</i> , 2021 , 47, 4625-4632	4.6	4
324	BiO/BiVO ₄ @graphene oxide van der Waals heterostructures with enhanced photocatalytic activity toward oxygen generation. <i>Journal of Colloid and Interface Science</i> , 2021 , 593, 196-203	9.3	10
323	Constructing Ni ₃ C/2D g-C ₃ N ₄ Photocatalyst and the Internal Catalytic Mechanism Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100171	1.6	
322	Optimizing Electronic Quality Factor toward High-Performance Ge Ta Sb Te Thermoelectrics: The Role of Transition Metal Doping. <i>Advanced Materials</i> , 2021 , 33, e2102575	24	24
321	Full-spectrum responsive photocatalytic activity via non-noble metal Bi decorated mulberry-like BiVO ₄ . <i>Journal of Materials Science and Technology</i> , 2021 , 83, 102-112	9.1	15
320	Conducting polymer-based flexible thermoelectric materials and devices: From mechanisms to applications. <i>Progress in Materials Science</i> , 2021 , 121, 100840	42.2	47
319	Ternary AgSeTe: A Near-Room-Temperature Thermoelectric Material with a Potentially High Figure of Merit. <i>Inorganic Chemistry</i> , 2021 , 60, 14165-14173	5.1	4

318	Synergistic Texturing and Bi/Sb-Te Antisite Doping Secure High Thermoelectric Performance in Bi _{0.5} Sb _{1.5} Te ₃ -Based Thin Films. <i>Advanced Energy Materials</i> , 2021 , 11, 2102578	21.8	10
317	Self-standing and high-performance B ₄ C/Sn/acetylene black@reduced graphene oxide films as sodium-ion half/full battery anodes. <i>Applied Materials Today</i> , 2021 , 24, 101137	6.6	3
316	Synergistic band convergence and defect engineering boost thermoelectric performance of SnTe. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 204-209	9.1	12
315	Boosting the thermoelectric performance of n-type Bi ₂ S ₃ by hierarchical structure manipulation and carrier density optimization. <i>Nano Energy</i> , 2021 , 87, 106171	17.1	7
314	Simultaneously enhanced strength and plasticity of Ag ₂ Se-based thermoelectric materials endowed by nano-twinned CuAgSe secondary phase. <i>Acta Materialia</i> , 2021 , 117335	8.4	5
313	Quasi-Vertically Oriented SbSe Thin-Film Solar Cells with Open-Circuit Voltage Exceeding 500 mV Prepared via Close-Space Sublimation and Selenization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46671-46680	9.5	15
312	Thermoelectric Coolers as Thermal Management Systems for Medical Applications: Design, Optimization, and Advancement. <i>Nano Energy</i> , 2021 , 106572	17.1	8
311	Thermoelectric performance of p-type (Bi,Sb) ₂ Te ₃ incorporating amorphous Sb ₂ S ₃ nanospheres. <i>Chemical Engineering Journal</i> , 2021 , 430, 132738	14.7	5
310	Advances and challenges in 2D MXenes: From structures to energy storage and conversions. <i>Nano Today</i> , 2021 , 40, 101273	17.9	19
309	In-situ growth of high-performance (Ag, Sn) co-doped CoSb ₃ thermoelectric thin films. <i>Journal of Materials Science and Technology</i> , 2021 , 92, 178-185	9.1	3
308	Enhanced thermoelectric performance in MXene/SnTe nanocomposites synthesized via a facile one-step solvothermal method. <i>Journal of Solid State Chemistry</i> , 2021 , 304, 122605	3.3	2
307	Double perovskite Pr ₂ CoFeO ₆ thermoelectric oxide: Roles of Sr-doping and Micro/nanostructuring. <i>Chemical Engineering Journal</i> , 2021 , 425, 130668	14.7	9
306	Fiber-based thermoelectrics for solid, portable, and wearable electronics. <i>Energy and Environmental Science</i> , 2021 , 14, 729-764	35.4	65
305	Solar driven high efficiency hydrogen evolution catalyzed by surface engineered ultrathin carbon nitride. <i>New Journal of Chemistry</i> , 2020 , 44, 19314-19322	3.6	0
304	Hierarchical Structures Advance Thermoelectric Properties of Porous n-type BiAgSe. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51523-51529	9.5	29
303	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. <i>Energy and Environmental Science</i> , 2020 , 13, 1856-1864	35.4	73
302	Ellagic acid-Fe nanoscale coordination polymer with higher longitudinal relaxivity for dual-modality T-weighted magnetic resonance and photoacoustic tumor imaging. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 28, 102219	6	4
