Jin Zou

List of Publications by Year in Descending Order

687 papers	31,534 citations	86 h-index	151 g-index
735 ext. papers	35,759 ext. citations	7.4 avg, IF	7.48 L-index

#	Paper	IF	Citations
687	Thermoelectric Coolers: Progress, Challenges, and Opportunities.. *Small Methods*, **2022**, e2101235	12.8	11
686	Thermoelectrics for medical applications: Progress, challenges, and perspectives. *Chemical Engineering Journal*, **2022**, 437, 135268	14.7	8
685	High strength and ductility of titanium matrix composites by nanoscale design in selective laser melting. *Journal of Materials Science and Technology*, **2022**, 118, 114-127	9.1	2
684	Optimal array alignment to deliver high performance in flexible conducting polymer-based thermoelectric devices. *Journal of Materials Science and Technology*, **2022**, 124, 252-259	9.1	1
683	TiB reinforced lattice structures produced by laser powder bed fusion with high elastic admissible strain. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 845, 143249	5.3	1
682	The effect of rare earth element doping on thermoelectric properties of GeTe. *Chemical Engineering Journal*, **2022**, 446, 137278	14.7	1
681	Achieving High-Performance Ge Bi Te Thermoelectrics via LaB -Alloying-Induced Band Engineering and Multi-Scale Structure Manipulation. *Small*, **2021**, e2105923	11	2
680	Advances in conducting polymer-based thermoelectric materials and devices **2021**,		3
679	Two-dimensional flexible thermoelectric devices: Using modeling to deliver optimal capability. *Applied Physics Reviews*, **2021**, 8, 041404	17.3	9
678	Rare-Earth Nd Inducing Record-High Thermoelectric Performance of (GeTe)85(AgSbTe2)15. *Energy Material Advances*, **2021**, 2021, 1-8	1	4
677	Versatile Vanadium Doping Induces High Thermoelectric Performance in GeTe via Band Alignment and Structural Modulation. *Advanced Energy Materials*, **2021**, 11, 2100544	21.8	18
676	Structural Evolution of High-Performance Mn-Alloyed Thermoelectric Materials: A Case Study of SnTe. *Small*, **2021**, 17, e2100525	11	11
675	A game-changing design of low-cost, large-size porous cocatalysts decorated by ultra-small photocatalysts for highly efficient hydrogen evolution. *Applied Catalysis B: Environmental*, **2021**, 286, 119923	21.8	17
674	Thickness-Controlled Three-Dimensional Dirac Semimetal for Scalable High-Performance Terahertz Optoelectronics. *ACS Photonics*, **2021**, 8, 1689-1697	6.3	4
673	Superstructured Macroporous Carbon Rods Composed of Defective Graphitic Nanosheets for Efficient Oxygen Reduction Reaction. *Advanced Science*, **2021**, 8, e2100120	13.6	7
672	Achieving enhanced thermoelectric performance of Ca1□LaxSryMnO3 via synergistic carrier concentration optimization and chemical bond engineering. *Chemical Engineering Journal*, **2021**, 408, 127364	14.7	5
671	High-efficiency thermocells driven by thermo-electrochemical processes. *Trends in Chemistry*, **2021**, 3, 561-574	14.8	19

670	Wearable fiber-based thermoelectrics from materials to applications. *Nano Energy*, **2021**, 81, 105684	17.1	28
669	Synthesis of thermoelectric materials **2021**, 73-103		1
668	In situ liquid cell transmission electron microscopy guiding the design of large-sized cocatalysts coupled with ultra-small photocatalysts for highly efficient energy harvesting. *Journal of Materials Chemistry A*, **2021**, 9, 13056-13064	13	6
667	Photoelectronic Properties of End-bonded InAsSb Nanowire Array Detector under Weak Light. *Nanoscale Research Letters*, **2021**, 16, 13	5	1
666	Thermal Reductive Perforation of Graphene Cathode for High-Performance Aluminum-Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2010569	15.6	15
665	Axiotaxy driven growth of belt-shaped InAs nanowires in molecular beam epitaxy. *Nano Research*, **2021**, 14, 2330	10	
