

# Zhi-Gang Chen

## List of Publications by Citations

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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  
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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	Unique electronic structure induced high photoreactivity of sulfur-doped graphitic C <sub>3</sub> N <sub>4</sub> . <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11642-8	16.4	1597
370	Fabrication of Graphene/Polyaniline Composite Paper via In Situ Anodic Electropolymerization for High-Performance Flexible Electrode. <i>ACS Nano</i> , <b>2009</b> , 3, 1745-52	16.7	1355
369	Nanostructured thermoelectric materials: Current research and future challenge. <i>Progress in Natural Science: Materials International</i> , <b>2012</b> , 22, 535-549	3.6	485
368	Advanced Thermoelectric Design: From Materials and Structures to Devices. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7399-7515	68.1	482
367	Synthesis and Electrochemical Property of Boron-Doped Mesoporous Carbon in Supercapacitor. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 7195-7200	9.6	451
366	Enhanced photocatalytic hydrogen evolution by prolonging the lifetime of carriers in ZnO/CdS heterostructures. <i>Chemical Communications</i> , <b>2009</b> , 3452-4	5.8	433
365	Noble metal-comparable SERS enhancement from semiconducting metal oxides by making oxygen vacancies. <i>Nature Communications</i> , <b>2015</b> , 6, 7800	17.4	375
364	High Performance Thermoelectric Materials: Progress and Their Applications. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701797	21.8	371
363	Manipulating surface states in topological insulator nanoribbons. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 216-218.7	18.7	352
362	SrNb <sub>0.1</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> perovskite as a next-generation electrocatalyst for oxygen evolution in alkaline solution. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3897-901	16.4	345
361	Yolk-Shell Hybrid Materials with a Periodic Mesoporous Organosilica Shell: Ideal Nanoreactors for Selective Alcohol Oxidation. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 591-599	15.6	330
360	Nitrogen-doped carbon monolith for alkaline supercapacitors and understanding nitrogen-induced redox transitions. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 5345-51	4.8	317
359	High-performance SnSe thermoelectric materials: Progress and future challenge. <i>Progress in Materials Science</i> , <b>2018</b> , 97, 283-346	42.2	273
358	Magnetic Hollow Spheres of Periodic Mesoporous Organosilica and Fe <sub>3</sub> O <sub>4</sub> Nanocrystals: Fabrication and Structure Control. <i>Advanced Materials</i> , <b>2008</b> , 20, 805-809	24	266
357	Band-to-Band Visible-Light Photon Excitation and Photoactivity Induced by Homogeneous Nitrogen Doping in Layered Titanates. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1266-1274	9.6	259
356	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807916	24	255
355	Carbon Quantum Dots Modified BiOCl Ultrathin Nanosheets with Enhanced Molecular Oxygen Activation Ability for Broad Spectrum Photocatalytic Properties and Mechanism Insight. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20111-23	9.5	252

354	n-Type Bi <sub>2</sub> Te <sub>3</sub> -xSex Nanoplates with Enhanced Thermoelectric Efficiency Driven by Wide-Frequency Phonon Scatterings and Synergistic Carrier Scatterings. <i>ACS Nano</i> , <b>2016</b> , 10, 4719-27	16.7	235
353	Realizing zT of 2.3 in Ge Sb In Te via Reducing the Phase-Transition Temperature and Introducing Resonant Energy Doping. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705942	24	228
352	Eco-Friendly SnTe Thermoelectric Materials: Progress and Future Challenges. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703278	15.6	220
351	Visible light photocatalyst: iodine-doped mesoporous titania with a bicrystalline framework. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 20823-8	3.4	220
350	One-pot extraction combined with metal-free photochemical aerobic oxidative desulfurization in deep eutectic solvent. <i>Green Chemistry</i> , <b>2015</b> , 17, 2464-2472	10	204
349	Indium selenides: structural characteristics, synthesis and their thermoelectric performances. <i>Small</i> , <b>2014</b> , 10, 2747-65	11	201
348	Tunable Ambipolar Polarization-Sensitive Photodetectors Based on High-Anisotropy ReSe <sub>2</sub> Nanosheets. <i>ACS Nano</i> , <b>2016</b> , 10, 8067-77	16.7	200
347	Carbon for the oxygen reduction reaction: a defect mechanism. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11736-11739	13	184
346	Nitrogen-Doped Carbon Quantum Dots/BiOBr Ultrathin Nanosheets: In Situ Strong Coupling and Improved Molecular Oxygen Activation Ability under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 136-146	8.3	182
345	Nanosized Anatase TiO <sub>2</sub> Single Crystals with Tunable Exposed (001) Facets for Enhanced Energy Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4167-4172	15.6	178
344	Novel boron nitride hollow nanoribbons. <i>ACS Nano</i> , <b>2008</b> , 2, 2183-91	16.7	173
343	A template-free solvent-mediated synthesis of high surface area boron nitride nanosheets for aerobic oxidative desulfurization. <i>Chemical Communications</i> , <b>2016</b> , 52, 144-7	5.8	170
342	ZnO@CdS@Cd Heterostructure for Effective Photocatalytic Hydrogen Generation. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 42-46	21.8	170
341	High-performance thermoelectric Cu <sub>2</sub> Se nanoplates through nanostructure engineering. <i>Nano Energy</i> , <b>2015</b> , 16, 367-374	17.1	169
340	N-doped mesoporous carbon spheres as the oxygen reduction reaction catalysts. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18139-18146	13	168
339	Arrayed Van Der Waals Broadband Detectors for Dual-Band Detection. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604439	24	161
338	Enhanced Thermoelectric Performance of Nanostructured Bi <sub>2</sub> Te <sub>3</sub> through Significant Phonon Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 23694-9	9.5	155
337	Amorphous TiO(2) nanotube arrays for low-temperature oxygen sensors. <i>Nanotechnology</i> , <b>2008</b> , 19, 405504	15.4	154

336	Weak anti-localization and quantum oscillations of surface states in topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Scientific Reports</i> , <b>2012</b> , 2, 726	4.9	145
335	Strong Phonon-Phonon Interactions Securing Extraordinary Thermoelectric GeSb <sub>2</sub> Te with Zn-Alloying-Induced Band Alignment. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 1742-1748	16.4	145
334	Structural evolution of graphene quantum dots during thermal decomposition of citric acid and the corresponding photoluminescence. <i>Carbon</i> , <b>2015</b> , 82, 304-313	10.4	144
333	Construction of a 2D Graphene-Like MoS <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> Heterojunction with Enhanced Visible-Light Photocatalytic Activity and Photoelectrochemical Activity. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 4764-4773	4.8	135
332	Thermoelectric GeTe with Diverse Degrees of Freedom Having Secured Superhigh Performance. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807071	24	134
331	Flexible Carbon-Fiber/Semimetal Bi Nanosheet Arrays as Separable and Recyclable Plasmonic Photocatalysts and Photoelectrocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24845-24854	2.5	123
330	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Lattice-Oxygen Active Sites in a Complex Oxide. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905025	24	122
329	High activity electrocatalysts from metal-organic framework-carbon nanotube templates for the oxygen reduction reaction. <i>Carbon</i> , <b>2015</b> , 82, 417-424	10.4	121
328	Constructing confined surface carbon defects in ultrathin graphitic carbon nitride for photocatalytic free radical manipulation. <i>Carbon</i> , <b>2016</b> , 107, 1-10	10.4	121
327	Arrayed van der Waals Vertical Heterostructures Based on 2D GaSe Grown by Molecular Beam Epitaxy. <i>Nano Letters</i> , <b>2015</b> , 15, 3571-7	11.5	119
326	Gate-controlled surface conduction in Na-doped Bi <sub>2</sub> Te <sub>3</sub> topological insulator nanoplates. <i>Nano Letters</i> , <b>2012</b> , 12, 1170-5	11.5	119
325	Iodine doped anatase TiO <sub>2</sub> photocatalyst with ultra-long visible light response: correlation between geometric/electronic structures and mechanisms. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2822		119
324	Defect-driven oxygen reduction reaction (ORR) of carbon without any element doping. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 417-421	6.8	117
323	Arrays of Planar Vacancies in Superior Thermoelectric Ge <sub>1-x</sub> C <sub>x</sub> Bi <sub>y</sub> Te with Band Convergence. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801837	21.8	116
322	Bidirectional acceleration of carrier separation spatially via N-CQDs/atomically-thin BiOI nanosheets nanojunctions for manipulating active species in a photocatalytic process. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5051-5061	13	110
321	Zeeman splitting and dynamical mass generation in Dirac semimetal ZrTe <sub>5</sub> . <i>Nature Communications</i> , <b>2016</b> , 7, 12516	17.4	108
320	Novel B-site ordered double perovskite Ba <sub>2</sub> Bi <sub>0.1</sub> Sc <sub>0.2</sub> Co <sub>1.7</sub> O <sub>6</sub> for highly efficient oxygen reduction reaction. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 872-875	35.4	108
319	Synthesis of rutile-anatase core-shell structured TiO <sub>2</sub> for photocatalysis. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6590		108