301	Atomic Investigation on the Facet-Dependent Melting of Ceramic Nanostructures via In Situ Electron Irradiation. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000288	4.6	0

300	Facile synthesis of hierarchical Ni ₃ Se ₂ nanodendrite arrays for supercapacitors. <i>Journal of Materials Science and Technology</i> , 2020 , 54, 69-76	9.1	23
299	Flexible Carbon-Fiber/Semimetal Bi Nanosheet Arrays as Separable and Recyclable Plasmonic Photocatalysts and Photoelectrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24845-24854	9.5	123
298	Two-dimensional nanocoating-enabled orthopedic implants for bimodal therapeutic applications. <i>Nanoscale</i> , 2020 , 12, 11936-11946	7.7	26
297	Bi _{0.5} Sb _{1.5} Te ₃ /PEDOT:PSS-based flexible thermoelectric film and device. <i>Chemical Engineering Journal</i> , 2020 , 397, 125360	14.7	66
296	CO ₂ derived nanoporous carbons for carbon capture. <i>Microporous and Mesoporous Materials</i> , 2020 , 305, 110356	5.3	7
295	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. <i>Sustainable Materials and Technologies</i> , 2020 , 25, e00183	5.3	2
294	Bacteria-Triggered pH-Responsive Osteopotentiating Coating on 3D-Printed Polyetheretherketone Scaffolds for Infective Bone Defect Repair. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12123-12135	3.9	15
293	Intercalation-Induced Disintegrated Layer-By-Layer Growth of Ultrathin Ternary Mo(TeS) Plates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30980-30989	9.5	4
292	An effective combination reaction involved with sputtered and selenized Sb precursors for efficient Sb ₂ Se ₃ thin film solar cells. <i>Chemical Engineering Journal</i> , 2020 , 393, 124599	14.7	58
291	Synergistic modulation of power factor and thermal conductivity in Cu ₃ SbSe ₄ towards high thermoelectric performance. <i>Nano Energy</i> , 2020 , 71, 104658	17.1	18
290	A synergy of strain loading and laser radiation in determining the high-performing electrical transports in the single Cu-doped SnSe microbelt. <i>Materials Today Physics</i> , 2020 , 13, 100198	8	13
289	Tuning wall thickness of TiO microtubes for an enhanced photocatalytic activity with thickness-dependent charge separation efficiency. <i>Journal of Colloid and Interface Science</i> , 2020 , 579, 463-469	9.3	12
288	Advanced Thermoelectric Design: From Materials and Structures to Devices. <i>Chemical Reviews</i> , 2020 , 120, 7399-7515	68.1	482
287	Graphene Oxide and Adiponectin-Functionalized Sulfonated Poly(etheretherketone) with Effective Osteogenicity and Remotely Repeatable Photodisinfection. <i>Chemistry of Materials</i> , 2020 , 32, 2180-2193	9.6	36
286	Cracking behaviour and mechanism at grain boundary of gibbsite during calcination. <i>Ceramics International</i> , 2020 , 46, 12067-12072	5.1	1
285	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2192-2199	6.1	12
284	High-Performance Thermoelectric SnSe: Aqueous Synthesis, Innovations, and Challenges. <i>Advanced Science</i> , 2020 , 7, 1902923	13.6	85
283	Promising and Eco-Friendly Cu X-Based Thermoelectric Materials: Progress and Applications. <i>Advanced Materials</i> , 2020 , 32, e1905703	24	92

282	Establishing the Golden Range of Seebeck Coefficient for Maximizing Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2672-2681	16.4	82
281	Correlation between the photocatalysis and growth mechanism of SnO ₂ nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 154005	3	4
280	Texture-dependent thermoelectric properties of nano-structured Bi ₂ Te ₃ . <i>Chemical Engineering Journal</i> , 2020 , 388, 124295	14.7	72
279	Atomic-Layered Bi ₂ O ₅ Nanosheets Obtained via Fast Gas-Driven Exfoliation for Superior Aerobic Oxidative Desulfurization. <i>Energy & Fuels</i> , 2020 , 34, 2612-2616	4.1	17
278	Ionic liquid induced mechanochemical synthesis of BiOBr ultrathin nanosheets at ambient temperature with superior visible-light-driven photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2020 , 574, 131-139	9.3	21
277	End-to-end relation extraction based on bootstrapped multi-level distant supervision. <i>World Wide Web</i> , 2020 , 23, 2933-2956	2.9	3
276	Thermo-Responsive Nanomaterials for Thermoelectric Generation. <i>Springer Series in Materials Science</i> , 2020 , 269-293	0.9	
