Yue Chen

List of Publications by Year in descending order

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169 papers	7,453 citations	94269 37 h-index	81 g-index
171	171	171	5112 citing authors
all docs	docs citations	times ranked	

#	Article	IF	Citations
1	Respiratory Compensated Robot for Liver Cancer Treatment: Design, Fabrication, and Benchtop Characterization. IEEE/ASME Transactions on Mechatronics, 2022, 27, 268-279.	3.7	13
2	Minimal artifact actively shimmed metallic needles in MRI. Magnetic Resonance in Medicine, 2022, 87, 541-550.	1.9	2
3	MR-Tracked Deflectable Stylet for Gynecologic Brachytherapy. IEEE/ASME Transactions on Mechatronics, 2022, 27, 407-417.	3.7	9
4	Pressure-induced metal–insulator transition in oxygen-deficient LiNbO3-type ferroelectrics. Journal of Physics Condensed Matter, 2022, 34, 025501.	0.7	2
5	Pressure and doping effects on the structural stability of thermoelectric BaAg ₂ Te ₂ . Journal of Physics Condensed Matter, 2022, 34, 065401.	0.7	O
6	Ultralow lattice thermal conductivity enables high thermoelectric performance in BaAg2Te2 alloys. Materials Today Physics, 2022, 22, 100591.	2.9	14
7	Anomalous transverse optical phonons in SnTe and PbTe. Physical Review B, 2022, 105, .	1.1	7
8	Tuning the Carrier Scattering Mechanism by Rare-Earth Element Doping for High Average <i>zT</i> in Mg ₃ Sb ₂ -Based Compounds. ACS Applied Materials & Description of the Substitution of the Carrier	4.0	16
9	MRI-Compatible Soft Robotic Sensing Pad for Head Motion Detection. IEEE Robotics and Automation Letters, 2022, 7, 3632-3639.	3.3	6
10	Tendon-Driven Soft Robotic Gripper for Blackberry Harvesting. IEEE Robotics and Automation Letters, 2022, 7, 2652-2659.	3.3	20
11	Dynamic Control of Soft Robotic Arm: A Simulation Study. IEEE Robotics and Automation Letters, 2022, 7, 3584-3591.	3.3	21
12	Minimally Invasive Intracerebral Hemorrhage Evacuation: A review. Annals of Biomedical Engineering, 2022, 50, 365-386.	1.3	4
13	Dynamical structural instability and its implications for the physical properties of infinite-layer nickelates. Physical Review B, 2022, 105, .	1.1	9
14	Determining Hand-harvest Parameters and Postharvest Marketability Impacts of Fresh-market Blackberries to Develop a Soft-robotic Gripper for Robotic Harvesting. Hortscience: A Publication of the American Society for Hortcultural Science, 2022, 57, 592-594.	0.5	1
15	Integrating band engineering with point defect scattering for high thermoelectric performance in Bi2Si2Te6. Chemical Engineering Journal, 2022, 441, 135968.	6.6	15
16	Achieving High Thermoelectric Performance by NaSbTe ₂ Alloying in GeTe for Simultaneous Suppression of Ge Vacancies and Band Tailoring. Advanced Energy Materials, 2022, 12, .	10.2	28
17	Hydrovoltaic energy harvesting from moisture flow using an ionic polymer–hydrogel–carbon composite. Energy and Environmental Science, 2022, 15, 2489-2498.	15.6	35
18	Temperature- and pressure-dependent phonon transport properties of SnS across phase transition from machine-learning interatomic potential. International Journal of Heat and Mass Transfer, 2022, 192, 122859.	2.5	9

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19	Critical phonon frequency renormalization and dual phonon coexistence in layered Ruddlesden-Popper inorganic perovskites. Physical Review B, 2022, 105, .	1.1	16
20	Design of a 6-DoF Parallel Robotic Platform for MRI Applications. Journal of Medical Robotics Research, 2022, 07, .	1.0	5
21	Role of long-range interaction on the electrical transport and electron–phonon scattering in thermoelectric Mg ₂ Si. Applied Physics Letters, 2022, 120, 263901.	1.5	2
22	Modal-Based Kinematics and Contact Detection of Soft Robots. Soft Robotics, 2021, 8, 298-309.	4.6	47