3 <sup>18</sup>	Bioinspired Design of Strong, Tough, and Thermally Stable Polymeric Materials via Nanoconfinement. <i>ACS Nano</i> , <b>2018</b> , 12, 9266-9278	16.7	108
3 <sup>17</sup>	Granular Nanostructure: A Facile Biomimetic Strategy for the Design of Supertough Polymeric Materials with High Ductility and Strength. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704661	24	105
3 <sup>16</sup>	Synthesis of g-C <sub>3</sub> N <sub>4</sub> at different temperatures for superior visible/UV photocatalytic performance and photoelectrochemical sensing of MB solution. <i>RSC Advances</i> , <b>2015</b> , 5, 101552-101562	3.7	105
3 <sup>15</sup>	Different Morphologies of SnS <sub>2</sub> Supported on 2D g-C <sub>3</sub> N <sub>4</sub> for Excellent and Stable Visible Light Photocatalytic Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5132-5141	8.3	102
3 <sup>14</sup>	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5238-5244	9.6	102
3 <sup>13</sup>	Achieving $zT > 2$ in p-Type AgSbTe <sub>2-x</sub> Sex Alloys via Exploring the Extra Light Valence Band and Introducing Dense Stacking Faults. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702333	21.8	100
3 <sup>12</sup>	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> , <b>2019</b> , 9, 1803242	21.8	99
3 <sup>11</sup>	A general single-source route for the preparation of hollow nanoporous metal oxide structures. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 7048-51	16.4	99
3 <sup>10</sup>	Landau level splitting in Cd <sub>3</sub> As <sub>2</sub> under high magnetic fields. <i>Nature Communications</i> , <b>2015</b> , 6, 7779	17.4	98
3 <sup>09</sup>	The role of crystal phase in determining photocatalytic activity of nitrogen doped TiO <sub>2</sub> . <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 329, 331-8	9.3	98
3 <sup>08</sup>	Polycrystalline SnSe with Extraordinary Thermoelectric Property via Nanoporous Design. <i>ACS Nano</i> , <b>2018</b> , 12, 11417-11425	16.7	98
3 <sup>07</sup>	High-Performance GeTe-Based Thermoelectrics: from Materials to Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000367	21.8	94
3 <sup>06</sup>	High-performance dual-gate carbon nanotube FETs with 40-nm gate length. <i>IEEE Electron Device Letters</i> , <b>2005</b> , 26, 823-825	4.4	93
3 <sup>05</sup>	Promising and Eco-Friendly Cu X-Based Thermoelectric Materials: Progress and Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905703	24	92
3 <sup>04</sup>	ZnS branched architectures as optoelectronic devices and field emitters. <i>Advanced Materials</i> , <b>2010</b> , 22, 2376-80	24	92
3 <sup>03</sup>	Boosting the thermoelectric performance of p-type heavily Cu-doped polycrystalline SnSe inducing intensive crystal imperfections and defect phonon scattering. <i>Chemical Science</i> , <b>2018</b> , 9, 7376-7389	9.4	91
3 <sup>02</sup>	Aligned Titania Nanotubes as an Intercalation Anode Material for Hybrid Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3787-3793	15.6	91
3 <sup>01</sup>	Eco-Friendly Higher Manganese Silicide Thermoelectric Materials: Progress and Future Challenges. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800056	21.8	90

300	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. <i>Joule</i> , <b>2020</b> , 4, 2030-2043	27.8	90
299	Bi <sub>2</sub> Sb <sub>2</sub> Te <sub>3</sub> nanoplates with enhanced thermoelectric performance due to sufficiently decoupled electronic transport properties and strong wide-frequency phonon scatterings. <i>Nano Energy</i> , <b>2016</b> , 20, 144-155	17.1	88
298	Realizing High Thermoelectric Performance in n-Type Highly Distorted Sb-Doped SnSe Microplates via Tuning High Electron Concentration and Inducing Intensive Crystal Defects. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800775	21.8	86
297	High-Performance Thermoelectric SnSe: Aqueous Synthesis, Innovations, and Challenges. <i>Advanced Science</i> , <b>2020</b> , 7, 1902923	13.6	85
296	Nitrogen-doped titania nanosheets towards visible light response. <i>Chemical Communications</i> , <b>2009</b> , 1383-5	3.5	85
295	n-type Bi-doped PbTe Nanocubes with Enhanced Thermoelectric Performance. <i>Nano Energy</i> , <b>2017</b> , 31, 105-112	17.1	84
294	Thermoelectric Generators: Alternative Power Supply for Wearable Electrocardiographic Systems. <i>Advanced Science</i> , <b>2020</b> , 7, 2001362	13.6	84
293	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1231-1240	20.1	83
292	Room-temperature chiral charge pumping in Dirac semimetals. <i>Nature Communications</i> , <b>2017</b> , 8, 13741	17.4	82
291	Establishing the Golden Range of Seebeck Coefficient for Maximizing Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 2672-2681	16.4	82
290	An array of Eiffel-tower-shape AlN nanotips and its field emission properties. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 233104	3.4	82
289	Coordination-controlled single-atom tungsten as a non-3d-metal oxygen reduction reaction electrocatalyst with ultrahigh mass activity. <i>Nano Energy</i> , <b>2019</b> , 60, 394-403	17.1	80
288	N-CQDs accelerating surface charge transfer of Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> hollow nanotubes with broad spectrum photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 1033-1043	21.8	80
287	Achieving high Figure of Merit in p-type polycrystalline Sn <sub>0.98</sub> Se via self-doping and anisotropy-strengthening. <i>Energy Storage Materials</i> , <b>2018</b> , 10, 130-138	19.4	79
286	An A-site-deficient perovskite offers high activity and stability for low-temperature solid-oxide fuel cells. <i>ChemSusChem</i> , <b>2013</b> , 6, 2249-54	8.3	77
285	Diameter-selective growth of single-walled carbon nanotubes with high quality by floating catalyst method. <i>ACS Nano</i> , <b>2008</b> , 2, 1722-8	16.7	75
284	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1856-1864	35.4	73
283	A new type of carbon nitride-based polymer composite for enhanced photocatalytic hydrogen production. <i>Chemical Communications</i> , <b>2014</b> , 50, 6762-4	5.8	73