664	Optimizing Electronic Quality Factor toward High-Performance Ge Ta Sb Te Thermoelectrics: The Role of Transition Metal Doping. *Advanced Materials*, **2021**, 33, e2102575	24	24
663	Conducting polymer-based flexible thermoelectric materials and devices: From mechanisms to applications. *Progress in Materials Science*, **2021**, 121, 100840	42.2	47
662	Anomalous Photoelectrical Properties through Strain Engineering Based on a Single Bent InAsSb Nanowire. *ACS Applied Materials & Interfaces*, **2021**, 13, 5691-5698	9.5	2
661	Fiber-based thermoelectrics for solid, portable, and wearable electronics. *Energy and Environmental Science*, **2021**, 14, 729-764	35.4	65
660	TiB Nanowhisker Reinforced Titanium Matrix Composite with Improved Hardness for Biomedical Applications. *Nanomaterials*, **2020**, 10,	5.4	3
659	Computer-aided design of high-efficiency GeTe-based thermoelectric devices. *Energy and Environmental Science*, **2020**, 13, 1856-1864	35.4	73
658	In situ TEM observation of the vapor-solid-solid growth of InAs nanowires. *Nanoscale*, **2020**, 12, 11711-11717	7.7	6
657	Improved mechanical property of nanolaminated graphene (reduced graphene oxide)/Al–Mg–Si composite rendered by facilitated ageing process. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 787, 139541	5.3	12
656	Bi0.5Sb1.5Te3/PEDOT:PSS-based flexible thermoelectric film and device. *Chemical Engineering Journal*, **2020**, 397, 125360	14.7	66
655	Crowding-out effect strategy using AgCl for realizing a super low lattice thermal conductivity of SnTe. *Sustainable Materials and Technologies*, **2020**, 25, e00183	5.3	2
654	Intercalation-Induced Disintegrated Layer-By-Layer Growth of Ultrathin Ternary Mo(TeS) Plates. *ACS Applied Materials & Interfaces*, **2020**, 12, 30980-30989	9.5	4
653	Interfacial properties and their impact on the tensile behavior of nanolaminated single-walled carbon nanotube-aluminum composite. *Materialia*, **2020**, 12, 100797	3.2	3

652	Site-specific growth of MOF-on-MOF heterostructures with controllable nano-architectures: beyond the combination of MOF analogues. *Chemical Science*, **2020**, 11, 3680-3686	9.4	33
651	MBE Growth and Characterization of Strained HgTe (111) Films on CdTe/GaAs. *Chinese Physics Letters*, **2020**, 37, 038101	1.8	1
650	Advanced Thermoelectric Design: From Materials and Structures to Devices. *Chemical Reviews*, **2020**, 120, 7399-7515	68.1	482
649	In-situ observation of cooperative grain boundary sliding and migration in the nano-twinned nanocrystalline-Au thin-films. *Scripta Materialia*, **2020**, 180, 97-102	5.6	8
648	Morphology and Texture Engineering Enhancing Thermoelectric Performance of Solvothermal Synthesized Ultralarge SnS Microcrystal. *ACS Applied Energy Materials*, **2020**, 3, 2192-2199	6.1	12
647	High-Performance Thermoelectric SnSe: Aqueous Synthesis, Innovations, and Challenges. *Advanced Science*, **2020**, 7, 1902923	13.6	85
646	Promising and Eco-Friendly Cu X-Based Thermoelectric Materials: Progress and Applications. *Advanced Materials*, **2020**, 32, e1905703	24	92
645	Establishing the Golden Range of Seebeck Coefficient for Maximizing Thermoelectric Performance. *Journal of the American Chemical Society*, **2020**, 142, 2672-2681	16.4	82
644	GeSi virtual-layer enhanced ferromagnetism in self-assembled MnGe quantum dots grown on Si wafers by molecular beam epitaxy. *Nanoscale*, **2020**, 12, 3997-4004	7.7	2
643	Enhanced Damping Capacity in Graphene-Al Nanolaminated Composite Pillars Under Compression Cyclic Loading. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 1463-1468	2.3	3
642	Thermo-Responsive Nanomaterials for Thermoelectric Generation. *Springer Series in Materials Science*, **2020**, 269-293	0.9	
641	Computation-guided design of high-performance flexible thermoelectric modules for sunlight-to-electricity conversion. *Energy and Environmental Science*, **2020**, 13, 3480-3488	35.4	27