23	A Novel Robotic Guidance System With Eye-Gaze Tracking Control for Needle-Based Interventions. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 179-188.	2.6	21
24	Development of a Soft Robot Based Photodynamic Therapy for Pancreatic Cancer. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2977-2985.	3.7	10
25	Pressure effects on the electrical transport and anharmonic lattice dynamics of r-GeTe: A first-principles study. Journal of Materiomics, 2021, 7, 1190-1197.	2.8	7
26	Unusual Width Dependence of Lattice Thermal Conductivity in Ultranarrow Armchair Graphene Nanoribbons with Unpassivated Edges. Journal of Physical Chemistry C, 2021, 125, 6034-6042.	1.5	3
27	Negative linear compressibility and unusual dynamic behavior of NaB3. Physical Review Materials, 2021, 5, .	0.9	1
28	Mechanical alloying boosted SnTe thermoelectrics. Materials Today Physics, 2021, 17, 100340.	2.9	28
29	Pressure-induced electrides and metallic phases in the Y–Cl system. Journal of Physics Condensed Matter, 2021, 33, 215401.	0.7	2
30	First-Principles Study of the Atomic Structures and Catalytic Properties of Monolayer TaS ₂ with Intrinsic Defects. Journal of Physical Chemistry C, 2021, 125, 10362-10369.	1.5	22
31	Thermoelectric properties of p-type polycrystalline Bi0.8Sb0.8In0.4Se3. Applied Physics Letters, 2021, 118,	1.5	5
32	Point defect approach to enhance the thermoelectric performance of Zintl-phase BaAgSb. Science China Materials, 2021, 64, 2541-2550.	3 . 5	19
33	Pressure-Enriched Chemistry of Pt: Prediction and Synthesis of Dense Sodium Platinides. Journal of Physical Chemistry C, 2021, 125, 11791-11798.	1.5	1
34	Nonperturbative phonon scatterings and the two-channel thermal transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tl</mml:mi><mml:mphysical .<="" 103,="" 2021,="" b,="" review="" td=""><td>ın>£1/mm</td><td>l:m80 </td></mml:mphysical></mml:msub></mml:mrow></mml:math>	ın> £ 1/mm	l:m 80
35	Leveraging bipolar effect to enhance transverse thermoelectricity in semimetal Mg2Pb for cryogenic heat pumping. Nature Communications, 2021, 12, 3837.	5.8	24
36	Soft-mode dynamics in the ferroelectric phase transition of GeTe. Npj Computational Materials, 2021, 7,	3 . 5	11

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37	Highâ∈Energy SWCNT Cathode for Aqueous Alâ€Ion Battery Boosted by Multiâ€Ion Intercalation Chemistry. Advanced Energy Materials, 2021, 11, 2101514.	10.2	23
38	Anharmonic lattice dynamics of SnS across phase transition: A study using high-dimensional neural network potential. Applied Physics Letters, 2021, 119, .	1.5	5
39	Guest Editorial: Integrating sensor fusion and perception for human–robot interaction. Cognitive Computation and Systems, 2021, 3, 183-186.	0.8	0
40	Highâ€Performance MnO ₂ /Al Battery with In Situ Electrochemically Reformed Al <i></i> MnO ₂ Nanosphere Cathode. Small Methods, 2021, 5, e2100491.	4.6	25
41	Neuroevolution machine learning potentials: Combining high accuracy and low cost in atomistic simulations and application to heat transport. Physical Review B, 2021, 104, .	1.1	101
42	Intrinsic nanostructure induced ultralow thermal conductivity yields enhanced thermoelectric performance in Zintl phase Eu2ZnSb2. Nature Communications, 2021, 12, 5718.	5.8	34
43	Ultralow and glass-like lattice thermal conductivity in crystalline BaAg2Te2: Strong fourth-order anharmonicity and crucial diffusive thermal transport. Materials Today Physics, 2021, 21, 100487.	2.9	17
44	A first-principles study of Janus monolayer TiSSe and VSSe as anode materials in alkali metal ion batteries. Nanotechnology, 2021, 32, 025702.	1.3	16
45	Strain-engineered black arsenene as a promising gas sensor for detecting SO ₂ among SF ₆ decompositions. Nanotechnology, 2021, 32, 065501.	1.3	9