282	Texture-dependent thermoelectric properties of nano-structured Bi <sub>2</sub> Te <sub>3</sub> . <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124295	14.7	72
281	Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4193-4198	9.6	72
280	A new cathode for solid oxide fuel cells capable of in situ electrochemical regeneration. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15343		71
279	Realizing high thermoelectric properties of SnTe via synergistic band engineering and structure engineering. <i>Nano Energy</i> , <b>2019</b> , 65, 104056	17.1	70
278	Photocatalytic water oxidation on F, N co-doped TiO <sub>2</sub> with dominant exposed {001} facets under visible light. <i>Chemical Communications</i> , <b>2011</b> , 47, 11742-4	5.8	70
277	Enhancing the thermoelectric performance of SnSe <sub>1-x</sub> Tex nanoplates through band engineering. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10713-10721	13	68
276	Fundamental and progress of Bi <sub>2</sub> Te <sub>3</sub> -based thermoelectric materials. <i>Chinese Physics B</i> , <b>2018</b> , 27, 048403		68
275	Te-Doped Cu <sub>2</sub> Se nanoplates with a high average thermoelectric figure of merit. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9213-9219	13	67
274	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe <sub>1-x</sub> Sex with refined band structures. <i>Nano Energy</i> , <b>2019</b> , 60, 1-7	17.1	66
273	Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> /PEDOT:PSS-based flexible thermoelectric film and device. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125360	14.7	66
272	Scalable low-cost SnS(2) nanosheets as counter electrode building blocks for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 8670-6	4.8	66
271	Drastically enhanced photocatalytic activity in nitrogen doped mesoporous TiO <sub>2</sub> with abundant surface states. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 334, 171-5	9.3	66
270	Fiber-based thermoelectrics for solid, portable, and wearable electronics. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 729-764	35.4	65
269	SrNb <sub>0.1</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> O <sub>3</sub> Perovskite as a Next-Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3969-3973	3.6	64
268	Influence of nitrogen on corrosion behaviour of high nitrogen martensitic stainless steels manufactured by pressurized metallurgy. <i>Corrosion Science</i> , <b>2018</b> , 144, 288-300	6.8	64
267	Synthesis of different magnetic carbon nanostructures by the pyrolysis of ferrocene at different sublimation temperatures. <i>Carbon</i> , <b>2008</b> , 46, 1892-1902	10.4	63
266	Constructing carbon quantum dots/Bi <sub>2</sub> SiO <sub>5</sub> ultrathin nanosheets with enhanced photocatalytic activity and mechanism investigation. <i>Chemical Engineering Journal</i> , <b>2016</b> , 302, 334-343	14.7	63
265	Ultrahigh-performance tungsten-doped perovskites for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9854-9859	13	60

264	Synthesis and photoluminescence of tetrapod ZnO nanostructures. <i>Chemical Physics Letters</i> , <b>2007</b> , 434, 301-305	2.5	59
263	An effective combination reaction involved with sputtered and selenized Sb precursors for efficient Sb <sub>2</sub> Se <sub>3</sub> thin film solar cells. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124599	14.7	58
262	Impacts of Cu deficiency on the thermoelectric properties of Cu <sub>2</sub> Se nanoplates. <i>Acta Materialia</i> , <b>2016</b> , 113, 140-146	8.4	58
261	Efficient and stable photocatalytic H <sub>2</sub> evolution from water splitting by (Cd <sub>0.8</sub> Zn <sub>0.2</sub> )S nanorods. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1174-1178	5.1	58
260	Enhanced thermoelectric properties of nanostructured n-type Bi <sub>2</sub> Te <sub>3</sub> by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123513	14.7	58
259	Nitrogen doping in ion-exchangeable layered tantalate towards visible-light induced water oxidation. <i>Chemical Communications</i> , <b>2011</b> , 47, 6293-5	5.8	57
258	Cu <sub>2</sub> Se thermoelectrics: property, methodology, and device. <i>Nano Today</i> , <b>2020</b> , 35, 100938	17.9	57
257	Silicon-induced oriented ZnS nanobelts for hydrogen sensitivity. <i>Nanotechnology</i> , <b>2008</b> , 19, 055710	3.4	56
256	Enhancing thermoelectric performance of Bi <sub>2</sub> Te <sub>3</sub> -based nanostructures through rational structure design. <i>Nanoscale</i> , <b>2016</b> , 8, 8681-6	7.7	55
255	Graphene-Oxide-Decorated Microporous Polyetheretherketone with Superior Antibacterial Capability and In Vitro Osteogenesis for Orthopedic Implant. <i>Macromolecular Bioscience</i> , <b>2018</b> , 18, e1800036	5.5	55
254	Direct synthesis of carbon nanotubes decorated with size-controllable Fe nanoparticles encapsulated by graphitic layers. <i>Carbon</i> , <b>2008</b> , 46, 1417-1423	10.4	54
253	In-doped Bi <sub>2</sub> Se <sub>3</sub> hierarchical nanostructures as anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7109	13	52
252	Semiconducting properties of cup-stacked carbon nanotubes. <i>Carbon</i> , <b>2009</b> , 47, 731-736	10.4	52
251	The role of NH <sub>3</sub> atmosphere in preparing nitrogen-doped TiO <sub>2</sub> by mechanochemical reaction. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 331-335	3.3	52
250	SrTiO <sub>3</sub> -based thermoelectrics: Progress and challenges. <i>Nano Energy</i> , <b>2020</b> , 78, 105195	17.1	52
249	Oxygen vacancies modulated Bi-rich bismuth oxyiodide microspheres with tunable valence band position to boost the photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 612-620	9.3	52
248	T-Shaped Bi <sub>2</sub> Te <sub>3</sub> /Te Heteronanojunctions: Epitaxial Growth, Structural Modeling, and Thermoelectric Properties. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 12458-12464	3.8	51
247	High Porosity in Nanostructured -Type BiTe Obtaining Ultralow Lattice Thermal Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31237-31244	9.5	50



246	Enhanced Thermoelectric Performance of Ultrathin Bi <sub>2</sub> Se <sub>3</sub> Nanosheets through Thickness Control. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500025	6.4	49
245	Flexible thermoelectric materials and devices: From materials to applications. <i>Materials Today</i> , <b>2021</b> , 46, 62-108	21.8	49
244	Attaining ultrahigh thermoelectric performance of direction-solidified bulk n-type Bi <sub>2</sub> Te <sub>2.4</sub> Se <sub>0.6</sub> via its liquid state treatment. <i>Nano Energy</i> , <b>2017</b> , 42, 8-16	17.1	48
243	Graphene-like boron nitride modified bismuth phosphate materials for boosting photocatalytic degradation of enrofloxacin. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 492, 51-60	9.3	47
242	Magnetotransport Properties of Cd <sub>3</sub> As <sub>2</sub> Nanostructures. <i>ACS Nano</i> , <b>2015</b> , 9, 8843-50	16.7	47
241	Rational design of Bi <sub>2</sub> Te <sub>3</sub> polycrystalline whiskers for thermoelectric applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 989-95	9.5	47
240	Growth, Cathodoluminescence and Field Emission of ZnS Tetrapod Tree-like Heterostructures. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3063-3069	15.6	47
239	Conducting polymer-based flexible thermoelectric materials and devices: From mechanisms to applications. <i>Progress in Materials Science</i> , <b>2021</b> , 121, 100840	42.2	47
238	A New Family of Dendrimers with Naphthaline Core and Triphenylamine Branching as a Two-Photon Polymerization Initiator. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 776-784	3.8	46
237	Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite Ba <sub>2</sub> Bi <sub>0.1</sub> Sc <sub>0.2</sub> Co <sub>1.7</sub> O <sub>6</sub> Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1618-1624	9.6	46
236	Carbon allotrope hybrids advance thermoelectric development and applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 141, 110800	16.2	46
235	Growth of Magnetic Yard-Glass Shaped Boron Nitride Nanotubes with Periodic Iron Nanoparticles. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3371-3376	15.6	45
234	Limit of zT enhancement in rocksalt structured chalcogenides by band convergence. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	44
233	New electroless plating method for preparation of highly active CoB catalysts for NaBH <sub>4</sub> hydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 414-425	6.7	44
232	Field Emission and Cathodoluminescence of ZnS Hexagonal Pyramids of Zinc Blende Structured Single Crystals. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 484-490	15.6	42
231	A General Single-Source Route for the Preparation of Hollow Nanoporous Metal Oxide Structures. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 7182-7185	3.6	42
230	Crystal symmetry induced structure and bonding manipulation boosting thermoelectric performance of GeTe. <i>Nano Energy</i> , <b>2020</b> , 73, 104740	17.1	42
229	Rational band engineering and structural manipulations inducing high thermoelectric performance in n-type CoSb <sub>3</sub> thin films. <i>Nano Energy</i> , <b>2021</b> , 81, 105683	17.1	42