640	Enhanced thermoelectric properties of nanostructured n-type Bi2Te3 by suppressing Te vacancy through non-equilibrium fast reaction. *Chemical Engineering Journal*, **2020**, 391, 123513	14.7	58
639	Outstanding thermoelectric properties of solvothermal-synthesized Sn1□xInxAg2xTe micro-crystals through defect engineering and band tuning. *Journal of Materials Chemistry A*, **2020**, 8, 3978-3987	13	19
638	High-quality epitaxial wurtzite structured InAs nanosheets grown in MBE. *Nanoscale*, **2020**, 12, 271-276	7.7	8
637	Optimization of sodium hydroxide for securing high thermoelectric performance in polycrystalline Sn1 □kSe via anisotropy and vacancy synergy. *Informa□□Materi□*, **2020**, 2, 1201-1215	23.1	31
636	Correlation Between Microstructural Architecture and Mechanical Behavior of Single-Walled Carbon Nanotube-Aluminum Composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 545-551	2.3	5
635	Two-dimensional ferromagnetic superlattices. *National Science Review*, **2020**, 7, 745-754	10.8	17

634	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. *Joule*, **2020**, 4, 2030-2043	27.8	90
633	Ternary MOF-on-MOF heterostructures with controllable architectural and compositional complexity via multiple selective assembly. *Nature Communications*, **2020**, 11, 4971	17.4	50
632	Surface-States-Modulated High-Performance InAs Nanowire Phototransistor. *Journal of Physical Chemistry Letters*, **2020**, 11, 6413-6419	6.4	10
631	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. *ACS Applied Materials & Interfaces*, **2020**, 12, 36370-36379	9.5	8
630	Understanding the structural evolution of Au/WO2.7 compounds in hydrogen atmosphere by atomic scale in situ environmental TEM. *Nano Research*, **2020**, 13, 3019-3024	10	5
629	Rational structural design and manipulation advance SnSe thermoelectrics. *Materials Horizons*, **2020**, 7, 3065-3096	14.4	37
628	Ultrahigh Aspect Ratio TiB Nanowhisker-Reinforced Titanium Matrix Composites as Lightweight and Low-Cost Replacements for Superalloys. *ACS Applied Nano Materials*, **2020**, 3, 8208-8215	5.6	5
627	Microstructure and Strengthening Model of Cu-Fe In-Situ Composites. *Materials*, **2020**, 13,	3.5	7
626	Crystal symmetry induced structure and bonding manipulation boosting thermoelectric performance of GeTe. *Nano Energy*, **2020**, 73, 104740	17.1	42
625	Hollow Nanostructures: Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures (Adv. Mater. 38/2019). *Advanced Materials*, **2019**, 31, 1970272	24	1
624	Effects of C Addition on the Microstructures of As-Cast Cu-Fe-P Alloys. *Materials*, **2019**, 12,	3.5	2
623	Au-catalysed free-standing wurtzite structured InAs nanosheets grown by molecular beam epitaxy. *Nano Research*, **2019**, 12, 2718-2722	10	6
622	Realizing high thermoelectric properties of SnTe via synergistic band engineering and structure engineering. *Nano Energy*, **2019**, 65, 104056	17.1	70
621	Super Large SnSe Single Crystals with Excellent Thermoelectric Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 8051-8059	9.5	27
620	Vortex fluidic mediated transformation of graphite into highly conducting graphene scrolls. *Nanoscale Advances*, **2019**, 1, 2495-2501	5.1	10
619	Solvothermal synthesis of high-purity porous Cu1.7Se approaching low lattice thermal conductivity. *Chemical Engineering Journal*, **2019**, 375, 121996	14.7	21
618	Effectively restricting MnSi precipitates for simultaneously enhancing the Seebeck coefficient and electrical conductivity in higher manganese silicide. *Journal of Materials Chemistry C*, **2019**, 7, 7212-7218	7.1	6
617	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. *Advanced Materials*, **2019**, 31, e1807916	24	255