46	Highâ€Energy SWCNT Cathode for Aqueous Alâ€Ion Battery Boosted by Multiâ€Ion Intercalation Chemistry (Adv. Energy Mater. 39/2021). Advanced Energy Materials, 2021, 11, 2170155.	10.2	1
47	Optimization of the Intrinsic Electrical and Thermal Transport Properties of Sb ₂ Si ₂ Te ₆ via Tensile Strain: A First-Principles Study. ACS Applied Energy Materials, 2021, 4, 12285-12289.	2.5	3
48	Stronger three-phonon interactions revealed by molecular dynamics in materials with restricted phase space. Journal of Applied Physics, $2021,130,.$	1.1	4
49	Design of a 6 DoF Parallel Robot for MRI-guided Interventions. , 2021, , .		4
50	Revisiting phonon transport in perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3<td>nl:mเณ> <td>ml119sub></td></td></mml:mn></mml:msub></mml:math>	nl:m เณ> <td>ml119sub></td>	ml 119 sub>
51	Efficient electroreduction of CO2 to CO by Ag-decorated S-doped g-C3N4/CNT nanocomposites at industrial scale current density. Materials Today Physics, 2020, 12, 100176.	2.9	39
52	Strain and Doping in Two-Dimensional SnTe Nanosheets: Implications for Thermoelectric Conversion. ACS Applied Nano Materials, 2020, 3, 114-119.	2.4	12
53	Near-room-temperature rhombohedral Ge1-Pb Te thermoelectrics. Materials Today Physics, 2020, 15, 100260.	2.9	20
54	Effect of biaxial strain on thermal transport in WS2 monolayer from first principles calculations. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114312.	1.3	31

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55	Dynamic disorder phonon scattering mediated by Cu atomic hopping and diffusion in Cu3SbSe3. Npj Computational Materials, 2020, 6, .	3.5	7
56	MR-Conditional Actuations: A Review. Annals of Biomedical Engineering, 2020, 48, 2707-2733.	1.3	17
57	Modulation of Band Alignment and Electron–Phonon Scattering in Mg3Sb2 via Pressure. ACS Applied Electronic Materials, 2020, 2, 2745-2749.	2.0	8
58	Disturbance-Observer-Based Fuzzy Control for a Robot Manipulator Using an EMG-Driven Neuromusculoskeletal Model. Complexity, 2020, 2020, 1-10.	0.9	5
59	Improving near-room-temperature thermoelectrics in SnTe–MnTe alloys. Applied Physics Letters, 2020, 116, .	1.5	16
60	Quasi-Direct Drive Actuation for a Lightweight Hip Exoskeleton With High Backdrivability and High Bandwidth. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1794-1802.	3.7	75
61	Thermoelectric Enhancements in PbTe Alloys Due to Dislocationâ€Induced Strains and Converged Bands. Advanced Science, 2020, 7, 1902628.	5.6	78
62	Effect of group-3 elements doping on promotion of in-plane Seebeck coefficient of n-type Mg3Sb2. Journal of Materiomics, 2020, 6, 274-279.	2.8	13
63	Highly selective phonon diffusive scattering in superionic layered AgCrSe2. Npj Computational Materials, 2020, 6, .	3.5	17
64	Atomic disordering advances thermoelectric group IV telluride alloys with a multiband transport. Materials Today Physics, 2020, 15, 100247.	2.9	22
65	Black arsenene as a promising anisotropic sensor with high sensitivity and selectivity: insights from a first-principles investigation. Journal of Materials Chemistry C, 2020, 8, 4073-4080.	2.7	18
66	The exotically stoichiometric compounds in Al–S system under high pressure. Npj Computational Materials, 2020, 6, .	3.5	21
67	Doping induced charge density wave in monolayer TiS2 and phonon-mediated superconductivity. Journal of Applied Physics, 2020, 127, 044301.	1.1	9
68	Shear deformation behavior of the austenitic \hat{E} 3{1 \hat{A} 1 \hat{A} 2} twin boundary in NiTi shape memory alloy: An atomistic study. Applied Surface Science, 2020, 509, 145318.	3.1	4
69	Anharmonic lattice dynamics and thermal transport of monolayer InSe under equibiaxial tensile strains. Journal of Physics Condensed Matter, 2020, 32, 475702.	0.7	15