228	Controllable Growth of Vertical Heterostructure GaTe(x)Se(1-x)/Si by Molecular Beam Epitaxy. <i>ACS Nano</i> , <b>2015</b> , 9, 8592-8	16.7	41
227	Using Intrinsic Intracrystalline Tunnels for Near-Infrared and Visible-Light Selective Electrochromic Modulation. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700194	8.1	40
226	Ag doping induced abnormal lattice thermal conductivity in Cu <sub>2</sub> Se. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 13225-13231	7.1	40
225	Nano-scale dislocations induced by self-vacancy engineering yielding extraordinary n-type thermoelectric Pb <sub>0.96</sub> -yInySe. <i>Nano Energy</i> , <b>2018</b> , 50, 785-793	17.1	39
224	Moisture-Driven Power Generation for Multifunctional Flexible Sensing Systems. <i>Nano Letters</i> , <b>2019</b> , 19, 5544-5552	11.5	39
223	Empowering Metal Phosphides Anode with Catalytic Attribute toward Superior Cyclability for Lithium-Ion Storage. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1809051	15.6	39
222	Anisotropy Control Induced Unique Anisotropic Thermoelectric Performance in the n-Type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Thin Films. <i>Small Methods</i> , <b>2019</b> , 3, 1900582	12.8	38
221	In situ assembly of multi-sheeted buckybooks from single-walled carbon nanotubes. <i>ACS Nano</i> , <b>2009</b> , 3, 707-13	16.7	38
220	Structure and morphology of microporous carbon membrane materials derived from poly(phthalazinone ether sulfone ketone). <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 96, 79-83	5.3	38
219	A core-shell structured magnetic Ag/AgBr@Fe <sub>2</sub> O <sub>3</sub> composite with enhanced photocatalytic activity for organic pollutant degradation and antibacterium. <i>RSC Advances</i> , <b>2015</b> , 5, 71035-71045	3.7	37
218	Designing for high corrosion-resistant high nitrogen martensitic stainless steel based on DFT calculation and pressurized metallurgy method. <i>Corrosion Science</i> , <b>2019</b> , 158, 108081	6.8	37
217	Rational structural design and manipulation advance SnSe thermoelectrics. <i>Materials Horizons</i> , <b>2020</b> , 7, 3065-3096	14.4	37
216	Graphene Oxide and Adiponectin-Functionalized Sulfonated Poly(etheretherketone) with Effective Osteogenicity and Remotely Repeatable Photodisinfection. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2180-2193	9.6	36
215	Self-assembly and cathodoluminescence of microbelts from Cu-doped boron nitride nanotubes. <i>ACS Nano</i> , <b>2008</b> , 2, 1523-32	16.7	36
214	Modification of Ag <sub>3</sub> VO <sub>4</sub> with graphene-like MoS <sub>2</sub> for enhanced visible-light photocatalytic property and stability. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 2168-2177	3.6	35
213	Bioinspired and osteopromotive polydopamine nanoparticle-incorporated fibrous membranes for robust bone regeneration. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	35
212	Realizing Bi-doped $\beta$ -Cu <sub>2</sub> Se as a promising near-room-temperature thermoelectric material. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 593-599	14.7	34
211	Scalable Growth of High Mobility Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> Microbelts. <i>Nano Letters</i> , <b>2015</b> , 15, 5830-4	11.5	34

210	Observations of a metal-insulator transition and strong surface states in Bi <sub>2-x</sub> Sb <sub>x</sub> Se <sub>3</sub> thin films. <i>Advanced Materials</i> , <b>2014</b> , 26, 7110-5	24	34
209	Purification, preliminary characterization and in vitro immunomodulatory activity of tiger lily polysaccharide. <i>Carbohydrate Polymers</i> , <b>2014</b> , 106, 217-22	10.3	34
208	Field emitters: ultrathin BN nanosheets protruded from BN fibers. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1191-1195		34
207	Two-dimensional WSe <sub>2</sub> /SnSe p-n junctions secure ultrahigh thermoelectric performance in n-type Pb/I Co-doped polycrystalline SnSe. <i>Materials Today Physics</i> , <b>2021</b> , 16, 100306	8	34
206	Highly efficient H <sub>2</sub> evolution over ZnO-ZnS-CdS heterostructures from an aqueous solution containing SO <sub>3</sub> <sup>2-</sup> and S <sup>2-</sup> ions. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 39-44	2.5	33
205	Wafer-scale arrayed p-n junctions based on few-layer epitaxial GaTe. <i>Nano Research</i> , <b>2015</b> , 8, 3332-3341	10	32
204	One-pot extraction and aerobic oxidative desulfurization with highly dispersed V <sub>2</sub> O <sub>5</sub> /SBA-15 catalyst in ionic liquids. <i>RSC Advances</i> , <b>2017</b> , 7, 39383-39390	3.7	32
203	Enhancing Thermoelectric Properties of InTe Nanoprecipitate-Embedded Sn <sub>1-x</sub> In <sub>x</sub> Te Microcrystals through Anharmonicity and Strain Engineering. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2965-2971	6.1	31
202	A Novel Hydrogel Surface Grafted With Dual Functional Peptides for Sustaining Long-Term Self-Renewal of Human Induced Pluripotent Stem Cells and Manipulating Their Osteoblastic Maturation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705546	15.6	31
201	Thermoelectric Performance of Se/Cd Codoped SnTe via Microwave Solvothermal Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22612-22619	9.5	31
200	Optimization of sodium hydroxide for securing high thermoelectric performance in polycrystalline Sn <sub>1-x</sub> Se via anisotropy and vacancy synergy. <i>Information Materials</i> , <b>2020</b> , 2, 1201-1215	23.1	31
199	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 &amp; Interfaces</i> , <b>2021</b> , 13, 28359-28368	9.5	30
198	Enhanced Thermoelectric Properties of Ag-Modified BiSbTe Composites by a Facile Electroless Plating Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36478-36482	9.5	29
197	Hierarchical Structures Advance Thermoelectric Properties of Porous n-type BiAgSe. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51523-51529	9.5	29
196	Self-assembled 3D flower-like hierarchical Ti-doped Cu <sub>3</sub> SbSe <sub>4</sub> microspheres with ultralow thermal conductivity and high zT. <i>Nano Energy</i> , <b>2018</b> , 49, 221-229	17.1	29
195	Highly Efficient Visible-Light-Driven Schottky Catalyst MoN/2D g-C <sub>3</sub> N <sub>4</sub> for Hydrogen Production and Organic Pollutants Degradation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 8863-8870	3.9	29
194	High Curie temperature Bi(1.85)Mn(0.15)Te <sub>3</sub> nanoplates. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18920-3	16.4	29
193	Dual Ag/ZnO-Decorated Micro-/Nanoporous Sulfonated Polyetheretherketone with Superior Antibacterial Capability and Biocompatibility via Layer-by-Layer Self-Assembly Strategy. <i>Macromolecular Bioscience</i> , <b>2018</b> , 18, e1800028	5.5	29