616	Understanding the Formation and Evolution of Oxide Inclusions in Si-Deoxidized Spring Steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 1862-1877	2.5	3
615	Microstructure and properties of Cu□e deformation processed in-situ composite. *Vacuum*, **2019**, 167, 54-58	3.7	20
614	Compositional Varied Core-Shell InGaP Nanowires Grown by Metal-Organic Chemical Vapor Deposition. *Nano Letters*, **2019**, 19, 3782-3788	11.5	13
613	Proximity-induced surface superconductivity in Dirac semimetal CdAs. *Nature Communications*, **2019**, 10, 2217	17.4	23
612	Highly Thiolated Dendritic Mesoporous Silica Nanoparticles with High-Content Gold as Nanozymes: The Nano-Gold Size Matters. *ACS Applied Materials & Interfaces*, **2019**, 11, 13264-13272	9.5	22
611	Ultrahigh conductivity in Weyl semimetal NbAs nanobelts. *Nature Materials*, **2019**, 18, 482-488	27	40
610	Enhancing Thermoelectric Properties of InTe Nanoprecipitate-Embedded Sn1□InxTe Microcrystals through Anharmonicity and Strain Engineering. *ACS Applied Energy Materials*, **2019**, 2, 2965-2971	6.1	31
609	Nanoscale pores plus precipitates rendering high-performance thermoelectric SnTe1-xSex with refined band structures. *Nano Energy*, **2019**, 60, 1-7	17.1	66
608	Epitaxial GaAs/AlGaAs core-multishell nanowires with enhanced photoluminescence lifetime. *Nanoscale*, **2019**, 11, 6859-6865	7.7	7
607	Kinetic condition driven phase and vacancy enhancing thermoelectric performance of low-cost and eco-friendly Cu2□S. *Journal of Materials Chemistry C*, **2019**, 7, 5366-5373	7.1	20
606	High Thermoelectric Performance in p-type Polycrystalline Cd-doped SnSe Achieved by a Combination of Cation Vacancies and Localized Lattice Engineering. *Advanced Energy Materials*, **2019**, 9, 1803242	21.8	99
605	Thermoelectric GeTe with Diverse Degrees of Freedom Having Secured Superhigh Performance. *Advanced Materials*, **2019**, 31, e1807071	24	134
604	Formation Mechanism of Al2O3-Containing Inclusions in Al-Deoxidized Spring Steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 2205-2220	2.5	4
603	High Porosity in Nanostructured -Type BiTe Obtaining Ultralow Lattice Thermal Conductivity. *ACS Applied Materials & Interfaces*, **2019**, 11, 31237-31244	9.5	50
602	Light-Induced Positive and Negative Photoconductances of InAs Nanowires toward Rewritable Nonvolatile Memory. *ACS Applied Electronic Materials*, **2019**, 1, 1825-1831	4	9
601	Effect of Sn Addition on Epitaxial GaAs Nanowire Grown at Different Temperatures in Metal□Organic Chemical Vapor Deposition. *Crystal Growth and Design*, **2019**, 19, 5314-5319	3.5	3
600	Inverted vortex fluidic exfoliation and scrolling of hexagonal-boron nitride.. *RSC Advances*, **2019**, 9, 22074-22079	3.7	9
599	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. *Chemistry of Materials*, **2019**, 31, 5238-5244	9.6	102

598	In Situ Observation of Dynamic Galvanic Replacement Reactions in Twinned Metallic Nanowires by Liquid Cell Transmission Electron Microscopy. *Angewandte Chemie - International Edition*, **2019**, 58, 18627-18633	16.4	21
597	Understanding the Effect of Catalyst Size on the Epitaxial Growth of Hierarchical Structured InGaP Nanowires. *Nano Letters*, **2019**, 19, 8262-8269	11.5	3
596	Free-Standing InAs Nanobelts Driven by Polarity in MBE. *ACS Applied Materials & Interfaces*, **2019**, 11, 44609-44616	9.5	5
595	In Situ Observation of Dynamic Galvanic Replacement Reactions in Twinned Metallic Nanowires by Liquid Cell Transmission Electron Microscopy. *Angewandte Chemie*, **2019**, 131, 18800-18806	3.6	3
594	Ultrasensitive Mid-wavelength Infrared Photodetection Based on a Single InAs Nanowire. *ACS Nano* , **2019**, 13, 3492-3499	16.7	28
593	The Study of Atmospheric Pressure CVD Growth Process of MoxW1-xTe2 Nanobelts for Tuneable Chemical Composition. *IOP Conference Series: Materials Science and Engineering*, **2019**, 678, 012149	0.4	