70	Crystal and electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ga</mml:mi><mml:msub><mml .<="" 102,="" 2020,="" b,="" calculations.="" first-principles="" from="" physical="" review="" td=""><td>:mi>II.a<td>ml:mi><mml:m< td=""></mml:m<></td></td></mml></mml:msub></mml:mrow></mml:math>	:mi> II.a <td>ml:mi><mml:m< td=""></mml:m<></td>	ml:mi> <mml:m< td=""></mml:m<>
71	Manipulation of Band Degeneracy and Lattice Strain for Extraordinary PbTe Thermoelectrics. Research, 2020, 2020, 8151059.	2.8	23
72	MR-Guided Tissue Puncture with On-Line Imaging for High-Resolution Theranostics. , 2020, , .		5

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73	Extraordinary Role of Bi for Improving Thermoelectrics in Low-Solubility SnTe–CdTe Alloys. ACS Applied Materials & amp; Interfaces, 2019, 11, 26093-26099.	4.0	35
74	Pressure-induced Ge ₂ Se ₃ and Ge ₃ Se ₄ crystals with low superconducting transition temperatures. Physical Chemistry Chemical Physics, 2019, 21, 15417-15421.	1.3	1
75	Understanding the effects of iodine doping on the thermoelectric performance of n-type PbTe ingot materials. Journal of Applied Physics, 2019, 126, .	1.1	12
76	Closed Loop Control of an MR-Conditional Robot with Wireless Tracking Coil Feedback. Annals of Biomedical Engineering, 2019, 47, 2322-2333.	1.3	6
77	Fiber Optic Shape Sensing for Soft Robotics. Soft Robotics, 2019, 6, 671-684.	4.6	93
78	Dilute Cu2Te-alloying enables extraordinary performance of r-GeTe thermoelectrics. Materials Today Physics, 2019, 9, 100096.	2.9	74
79	Enhanced thermoelectric performance of GeTe through <i>in situ</i> microdomain and Ge-vacancy control. Journal of Materials Chemistry A, 2019, 7, 15181-15189.	5.2	56
80	First principles investigation of Be3X2 (X = N, P, As) and their alloys for solar cell applications. Journal of Alloys and Compounds, 2019, 795, 385-390.	2.8	5
81	Delocalized Carriers and the Electrical Transport Properties of n-Type GeSe Crystals. ACS Applied Energy Materials, 2019, 2, 3703-3707.	2.5	7
82	Anharmonic lattice dynamics of Te and its counter-intuitive strain dependent lattice thermal conductivity. Journal of Materials Chemistry C, 2019, 7, 5970-5974.	2.7	9
83	Au monolayer on WC(0001) with enhanced activity towards NO oxidation: A theoretical study. Applied Surface Science, 2019, 481, 369-373.	3.1	12
84	Lattice Strain Advances Thermoelectrics. Joule, 2019, 3, 1276-1288.	11.7	333
85	Maximization of transporting bands for high-performance SnTe alloy thermoelectrics. Materials Today Physics, 2019, 9, 100091.	2.9	45
86	Unveiling a Novel, Cation-Rich Compound in a High-Pressure Pb–Te Binary System. ACS Central Science, 2019, 5, 683-687.	5.3	4
87	Magnetic Resonance Conditional Microinjector. Journal of Imaging, 2019, 5, 4.	1.7	3
88	Achieving a fine balance between the strong mechanical and high thermoelectric properties of n-type PbTe–3% Sb materials by alloying with PbS. Journal of Materials Chemistry A, 2019, 7, 6304-6311.	5.2	24
89	Band engineering and hybridization of competing arsenene allotropes: a computational study. Physical Chemistry Chemical Physics, 2019, 21, 24499-24505.	1.3	6
90	MR-conditional steerable needle robot for intracerebral hemorrhage removal. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 105-115.	1.7	29

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91	Stereotactic Systems for MRI-Guided Neurosurgeries: A State-of-the-Art Review. Annals of Biomedical Engineering, 2019, 47, 335-353.	1.3	28
92	Phonon thermal conduction in a graphene–C ₃ N heterobilayer using molecular dynamics simulations. Nanotechnology, 2019, 30, 075403.	1.3	55
93	Coexistence of polar displacements and conduction in doped ferroelectrics: An <i>ab initio</i> comparative study. Physical Review Materials, 2019, 3, .	0.9	14