192	A novel bottom-up solvothermal synthesis of carbon nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2390	13	28
191	Wearable fiber-based thermoelectrics from materials to applications. <i>Nano Energy</i> , <b>2021</b> , 81, 105684	17.1	28
190	Super Large SnSe Single Crystals with Excellent Thermoelectric Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 8051-8059	9.5	27
189	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3480-3488	35.4	27
188	High Thermoelectric Performance in Sintered Octahedron-Shaped Sn(CdIn) Te Microcrystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38944-38952	9.5	27
187	Enhanced hydrogen generation behaviors and hydrolysis thermodynamics of as-cast Mg <sub>91</sub> Ni <sub>9</sub> Te magnesium-rich alloys in simulate seawater. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 24086-24097	6.7	26
186	Two-dimensional nanocoating-enabled orthopedic implants for bimodal therapeutic applications. <i>Nanoscale</i> , <b>2020</b> , 12, 11936-11946	7.7	26
185	Correlation between Multiple Growth Stages and Photocatalysis of SrTiO <sub>3</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3530-3537	3.8	26
184	Wurtzite P-Doped GaN Triangular Microtubes as Field Emitters. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 9627-9633	3.8	26
183	Bioinspired, biocompatible and peptide-decorated silk fibroin coatings for enhanced osteogenesis of bioinert implant. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2018</b> , 29, 1595-1611	3.5	26
182	Mechanically Driven Grain Boundary Formation in Nickel Nanowires. <i>ACS Nano</i> , <b>2017</b> , 11, 12500-12508	16.7	25
181	A new crystal: layer-structured rhombohedral In <sub>3</sub> Se <sub>4</sub> . <i>CrystEngComm</i> , <b>2014</b> , 16, 393-398	3.3	25
180	Double-walled carbon nanotubes synthesized using carbon black as the dot carbon source. <i>Nanotechnology</i> , <b>2006</b> , 17, 3100-3104	3.4	25
179	Point defect engineering and machinability in n-type Mg <sub>3</sub> Sb <sub>2</sub> -based materials. <i>Materials Today Physics</i> , <b>2020</b> , 15, 100269	8	25
178	Enhanced reactive oxygen species activation for building carbon quantum dots modified BiOI nanorod composites and optimized visible-light-response photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 727-737	9.3	24
177	Ti <sub>0.89</sub> Si <sub>0.11</sub> O <sub>2</sub> single crystals bound by high-index {201} facets showing enhanced visible-light photocatalytic hydrogen evolution. <i>Chemical Communications</i> , <b>2013</b> , 49, 2016-8	5.8	24
176	Metallic and Ionic Fe Induced Growth of Si <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> Core-Shell Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 15370-15376	3.8	24
175	Synergistic effect approaching record-high figure of merit in the shear exfoliated n-type Bi <sub>2</sub> O <sub>2</sub> - <sub>2x</sub> Te <sub>2x</sub> Se. <i>Nano Energy</i> , <b>2020</b> , 69, 104394	17.1	24

174	Optimizing Electronic Quality Factor toward High-Performance Ge Ta Sb Te Thermoelectrics: The Role of Transition Metal Doping. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102575	24	24
173	Facile synthesis of hierarchical Ni <sub>3</sub> Se <sub>2</sub> nanodendrite arrays for supercapacitors. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 54, 69-76	9.1	23
172	Enhanced antibacterial property and osteo-differentiation activity on plasma treated porous polyetheretherketone with hierarchical micro/nano-topography. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2018</b> , 29, 520-542	3.5	23
171	Anisotropic Electrical Properties from Vapor-Solid-Solid Grown Bi <sub>2</sub> Se <sub>3</sub> Nanoribbons and Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20620-20626	3.8	23
170	Synthesis and Photoelectrochemical Behavior of Nitrogen-doped NaTaO <sub>3</sub> . <i>Chemistry Letters</i> , <b>2009</b> , 38, 214-215	1.7	23
169	Highly (00l)-oriented BiTe/Te heterostructure thin films with enhanced power factor. <i>Nanoscale</i> , <b>2018</b> , 10, 20189-20195	7.7	23
168	Carbon-Encapsulated Copper Sulfide Leading to Enhanced Thermoelectric Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22457-22463	9.5	22
167	- Observation of the Continuous Phase Transition in Determining the High Thermoelectric Performance of Polycrystalline SnSe. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6512-6517	6.4	22
166	Periodicity Dependence of the Built-in Electric Field in (Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> /Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> Ferroelectric Superlattices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26301-6	9.5	22
165	Amino acid assisted synthesis of mesoporous TiO <sub>2</sub> nanocrystals for high performance dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 10438		22
164	Au impact on GaAs epitaxial growth on GaAs (111)B substrates in molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 063106	3.4	22
163	MO degradation by Ag-Ag <sub>2</sub> O/g-C <sub>3</sub> N <sub>4</sub> composites under visible-light irradiation. <i>SpringerPlus</i> , <b>2016</b> , 5, 369		22
162	Emerging alternative for artificial ammonia synthesis through catalytic nitrate reduction. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 77, 163-168	9.1	22
161	A nanohybrid of CdTe@CdS nanocrystals and titania nanosheets with p-n nanojunctions for improved visible light-driven hydrogen production. <i>Catalysis Today</i> , <b>2016</b> , 264, 229-235	5.3	21
160	Solvothermal synthesis of high-purity porous Cu <sub>1.7</sub> Se approaching low lattice thermal conductivity. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121996	14.7	21
159	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> , <b>2020</b> , 574, 131-139	9.3	21
158	First-principles atomistic Wulff constructions for an equilibrium rutile TiO <sub>2</sub> shape modeling. <i>Applied Surface Science</i> , <b>2018</b> , 436, 989-994	6.7	21
157	Kinetic condition driven phase and vacancy enhancing thermoelectric performance of low-cost and eco-friendly Cu <sub>2</sub> S. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5366-5373	7.1	20

156	Enhancing thermoelectric performance of $(\text{Cu}_{1-x}\text{Ag}_x)_2\text{Se}$ via CuAgSe secondary phase and porous design. <i>Sustainable Materials and Technologies</i> , <b>2018</b> , 17, e00076	5.3	20
155	Nitriding Nickel-Based Cocatalyst: A Strategy To Maneuver Hydrogen Evolution Capacity for Enhanced Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 884-892	8.3	20
154	Construction of ultrathin MoS/BiOI composites: Effective charge separation and increased photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 475-484	9.3	20
153	A flexible quasi-solid-state thermoelectrochemical cell with high stretchability as an energy-autonomous strain sensor. <i>Materials Horizons</i> , <b>2021</b> , 8, 2750-2760	14.4	20
152	Paramagnetic Cu-doped Bi <sub>2</sub> Te <sub>3</sub> nanoplates. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 053105	3.4	19
151	Thermal stability and oxidation of layer-structured rhombohedral In <sub>3</sub> Se <sub>4</sub> nanostructures. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 263105	3.4	19
150	Zinc sulfide nanowire arrays on silicon wafers for field emitters. <i>Nanotechnology</i> , <b>2010</b> , 21, 065701	3.4	19
149	Preparation of high purity ZnO nanobelts by thermal evaporation of ZnS. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 704-7	1.3	19
148	Outstanding thermoelectric properties of solvothermal-synthesized Sn <sub>1-<i>B</i></sub> In <sub><i>x</i></sub> Ag <sub>2</sub> Te micro-crystals through defect engineering and band tuning. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3978-3987	13	19
147	High-efficiency thermocells driven by thermo-electrochemical processes. <i>Trends in Chemistry</i> , <b>2021</b> , 3, 561-574	14.8	19
146	Advances and challenges in 2D MXenes: From structures to energy storage and conversions. <i>Nano Today</i> , <b>2021</b> , 40, 101273	17.9	19
145	Morphological control of SnTe nanostructures by tuning catalyst composition. <i>Nano Research</i> , <b>2015</b> , 8, 3011-3019	10	18
144	Synergistic modulation of power factor and thermal conductivity in Cu <sub>3</sub> SbSe <sub>4</sub> towards high thermoelectric performance. <i>Nano Energy</i> , <b>2020</b> , 71, 104658	17.1	18
143	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100544	21.8	18
142	Atomic-Layered V <sub>2</sub> O <sub>5</sub> Nanosheets Obtained via Fast Gas-Driven Exfoliation for Superior Aerobic Oxidative Desulfurization. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 2612-2616	4.1	17
141	Catalytically Enhanced Hydrogen Sorption in Mg-MgH <sub>2</sub> by Coupling Vanadium-Based Catalyst and Carbon Nanotubes. <i>Materials</i> , <b>2015</b> , 8, 3491-3507	3.5	17
140	Novel Thermal Diffusion Temperature Engineering Leading to High Thermoelectric Performance in Bi Te -Based Flexible Thin-Films.. <i>Advanced Science</i> , <b>2021</b> , e2103547	13.6	17
139	Nanostructured monoclinic CuSe as a near-room-temperature thermoelectric material. <i>Nanoscale</i> , <b>2020</b> , 12, 20536-20542	7.7	17