592	A new indium selenide phase: controllable synthesis, phase transformation and photoluminescence properties. *Journal of Materials Chemistry C*, **2019**, 7, 13573-13584	7.1	4
591	Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures. *Advanced Materials*, **2019**, 31, e1801564	24	33
590	Chemoselective and Continuous Flow Hydrogenations in Thin Films Using a Palladium Nanoparticle Catalyst Embedded in Cellulose Paper.. *ACS Applied Bio Materials*, **2019**, 2, 488-494	4.1	13
589	Strong Phonon-Phonon Interactions Securing Extraordinary Thermoelectric GeSb Te with Zn-Alloying-Induced Band Alignment. *Journal of the American Chemical Society*, **2019**, 141, 1742-1748	16.4	145
588	Vapour-solid growth of MoxW1-xTe2 nanobelts by a facile chemical vapour deposition method. *Journal of Alloys and Compounds*, **2019**, 777, 926-930	5.7	7
587	Compositional design of strong and ductile (tensile) Ti-Zr-Nb-Ta medium entropy alloys (MEAs) using the atomic mismatch approach. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 742, 762-772	5.3	30
586	Inclusion Characterization and Formation Mechanisms in Spring Steel Deoxidized by Silicon. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019** , 50, 732-747	2.5	11
585	Real-time observation of the thermally-induced phase transformation in GeTe and its thermal expansion properties. *Acta Materialia*, **2019**, 165, 327-335	8.4	8
584	2D Porous TiO Single-Crystalline Nanostructure Demonstrating High Photo-Electrochemical Water Splitting Performance. *Advanced Materials*, **2018**, 30, e1705666	24	137
583	Eco-Friendly Higher Manganese Silicide Thermoelectric Materials: Progress and Future Challenges. *Advanced Energy Materials*, **2018**, 8, 1800056	21.8	90
582	In situ atomistic deformation mechanisms of twin-structured nanocrystal Pt. *Scripta Materialia*, **2018**, 147, 103-107	5.6	19
581	Realizing zT of 2.3 in Ge Sb In Te via Reducing the Phase-Transition Temperature and Introducing Resonant Energy Doping. *Advanced Materials*, **2018**, 30, 1705942	24	228

580	Laser irradiated vortex fluidic mediated synthesis of luminescent carbon nanodots under continuous flow. *Reaction Chemistry and Engineering*, **2018**, 3, 164-170	4.9	35
579	Achieving zT > 2 in p-Type AgSbTe2□Sex Alloys via Exploring the Extra Light Valence Band and Introducing Dense Stacking Faults. *Advanced Energy Materials*, **2018**, 8, 1702333	21.8	100
578	Atomic Insights into Phase Evolution in Ternary Transition-Metal Dichalcogenides Nanostructures. *Small*, **2018**, 14, e1800780	11	8
577	High-performance SnSe thermoelectric materials: Progress and future challenge. *Progress in Materials Science*, **2018**, 97, 283-346	42.2	273
576	Achieving high Figure of Merit in p-type polycrystalline Sn0.98Se via self-doping and anisotropy-strengthening. *Energy Storage Materials*, **2018**, 10, 130-138	19.4	79
575	Atomic disorders in layer structured topological insulator SnBi2Te4 nanoplates. *Nano Research*, **2018**, 11, 696-706	10	8
574	Boosting the thermoelectric performance of p-type heavily Cu-doped polycrystalline SnSe inducing intensive crystal imperfections and defect phonon scattering. *Chemical Science*, **2018**, 9, 7376-7389	9.4	91
573	Achieving high thermoelectric performance of Ni/Cu modified Bi0.5Sb1.5Te3 composites by a facile electroless plating. *Materials Today Energy*, **2018**, 9, 383-390	7	16
572	A novel quaternary equiatomic Ti-Zr-Nb-Ta medium entropy alloy (MEA). *Intermetallics*, **2018**, 101, 39-43	3.5	49
571	Influences on Distribution of Solute Atoms in Cu-8Fe Alloy Solidification Process Under Rotating Magnetic Field. *Metals and Materials International*, **2018**, 24, 1275-1284	2.4	4
570	Fundamental and progress of Bi 2 Te 3 -based thermoelectric materials. *Chinese Physics B*, **2018**, 27, 048403	1.2	68