94	Enhanced Out-of-Plane Electrical Transport in n-Type SnSe Thermoelectrics Induced by Resonant States and Charge Delocalization. ACS Applied Materials & Enhanced States and Charge Delocalization. ACS Applied Materials & Enhanced States and Charge Delocalization. ACS Applied Materials & Enhanced States and Charge Delocalization. ACS Applied Materials & Enhanced States and Charge Delocalization.	4.0	16
95	Ferroelectric engineering of two-dimensional group-IV monochalcogenides: The effects of alloying and strain. Journal of Materiomics, 2018, 4, 139-143.	2.8	21
96	Large local lattice expansion in graphene adlayers grown on copper. Nature Materials, 2018, 17, 450-455.	13.3	13
97	Critical Role of Water in Defect Aggregation and Chemical Degradation of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 2196-2201.	2.1	104
98	MRI-Guided Robotically Assisted Focal Laser Ablation of the Prostate Using Canine Cadavers. IEEE Transactions on Biomedical Engineering, 2018, 65, 1434-1442.	2.5	36
99	Liquid-like thermal conduction in intercalated layered crystalline solids. Nature Materials, 2018, 17, 226-230.	13.3	136
100	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987.	11.7	402
100	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987. Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409.	11.7 5.4	402
	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126,		
101	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409. Symmetrical tilt grain boundary engineering of NiTi shapeÂmemoryÂalloy: An atomistic insight. Materials	5.4	4
101	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409. Symmetrical tilt grain boundary engineering of NiTi shapeÂmemoryÂalloy: An atomistic insight. Materials and Design, 2018, 137, 361-370.	5.4	20
101 102 103	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409. Symmetrical tilt grain boundary engineering of NiTi shapeÂmemoryÂalloy: An atomistic insight. Materials and Design, 2018, 137, 361-370. Dynamic Modeling and Characterization of the Core- XyCartesian Motion System., 2018, , . Large enhancement of electrical transport properties of SnS in the out-of-plane direction by n-type	5.4 3.3	20
101 102 103	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409. Symmetrical tilt grain boundary engineering of NiTi shapeÂmemoryÂalloy: An atomistic insight. Materials and Design, 2018, 137, 361-370. Dynamic Modeling and Characterization of the Core- XyCartesian Motion System., 2018, , . Large enhancement of electrical transport properties of SnS in the out-of-plane direction by n-type doping: a combined ARPES and DFT study. Journal of Materials Chemistry A, 2018, 6, 24588-24594. Ground-state crystal structures of superconducting Nb3Al and the phase transformation under high	5.4 3.3 5.2	20 2 22
101 102 103 104	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409. Symmetrical tilt grain boundary engineering of NiTi shapeÂmemoryÂalloy: An atomistic insight. Materials and Design, 2018, 137, 361-370. Dynamic Modeling and Characterization of the Core- XyCartesian Motion System., 2018, . Large enhancement of electrical transport properties of SnS in the out-of-plane direction by n-type doping: a combined ARPES and DFT study. Journal of Materials Chemistry A, 2018, 6, 24588-24594. Ground-state crystal structures of superconducting Nb3Al and the phase transformation under high pressures. Journal of Applied Physics, 2018, 124, 173902. MRI Robot for Prostate Focal Laser Ablation: An Ex Vivo Study in Human Prostate. Journal of Imaging,	5.4 3.3 5.2	2 2 2 22 7