138	Rational Electronic and Structural Designs Advance BiCuSeO Thermoelectrics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101289	15.6	17
137	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> , <b>2021</b> , 6, 194-202	62.3	17
136	Fast preparation of ultrafine monolayered transition-metal dichalcogenide quantum dots using electrochemical shock for explosive detection. <i>Chemical Communications</i> , <b>2016</b> , 52, 11442-11445	5.8	16
135	Achieving high thermoelectric performance of Ni/Cu modified Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> composites by a facile electroless plating. <i>Materials Today Energy</i> , <b>2018</b> , 9, 383-390	7	16
134	Trifold Tellurium One-Dimensional Nanostructures and Their Formation Mechanism. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 4796-4802	3.5	16
133	High Carrier Mobility and High Figure of Merit in the CuBiSe <sub>2</sub> Alloyed GeTe. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102913	21.8	16
132	Bacteria-Triggered pH-Responsive Osteopotentiating Coating on 3D-Printed Polyetheretherketone Scaffolds for Infective Bone Defect Repair. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 12123-12135	3.9	15
131	Facile synthesis and characterization of multifunctional cobalt-based nanocomposites for targeted chemo-photothermal synergistic cancer therapy. <i>Composites Part B: Engineering</i> , <b>2019</b> , 178, 107521	10	15
130	Phase Control and Formation Mechanism of New-Phase Layer-Structured Rhombohedral In <sub>3</sub> Se <sub>4</sub> Hierarchical Nanostructures. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 5092-5099	3.5	15
129	Planar Vacancies in Sn <sub>1-x</sub> Bi <sub>x</sub> Te Nanoribbons. <i>ACS Nano</i> , <b>2016</b> , 10, 5507-15	16.7	15
128	Full-spectrum responsive photocatalytic activity via non-noble metal Bi decorated mulberry-like BiVO <sub>4</sub> . <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 83, 102-112	9.1	15
127	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 &amp; Interfaces</i> , <b>2021</b> , 13, 46671-46680	9.5	15
126	Multifunctional Wearable Thermoelectrics for Personal Thermal Management. <i>Advanced Functional Materials</i> , 2200548	15.6	15
125	Rapid Synthesis of Sub-5 nm Sized Cubic Boron Nitride Nanocrystals with High-Piezoelectric Behavior via Electrochemical Shock. <i>Nano Letters</i> , <b>2017</b> , 17, 355-361	11.5	14
124	Solar Cells: Nanosized Anatase TiO <sub>2</sub> Single Crystals with Tunable Exposed (001) Facets for Enhanced Energy Conversion Efficiency of Dye-Sensitized Solar Cells (Adv. Funct. Mater. 21/2011). <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4166-4166	15.6	14
123	Long wavelength emissions of periodic yard-glass shaped boron nitride nanotubes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 023105	3.4	14
122	Synthesis, purification and opening of short cup-stacked carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4554-60	1.3	14
121	High-performance in n-type PbTe-based thermoelectric materials achieved by synergistically dynamic doping and energy filtering. <i>Nano Energy</i> , <b>2022</b> , 91, 106706	17.1	14

120	Mechanical alloying boosted SnTe thermoelectrics. <i>Materials Today Physics</i> , <b>2021</b> , 17, 100340	8	14
119	Separable and recyclable meso-carbon@TiO <sub>2</sub> /carbon fiber composites for visible-light photocatalysis and photoelectrocatalysis. <i>Sustainable Materials and Technologies</i> , <b>2019</b> , 21, e00105	5.3	13
118	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> , <b>2020</b> , 13, 100198	8	13
117	Designing Visible-Light-Driven Z-scheme Catalyst 2D g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> MoO <sub>6</sub> : Enhanced Photodegradation Activity of Organic Pollutants. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800520	1.6	13
116	Hierarchical SnS <sub>2</sub> /carbon nanotube@reduced graphene oxide composite as an anode for ultra-stable sodium-ion batteries. <i>Chemical Engineering Journal Advances</i> , <b>2020</b> , 4, 100053	3.6	13
115	Oxygen Vacancy Dependence of Magnetic Behavior in the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600547	4.6	13
114	Superconductivity and magnetotransport of single-crystalline NbSe nanoplates grown by chemical vapour deposition. <i>Nanoscale</i> , <b>2017</b> , 9, 16591-16595	7.7	12
113	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> , <b>2020</b> , 579, 463-469	9.3	12
112	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2192-2199	6.1	12
111	Ce/Mn dual-doped LaAlO <sub>3</sub> ceramics with enhanced far-infrared emission capability synthesized via a facile microwave sintering method. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 774, 434-442	5.7	12
110	Synergistic band convergence and defect engineering boost thermoelectric performance of SnTe. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 86, 204-209	9.1	12
109	In <sub>3</sub> Se <sub>4</sub> and S-doped In <sub>3</sub> Se <sub>4</sub> nano/micro-structures as new anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 7560-7567	13	11
108	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> , <b>2019</b> , 50, 4987-4999	2.3	11
107	Fabrication and visible emission of single-crystal diameter-modulated gallium phosphide nanochains. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 124321	2.5	11
106	Growth and optical properties of stacked-pyramid zinc sulfide architectures. <i>CrystEngComm</i> , <b>2011</b> , 13, 5885	3.3	11
105	Thermoelectric Coolers: Progress, Challenges, and Opportunities.. <i>Small Methods</i> , <b>2022</b> , e2101235	12.8	11
104	Structural Evolution of High-Performance Mn-Alloyed Thermoelectric Materials: A Case Study of SnTe. <i>Small</i> , <b>2021</b> , 17, e2100525	11	11
103	Attaining reduced lattice thermal conductivity and enhanced electrical conductivity in as-sintered pure n-type Bi <sub>2</sub> Te <sub>3</sub> alloy. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 4788-4797	4.3	11