569	Enhancing thermoelectric performance of (Cu1-xAgx)2Se via CuAgSe secondary phase and porous design. *Sustainable Materials and Technologies*, **2018**, 17, e00076	5.3	20
568	In situ atomic scale mechanisms of strain-induced twin boundary shear to high angle grain boundary in nanocrystalline Pt. *Ultramicroscopy*, **2018**, 195, 69-73	3.1	6
567	Realizing High Thermoelectric Performance in n-Type Highly Distorted Sb-Doped SnSe Microplates via Tuning High Electron Concentration and Inducing Intensive Crystal Defects. *Advanced Energy Materials*, **2018**, 8, 1800775	21.8	86
566	Nano-scale dislocations induced by self-vacancy engineering yielding extraordinary n-type thermoelectric Pb0.96-yInySe. *Nano Energy*, **2018**, 50, 785-793	17.1	39
565	In situ preparation of TiB nanowires for high-performance Ti metal matrix nanocomposites. *Journal of Alloys and Compounds*, **2018**, 735, 2640-2645	5.7	31
564	High Performance Thermoelectric Materials: Progress and Their Applications. *Advanced Energy Materials*, **2018**, 8, 1701797	21.8	371
563	Ag doping induced abnormal lattice thermal conductivity in Cu2Se. *Journal of Materials Chemistry C*, **2018**, 6, 13225-13231	7.1	40

562	Continuous flow synthesis of phosphate binding h-BN@magnetite hybrid material.. *RSC Advances*, **2018**, 8, 40829-40835	3.7	9
561	Signature of quantum Griffiths singularity state in a layered quasi-one-dimensional superconductor. *Nature Communications*, **2018**, 9, 4656	17.4	17
560	Effects of an Alternating Magnetic Field/Ag Multi-Alloying Combined Solidification Process on Cu?14Fe Alloy. *Materials*, **2018**, 11,	3.5	2
559	Laser-Ablated Vortex Fluidic-Mediated Synthesis of Superparamagnetic Magnetite Nanoparticles in Water Under Flow. *ACS Omega*, **2018**, 3, 11172-11178	3.9	18
558	In Situ TEM Observation of Crystal Structure Transformation in InAs Nanowires on Atomic Scale. *Nano Letters*, **2018**, 18, 6597-6603	11.5	18
557	High-Performance Thermoelectric Materials for Solar Energy Application **2018**, 3-38		2
556	High Thermoelectric Performance in Sintered Octahedron-Shaped Sn(CdIn) Te Microcrystals. *ACS Applied Materials & Interfaces*, **2018**, 10, 38944-38952	9.5	27
555	Polycrystalline SnSe with Extraordinary Thermoelectric Property via Nanoporous Design. *ACS Nano*, **2018**, 12, 11417-11425	16.7	98
554	Effect of Carbon on the Microstructure of a Cu-Fe Alloy. *Solid State Phenomena*, **2018**, 279, 49-54	0.4	3
553	Influences of Alternating Magnetic Fieldson the Growth Behavior and Distribution of the Primary Fe Phasein Cu-14Fe Alloys during the Solidification Process. *Metals*, **2018**, 8, 571	2.3	5
552	The effect of Sn addition on GaAs nanowire grown by vapor-liquid-solid growth mechanism. *Nanotechnology*, **2018**, 29, 465601	3.4	3
551	Arrays of Planar Vacancies in Superior Thermoelectric Ge1−xyCdxBiyTe with Band Convergence. *Advanced Energy Materials*, **2018**, 8, 1801837	21.8	116
550	Crystal-phase control of GaAs□GaAsSb core□shell/axial nanowire heterostructures by a two-step growth method. *Journal of Materials Chemistry C*, **2018**, 6, 6726-6732	7.1	19
549	Strain Gradient Modulated Exciton Evolution and Emission in ZnO Fibers. *Scientific Reports*, **2017**, 7, 40658	4.9	5
548	Room-temperature chiral charge pumping in Dirac semimetals. *Nature Communications*, **2017**, 8, 13741	17.4	82
547	Nanostructured Cost-Effective and Energy-Efficient Thermoelectric Materials **2017**, 547-568		2
546	Arrayed Van Der Waals Broadband Detectors for Dual-Band Detection. *Advanced Materials*, **2017**, 29, 1604439	24	161
545	Enhanced mechanical properties and oxidation resistance of tungsten carbide-cobalt cemented carbides with aluminum nitride additions. *Ceramics International*, **2017**, 43, 6603-6606	5.1	10