275	Cu ₂ Se thermoelectrics: property, methodology, and device. <i>Nano Today</i> , 2020 , 35, 100938	17.9	57
274	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. <i>Energy and Environmental Science</i> , 2020 , 13, 3480-3488	35.4	27
273	Enhanced thermoelectric properties of nanostructured n-type Bi ₂ Te ₃ by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , 2020 , 391, 123513	14.7	58
272	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Lattice-Oxygen Active Sites in a Complex Oxide. <i>Advanced Materials</i> , 2020 , 32, e1905025	24	122
271	Outstanding thermoelectric properties of solvothermal-synthesized Sn _{1-x} In _x Ag ₂ Te micro-crystals through defect engineering and band tuning. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3978-3987	13	19
270	Exploring thermoelectric performance of Ca ₃ Co ₄ O ₉ + ceramics via chemical electroless plating with Cu. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153522	5.7	5
269	Nitriding Nickel-Based Cocatalyst: A Strategy To Maneuver Hydrogen Evolution Capacity for Enhanced Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 884-892	8.3	20
268	Synergistic effect approaching record-high figure of merit in the shear exfoliated n-type Bi ₂ O ₂ - _{2x} Te _{2x} Se. <i>Nano Energy</i> , 2020 , 69, 104394	17.1	24
267	Optimization of sodium hydroxide for securing high thermoelectric performance in polycrystalline Sn _{1-x} Se via anisotropy and vacancy synergy. <i>Information Materials</i> , 2020 , 2, 1201-1215	23.1	31
266	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. <i>Joule</i> , 2020 , 4, 2030-2043	27.8	90
265	Point defect engineering and machinability in n-type Mg ₃ Sb ₂ -based materials. <i>Materials Today Physics</i> , 2020 , 15, 100269	8	25

264	In situ crystal-amorphous compositing inducing ultrahigh thermoelectric performance of p-type Bi _{0.5} Sb _{1.5} Te ₃ hybrid thin films. <i>Nano Energy</i> , 2020 , 78, 105379	17.1	10
263	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36370-36379 ⁸	9.5	8
262	Hierarchical SnS ₂ /carbon nanotube@reduced graphene oxide composite as an anode for ultra-stable sodium-ion batteries. <i>Chemical Engineering Journal Advances</i> , 2020 , 4, 100053	3.6	13
261	SrTiO ₃ -based thermoelectrics: Progress and challenges. <i>Nano Energy</i> , 2020 , 78, 105195	17.1	52
260	Rational structural design and manipulation advance SnSe thermoelectrics. <i>Materials Horizons</i> , 2020 , 7, 3065-3096	14.4	37
259	Thermoelectric Generators: Alternative Power Supply for Wearable Electrocardiographic Systems. <i>Advanced Science</i> , 2020 , 7, 2001362	13.6	84
258	Nanostructured monoclinic CuSe as a near-room-temperature thermoelectric material. <i>Nanoscale</i> , 2020 , 12, 20536-20542	7.7	17
257	Scandium and phosphorus co-doped perovskite oxides as high-performance electrocatalysts for the oxygen reduction reaction in an alkaline solution. <i>Journal of Materials Science and Technology</i> , 2020 , 39, 22-27	9.1	10
256	Construction of ultrathin MoS ₂ /BiOI composites: Effective charge separation and increased photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 475-484	9.3	20
255	High-Performance GeTe-Based Thermoelectrics: from Materials to Devices. <i>Advanced Energy Materials</i> , 2020 , 10, 2000367	21.8	94
254	Crystal symmetry induced structure and bonding manipulation boosting thermoelectric performance of GeTe. <i>Nano Energy</i> , 2020 , 73, 104740	17.1	42
253	One-step Mechanical Synthesis of Oxygen-defect Modified Ultrathin Bi ₁₂ O ₁₇ Br ₂ Nanosheets for Boosting Photocatalytic Activity. <i>ChemistrySelect</i> , 2020 , 5, 11177-11184	1.8	5
252	Enhanced hydrogen generation behaviors and hydrolysis thermodynamics of as-cast Mg ₉₁ Ni ₉ Te magnesium-rich alloys in simulate seawater. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24086-24097	6.7	26
251	Realizing high thermoelectric properties of SnTe via synergistic band engineering and structure engineering. <i>Nano Energy</i> , 2019 , 65, 104056	17.1	70
250	Super Large SnSe Single Crystals with Excellent Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8051-8059	9.5	27