102	Recovery TiO <sub>2</sub> and sodium titanate nanowires as Cd(II) adsorbent from waste V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> selective catalytic reduction catalysts by Na <sub>2</sub> CO <sub>3</sub> -NaCl-KCl molten salt roasting method. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 88, 226-233	5.3	10
101	Co-doped Sb <sub>2</sub> Te <sub>3</sub> paramagnetic nanoplates. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 521-525	7.1	10
100	Amorphous SiO <sub>x</sub> nanowires catalyzed by metallic Ge for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 3978-3984	5.7	10
99	Thermally oxidized formation of new Ge dots over as-grown Ge dots in the Si capping layer. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 114304	2.5	10
98	Molybdenum-Promoted Surface Reconstruction in Polymorphic Cobalt for Initiating Rapid Oxygen Evolution. <i>Advanced Energy Materials</i> , 2103247	21.8	10
97	In situ crystal-amorphous compositing inducing ultrahigh thermoelectric performance of p-type Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> hybrid thin films. <i>Nano Energy</i> , <b>2020</b> , 78, 105379	17.1	10
96	Hierarchical meso/macro-porous TiO <sub>2</sub> /graphitic carbon nitride nanofibers with enhanced hydrogen evolution. <i>Materials and Design</i> , <b>2021</b> , 202, 109542	8.1	10
95	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> , <b>2020</b> , 39, 22-27	9.1	10
94	BiO/BiVO <sub>4</sub> @graphene oxide van der Waals heterostructures with enhanced photocatalytic activity toward oxygen generation. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 593, 196-203	9.3	10
93	Synergistic Texturing and Bi/Sb-Te Antisite Doping Secure High Thermoelectric Performance in Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> -Based Thin Films. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102578	21.8	10
92	Surface-energy engineered Bi-doped SnTe nanoribbons with weak antilocalization effect and linear magnetoresistance. <i>Nanoscale</i> , <b>2016</b> , 8, 19383-19389	7.7	9
91	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041404	17.3	9
90	Subtle Interplay between Localized Magnetic Moments and Itinerant Electrons in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13630-6	9.5	9
89	Comparison of the abundance and community structure of ammonia oxidizing prokaryotes in rice rhizosphere under three different irrigation cultivation modes. <i>World Journal of Microbiology and Biotechnology</i> , <b>2016</b> , 32, 85	4.4	9
88	Double perovskite Pr <sub>2</sub> CoFeO <sub>6</sub> thermoelectric oxide: Roles of Sr-doping and Micro/nanostructuring. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 130668	14.7	9
87	Flexible hollow TiO <sub>2</sub> @CMS/carbon-fiber van der Waals heterostructures for simulated-solar light photocatalysis and photoelectrocatalysis. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 98, 143-150 <sup>9.1</sup>		9
86	Biomass-Derived Carbon for High-Performance Batteries: From Structure to Properties. <i>Advanced Functional Materials</i> , 2201584	15.6	9
85	Simultaneously achieving high ZT and mechanical hardness in highly alloyed GeTe with symmetric nanodomains. <i>Chemical Engineering Journal</i> , <b>2022</b> , 441, 136131	14.7	9

84	Atomic Insights into Phase Evolution in Ternary Transition-Metal Dichalcogenides Nanostructures. <i>Small</i> , <b>2018</b> , 14, e1800780	11	8
83	Atomic disorders in layer structured topological insulator SnBi <sub>2</sub> Te <sub>4</sub> nanoplates. <i>Nano Research</i> , <b>2018</b> , 11, 696-706	10	8
82	Insight into the liquid state of organo-lead halide perovskites and their new roles in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10355	13	8
81	Long wavelength emissions of Se <sup>4+</sup> -doped In <sub>2</sub> O <sub>3</sub> hierarchical nanostructures. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 6529	7.1	8
80	Sulfur-doped gallium phosphide nanowires and their optoelectronic properties. <i>Nanotechnology</i> , <b>2010</b> , 21, 375701	3.4	8
79	High-tensile-strength and ductile novel Ti-Fe-N-B alloys reinforced with TiB nanowires. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 708, 285-290	5.3	8
78	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 36370-36379	9.5	8
77	Real-time observation of the thermally-induced phase transformation in GeTe and its thermal expansion properties. <i>Acta Materialia</i> , <b>2019</b> , 165, 327-335	8.4	8
76	Thermoelectric Coolers as Thermal Management Systems for Medical Applications: Design, Optimization, and Advancement. <i>Nano Energy</i> , <b>2021</b> , 106572	17.1	8
75	Achieving high-performance n-type PbTe via synergistically optimizing effective mass and carrier concentration and suppressing lattice thermal conductivity. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 132601	14.7	8
74	Thermoelectrics for medical applications: Progress, challenges, and perspectives. <i>Chemical Engineering Journal</i> , <b>2022</b> , 437, 135268	14.7	8
73	CO <sub>2</sub> derived nanoporous carbons for carbon capture. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 305, 110356	5.3	7
72	Graphene quantum dots modified Ag <sub>3</sub> PO <sub>4</sub> for facile synthesis and the enhanced photocatalytic performance. <i>Journal of the Chinese Advanced Materials Society</i> , <b>2018</b> , 6, 255-269		7
71	Light irradiation induced aerobic oxidative deep-desulfurization of fuel in ionic liquid. <i>RSC Advances</i> , <b>2015</b> , 5, 99927-99934	3.7	7
70	Se-alloying reducing lattice thermal conductivity of Ge <sub>0.95</sub> Bi <sub>0.05</sub> Te. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 106, 249-256	9.1	7
69	Vapour-solid growth of Mo <sub>x</sub> W <sub>1-x</sub> Te <sub>2</sub> nanobelts by a facile chemical vapour deposition method. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 926-930	5.7	7
68	Boosting the thermoelectric performance of n-type Bi <sub>2</sub> S <sub>3</sub> by hierarchical structure manipulation and carrier density optimization. <i>Nano Energy</i> , <b>2021</b> , 87, 106171	17.1	7
67	Thermoelectric coolers: Infinite potentials for finite localized microchip cooling. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 121, 256-262	9.1	7

66	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7212-7218	7.1	6
65	Vibrant Color Palettes of Electrochromic Manganese Oxide Electrodes for Colorful Zn-Ion Battery. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100637	8.1	6
64	Improved catalytic combustion of methane using CuO nanobelts with predominantly (001) surfaces. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 2526-2532	3	6
63	Hot-Filament-Assisted Growth of Straight SiO <sub>x</sub> Nanowires for Optoelectronic Application. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 14354-14361	3.8	5
62	Ti-Zr-O nanotube arrays with controlled morphology, crystal structure and optical properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6501-10	1.3	5
61	Microworms self-assembled by boron nitride horns for optoelectronic applications. <i>Chemical Engineering Journal</i> , <b>2010</b> , 165, 714-719	14.7	5
60	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> , <b>2022</b> , 114, 55-61	9.1	5
59	Exploring thermoelectric performance of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> + $\Gamma$ ceramics via chemical electroless plating with Cu. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 821, 153522	5.7	5
58	Achieving enhanced thermoelectric performance of Ca <sub>1-x</sub> LaxSryMnO <sub>3</sub> via synergistic carrier concentration optimization and chemical bond engineering. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127364	14.7	5
57	Simultaneously enhanced strength and plasticity of Ag <sub>2</sub> Se-based thermoelectric materials endowed by nano-twinned CuAgSe secondary phase. <i>Acta Materialia</i> , <b>2021</b> , 117335	8.4	5
56	Thermoelectric performance of p-type (Bi,Sb) <sub>2</sub> Te <sub>3</sub> incorporating amorphous Sb <sub>2</sub> S <sub>3</sub> nanospheres. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132738	14.7	5
55	One-step Mechanical Synthesis of Oxygen-defect Modified Ultrathin Bi <sub>12</sub> O <sub>17</sub> Br <sub>2</sub> Nanosheets for Boosting Photocatalytic Activity. <i>ChemistrySelect</i> , <b>2020</b> , 5, 11177-11184	1.8	5
54	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> , <b>2020</b> , 28, 102219	6	4
53	Intercalation-Induced Disintegrated Layer-By-Layer Growth of Ultrathin Ternary Mo(TeS) Plates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 30980-30989	9.5	4
52	Correlation between the photocatalysis and growth mechanism of SnO <sub>2</sub> nanocrystals. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 154005	3	4
51	Enhancing thermoelectric performance of Cu-modified Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> by electroless plating and annealing. <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 218-224	3.6	4
50	Thickness Dependence of Magnetic Behavior of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800352	4.6	4
49	High near-room temperature figure of merit of n-type Bi <sub>2</sub> GeTe <sub>4</sub> -based thermoelectric materials via a stepwise optimization of carrier concentration. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133775	14.7	4