544	Formation Mechanisms of Inclusions in Spring Steels. *Minerals, Metals and Materials Series*, **2017**, 323-334	0.3	
543	A Heterostructure Coupling of Exfoliated Ni-Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. *Advanced Materials*, **2017**, 29, 1700017	24	651
542	Phase purification of GaAs nanowires by prolonging the growth duration in MBE. *Journal of Materials Chemistry C*, **2017**, 5, 5257-5262	7.1	8
541	Ultra-large elongation and dislocation behavior of nano-sized tantalum single crystals. *AIP Advances* , **2017**, 7, 045218	1.5	
540	Enhancing the thermoelectric performance of SnSe1−xTex nanoplates through band engineering. *Journal of Materials Chemistry A*, **2017**, 5, 10713-10721	13	68
539	n-type Bi-doped PbTe Nanocubes with Enhanced Thermoelectric Performance. *Nano Energy*, **2017**, 31, 105-112	17.1	84
538	Flower-like C@SnO X @C hollow nanostructures with enhanced electrochemical properties for lithium storage. *Nano Research*, **2017**, 10, 2966-2976	10	33
537	In situ observation of stress induced grain boundary migration in nanocrystalline gold. *Scripta Materialia*, **2017**, 134, 95-99	5.6	45
536	Surfactant-free Fabrication of Fullerene C Nanotubules Under Shear. *Angewandte Chemie - International Edition*, **2017**, 56, 8398-8401	16.4	46
535	Surfactant-free Fabrication of Fullerene C60 Nanotubules Under Shear. *Angewandte Chemie*, **2017**, 129, 8518-8521	3.6	10
534	Superconductivity and magnetotransport of single-crystalline NbSe nanoplates grown by chemical vapour deposition. *Nanoscale*, **2017**, 9, 16591-16595	7.7	12
533	Unexpected formation of a hierarchical structure in ternary InGaAs nanowires via "one-pot" growth. *Nanoscale*, **2017**, 9, 16960-16967	7.7	9
532	A thermodynamic structural model of graphene oxide. *Journal of Applied Physics*, **2017**, 122, 145101	2.5	8
531	Eco-Friendly SnTe Thermoelectric Materials: Progress and Future Challenges. *Advanced Functional Materials*, **2017**, 27, 1703278	15.6	220
530	Reducing electric current and energy consumption of spark plasma sintering via punch configuration design. *Ceramics International*, **2017**, 43, 17225-17228	5.1	4
529	Wafer-scale two-dimensional ferromagnetic Fe3GeTe2 thin films grown by molecular beam epitaxy. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	93
528	Plastic Deformation through Dislocation Saturation in Ultrasmall Pt Nanocrystals and Its in Situ Atomistic Mechanisms. *Nano Letters*, **2017**, 17, 4733-4739	11.5	47
527	High tensile-strength and ductile titanium matrix composites strengthened by TiB nanowires. *Scripta Materialia*, **2017**, 141, 133-137	5.6	83

526	Mechanically Driven Grain Boundary Formation in Nickel Nanowires. *ACS Nano*, **2017**, 11, 12500-12508	16.7	25
525	Self-Assembly Growth of In-Rich InGaAs Core-Shell Structured Nanowires with Remarkable Near-Infrared Photoresponsivity. *Nano Letters*, **2017**, 17, 7824-7830	11.5	32
524	Formation of GaAs/GaSb Core-Shell Heterostructured Nanowires Grown by Molecular-Beam Epitaxy. *Crystals*, **2017**, 7, 94	2.3	2
523	High-tensile-strength and ductile novel Ti-Fe-N-B alloys reinforced with TiB nanowires. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 708, 285-290	5.3	8
522	Spontaneous formation of core-shell GaAsP nanowires with enhanced electrical conductivity **2016**, 463-465		
521	Tunable Ambipolar Polarization-Sensitive Photodetectors Based on High-Anisotropy ReSe2 Nanosheets. *ACS Nano*, **2016**, 10, 8067-77	16.7	200
520	Temperature-dependent side-facets of GaAs nanopillars. *Semiconductor Science and Technology*, **2016**, 31, 094004	1.8	3
519	Direct observation of structural transitions in the phase change material Ge2Sb2Te5. *Journal of Materials Chemistry C*, **2016**, 4, 9303-9309	7.1	15
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