249	Solvothermal synthesis of high-purity porous Cu _{1.7} Se approaching low lattice thermal conductivity. <i>Chemical Engineering Journal</i> , 2019 , 375, 121996	14.7	21
248	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7212-7218 ^{7.1}	7.1	6
247	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. <i>Advanced Materials</i> , 2019 , 31, e1807916	24	255

246	Carbon-Encapsulated Copper Sulfide Leading to Enhanced Thermoelectric Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22457-22463	9.5	22
245	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019 , 4, 1231-1240	20.1	83
244	Realizing Bi-doped BiCu_2Se as a promising near-room-temperature thermoelectric material. <i>Chemical Engineering Journal</i> , 2019 , 371, 593-599	14.7	34
243	Coordination-controlled single-atom tungsten as a non-3d-metal oxygen reduction reaction electrocatalyst with ultrahigh mass activity. <i>Nano Energy</i> , 2019 , 60, 394-403	17.1	80
242	Enhancing Thermoelectric Properties of InTe Nanoprecipitate-Embedded $\text{Sn}_{1-x}\text{In}_x\text{Te}$ Microcrystals through Anharmonicity and Strain Engineering. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2965-2971	6.1	31
241	Nanoscale pores plus precipitates rendering high-performance thermoelectric $\text{SnTe}_{1-x}\text{Sex}$ with refined band structures. <i>Nano Energy</i> , 2019 , 60, 1-7	17.1	66
240	Separable and recyclable meso-carbon@TiO ₂ /carbon fiber composites for visible-light photocatalysis and photoelectrocatalysis. <i>Sustainable Materials and Technologies</i> , 2019 , 21, e00105	5.3	13
239	Kinetic condition driven phase and vacancy enhancing thermoelectric performance of low-cost and eco-friendly Cu_2S . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5366-5373	7.1	20
238	High Thermoelectric Performance in p-type Polycrystalline Cd-doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. <i>Advanced Energy Materials</i> , 2019 , 9, 1803242	21.8	99
237	Thermoelectric GeTe with Diverse Degrees of Freedom Having Secured Superhigh Performance. <i>Advanced Materials</i> , 2019 , 31, e1807071	24	134
236	High Porosity in Nanostructured -Type BiTe Obtaining Ultralow Lattice Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31237-31244	9.5	50
235	Significance of Partial Substitution of Carbon by Nitrogen on Strengthening and Toughening Mechanisms of High Nitrogen Fe-15Cr-1Mo-C-N Martensitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4987-4999	2.3	11
234	Bioinspired and osteopromotive polydopamine nanoparticle-incorporated fibrous membranes for robust bone regeneration. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	35
233	Designing for high corrosion-resistant high nitrogen martensitic stainless steel based on DFT calculation and pressurized metallurgy method. <i>Corrosion Science</i> , 2019 , 158, 108081	6.8	37
232	Moisture-Driven Power Generation for Multifunctional Flexible Sensing Systems. <i>Nano Letters</i> , 2019 , 19, 5544-5552	11.5	39
231	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. <i>Chemistry of Materials</i> , 2019 , 31, 5238-5244	9.6	102
230	- Observation of the Continuous Phase Transition in Determining the High Thermoelectric Performance of Polycrystalline SnSe. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6512-6517	6.4	22
229	Facile synthesis and characterization of multifunctional cobalt-based nanocomposites for targeted chemo-photothermal synergistic cancer therapy. <i>Composites Part B: Engineering</i> , 2019 , 178, 107521	10	15

228	Anisotropy Control Induced Unique Anisotropic Thermoelectric Performance in the n-Type Bi ₂ Te _{2.7} Se _{0.3} Thin Films. <i>Small Methods</i> , 2019 , 3, 1900582	12.8	38
227	Empowering Metal Phosphides Anode with Catalytic Attribute toward Superior Cyclability for Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1809051	15.6	39
226	The Study of Atmospheric Pressure CVD Growth Process of MoxW _{1-x} Te ₂ Nanobelts for Tuneable Chemical Composition. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 678, 012149	0.4	
225	A new indium selenide phase: controllable synthesis, phase transformation and photoluminescence properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13573-13584	7.1	4
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