48	Enhanced Thermoelectric Performance of SnTe-Based Materials Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50057-50064	9.5	4
47	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe) <sub>85</sub> (AgSbTe <sub>2</sub> ) <sub>15</sub> . <i>Energy Material Advances</i> , <b>2021</b> , 2021, 1-8	1	4
46	Simultaneously optimized thermoelectric performance of n-type Cu <sub>2</sub> Se alloyed Bi <sub>2</sub> Te <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 296, 121987	3.3	4
45	A new indium selenide phase: controllable synthesis, phase transformation and photoluminescence properties. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13573-13584	7.1	4
44	Exploring the underlying mechanisms behind the increased far infrared radiation properties of perovskite-type Ce/Mn co-doped ceramics. <i>Materials Research Bulletin</i> , <b>2019</b> , 109, 233-239	5.1	4
43	Ternary AgSeTe: A Near-Room-Temperature Thermoelectric Material with a Potentially High Figure of Merit. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 14165-14173	5.1	4
42	End-to-end relation extraction based on bootstrapped multi-level distant supervision. <i>World Wide Web</i> , <b>2020</b> , 23, 2933-2956	2.9	3
41	Effect of titanium based complex catalyst and carbon nanotubes on hydrogen storage performance of magnesium. <i>Science China Chemistry</i> , <b>2013</b> , 56, 451-458	7.9	3
40	<b>2014</b> ,		3
39	Fabrication of crystal Bi <sub>2</sub> N <sub>2</sub> Si-SiO <sub>x</sub> core-shell/Au-SiO <sub>x</sub> peapod-like axial double heterostructures for optoelectronic applications. <i>Nanotechnology</i> , <b>2012</b> , 23, 305603	3.4	3
38	Investigation of Amine-Based Ternary Deep Eutectic Solvents for Efficient, Rapid, and Reversible SO <sub>2</sub> Absorption. <i>Energy &amp; Fuels</i> ,	4.1	3
37	Advances in conducting polymer-based thermoelectric materials and devices <b>2021</b> ,		3
36	Formation mechanism of titania based opacified glaze with novel core-shell nanostructure. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 1668-1674	6	3
35	Cracking Behavior and Mechanism of Gibbsite Crystallites during Calcination. <i>Crystal Research and Technology</i> , <b>2019</b> , 54, 1800201	1.3	3
34	Microstructural characterization of cobalt treated by laser surface melting under different powers. <i>Progress in Natural Science: Materials International</i> , <b>2019</b> , 29, 57-64	3.6	3
33	Self-standing and high-performance B <sub>4</sub> C/Sn/acetylene black@reduced graphene oxide films as sodium-ion half/full battery anodes. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101137	6.6	3
32	In-situ growth of high-performance (Ag, Sn) co-doped CoSb <sub>3</sub> thermoelectric thin films. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 92, 178-185	9.1	3
31	Enhanced thermoelectric performance of n-type Nb-doped PbTe by compensating resonant level and inducing atomic disorder. <i>Materials Today Physics</i> , <b>2022</b> , 24, 100677	8	3

30	Nanostructured Cost-Effective and Energy-Efficient Thermoelectric Materials <b>2017</b> , 547-568		2
29	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. <i>Sustainable Materials and Technologies</i> , <b>2020</b> , 25, e00183	5.3	2
28	Construction of a 2D Graphene-Like MoS <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> Heterojunction with Enhanced Visible-Light Photocatalytic Activity and Photoelectrochemical Activity. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 4644-4645 <sup>2</sup>	4.8	2
27	N-doped silk wadding-derived carbon/SnO <sub>2</sub> @reduced graphene oxide film as an ultra-stable anode for sodium-ion half/full battery. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133675	14.7	2
26	Achieving High-Performance Ge Bi Te Thermoelectrics via LaB <sub>3</sub> -Alloying-Induced Band Engineering and Multi-Scale Structure Manipulation. <i>Small</i> , <b>2021</b> , e2105923	11	2
25	In-Situ Synthesis of MoS <sub>2</sub> /BiOBr Material via Mechanical Ball Milling for Boosted Photocatalytic Degradation Pollutants Performance. <i>ChemistrySelect</i> , <b>2021</b> , 6, 928-936	1.8	2
24	High-Performance Thermoelectric Materials for Solar Energy Application <b>2018</b> , 3-38		2
23	Enhanced thermoelectric performance in MXene/SnTe nanocomposites synthesized via a facile one-step solvothermal method. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 304, 122605	3.3	2
22	A Solvothermal Synthetic Environmental Design for High-Performance SnSe-Based Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2200670	21.8	2
21	Synergistic Effect of Band and Nanostructure Engineering on the Boosted Thermoelectric Performance of n-Type Mg <sub>3</sub> + [(Sb, Bi) <sub>2</sub> Zintl]. <i>Advanced Energy Materials</i> , 2201086	21.8	2
20	Cracking behaviour and mechanism at grain boundary of gibbsite during calcination. <i>Ceramics International</i> , <b>2020</b> , 46, 12067-12072	5.1	1
19	Photocatalysis: ZnO@CdS@Cd Heterostructure for Effective Photocatalytic Hydrogen Generation (Adv. Energy Mater. 1/2012). <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 2-2	21.8	1
18	Synthesis of GaPO <sub>4</sub> -GaN Coaxial Nanowires. <i>Journal of Materials Science and Technology</i> , <b>2010</b> , 26, 15-19, 1	9.1	1
17	Achieving ultrahigh power factor in n-type Ag <sub>2</sub> Se thin films by carrier engineering. <i>Materials Today Energy</i> , <b>2022</b> , 24, 100933	7	1
16	Cheap, Large-Scale, and High-Performance Graphite-Based Flexible Thermoelectric Materials and Devices with Supernormal Industry Feasibility.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	1
15	Synthesis of thermoelectric materials <b>2021</b> , 73-103		1
14	Low lattice thermal conductivity and enhanced thermoelectric performance of SnTe via chemical electroless plating of Ag. <i>Rare Metals</i> , 1	5.5	1
13	Optimal array alignment to deliver high performance in flexible conducting polymer-based thermoelectric devices. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 124, 252-259	9.1	1

12	Achieving high thermoelectric properties in PEDOT:PSS/SWCNTs composite films by a combination of dimethyl sulfoxide doping and NaBH <sub>4</sub> dedoping. <i>Carbon</i> , <b>2022</b> , 196, 718-726	10.4	1
11	The effect of rare earth element doping on thermoelectric properties of GeTe. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137278	14.7	1
10	Solar driven high efficiency hydrogen evolution catalyzed by surface engineered ultrathin carbon nitride. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 19314-19322	3.6	0
9	Atomic Investigation on the Facet-Dependent Melting of Ceramic Nanostructures via In Situ Electron Irradiation. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000288	4.6	0
8	Impurity Removal Leading to High-Performance CoSb-Based Skutterudites with Synergistic Carrier Concentration Optimization and Thermal Conductivity Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54185-54193	9.5	0
7	Effects of Ausforming Procedure and Following Annealing Treatment on Microstructural Characteristics in Cobalt. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2018</b> , 31, 415-422	2.5	
6	Nitrogen Dynamics Variation in Overlying Water of Jinshan Lake, China. <i>Journal of Chemistry</i> , <b>2015</b> , 2015, 1-6	2.3	
5	Molybdenum-Promoted Surface Reconstruction in Polymorphic Cobalt for Initiating Rapid Oxygen Evolution (Adv. Energy Mater. 5/2022). <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2270016	21.8	
4	Thermo-Responsive Nanomaterials for Thermoelectric Generation. <i>Springer Series in Materials Science</i> , <b>2020</b> , 269-293	0.9	
3	The Study of Atmospheric Pressure CVD Growth Process of MoxW <sub>1-x</sub> Te <sub>2</sub> Nanobelts for Tuneable Chemical Composition. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 678, 012149	0.4	
2	Revealing cracking and breakage behaviours of gibbsite particles. <i>Ceramics International</i> , <b>2021</b> , 47, 4625-4632	4.6	
1	Constructing Ni <sub>3</sub> C/2D g-C <sub>3</sub> N <sub>4</sub> Photocatalyst and the Internal Catalytic Mechanism Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2100171	1.6	