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109	Thermoelectric Transport Properties of Cd _{<i>x</i>x} Bi _{<i>y</i>} Ge _{1–<i>x</i>–<i>y</i>} Te Alloys. ACS Applied Materials & amp; Interfaces, 2018, 10, 39904-39911.	4.0	41
110	Unraveling a novel ferroelectric GeSe phase and its transformation into a topological crystalline insulator under high pressure. NPG Asia Materials, 2018, 10, 882-887.	3.8	27
111	3D charge and 2D phonon transports leading to high out-of-plane <i>ZT</i> in n-type SnSe crystals. Science, 2018, 360, 778-783.	6.0	859
112	Soft Robotics in Medical Applications. Journal of Medical Robotics Research, 2018, 03, 1841006.	1.0	17
113	Manipulation of Band Structure and Interstitial Defects for Improving Thermoelectric SnTe. Advanced Functional Materials, 2018, 28, 1803586.	7.8	183
114	A hidden symmetry-broken phase of MoS ₂ revealed as a superior photovoltaic material. Journal of Materials Chemistry A, 2018, 6, 16087-16093.	5.2	16
115	Extraordinary thermoelectric performance in n-type manganese doped Mg3Sb2 Zintl: High band degeneracy, tuned carrier scattering mechanism and hierarchical microstructure. Nano Energy, 2018, 52, 246-255.	8.2	188
116	Orbital Alignment for High Performance Thermoelectric YbCd ₂ Sb ₂ Alloys. Chemistry of Materials, 2018, 30, 5339-5345.	3.2	50
117	Manipulation of Solubility and Interstitial Defects for Improving Thermoelectric SnTe Alloys. ACS Energy Letters, 2018, 3, 1969-1974.	8.8	69
118	Giant Phonon Tuning Effect via Pressure-Manipulated Polar Rotation in Perovskite MAPbl ₃ . Journal of Physical Chemistry Letters, 2018, 9, 3029-3034.	2.1	14
119	Realizing high performance n-type PbTe by synergistically optimizing effective mass and carrier mobility and suppressing bipolar thermal conductivity. Energy and Environmental Science, 2018, 11, 2486-2495.	15.6	200
120	Unexpected High-Pressure Phase of GeTe with an Origin of Low Ionicity and Electron Delocalization. Journal of Physical Chemistry C, 2018, 122, 15673-15677.	1.5	13
121	Molecular dynamics study of thermal transport in a dinaphtho[2,3-b:2′,3′-f]thieno[3,2-b]thiophene (DNTT) organic semiconductor. Nanoscale, 2017, 9, 2262-2271.	2.8	31
122	The role of strain glass state in the shape memory alloy Ni50+Ti50â^': Insight from an atomistic study. Materials and Design, 2017, 120, 238-254.	3.3	13
123	Substitutional defects enhancing thermoelectric CuGaTe ₂ . Journal of Materials Chemistry A, 2017, 5, 5314-5320.	5.2	87
124	Fabricating biomedical origami: a state-of-the-art review. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2023-2032.	1.7	95
125	Thermal transport and anharmonic phonons in strained monolayer hexagonal boron nitride. Scientific Reports, 2017, 7, 43956.	1.6	17
126	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. Advanced Materials, 2017, 29, 1606768.	11.1	365

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127	Ground-State Crystal Structure of Strontium Peroxide Predicted from First Principles. Inorganic Chemistry, 2017, 56, 7545-7549.	1.9	7
128	Pressure-Stabilized Tin Selenide Phase with an Unexpected Stoichiometry and a Predicted Superconducting State at Low Temperatures. Physical Review Letters, 2017, 118, 137002.	2.9	29
129	Resonant doping in BiCuSeO thermoelectrics from first principles. Journal of Materials Chemistry A, 2017, 5, 931-936.	5. 2	15
130	Simultaneous Optimization of Carrier Concentration and Alloy Scattering for Ultrahigh Performance GeTe Thermoelectrics. Advanced Science, 2017, 4, 1700341.	5.6	151
131	Abnormal negative thermal expansion of sodium: A first-principles discovery at high pressures. Physical Review B, 2017, 96, .	1.1	7
132	High Thermoelectric Performance of Ag9GaSe6 Enabled by Low Cutoff Frequency of Acoustic Phonons. Joule, 2017, 1, 816-830.	11.7	195
133	Novel two-dimensional ferroelectric PbTe under tension: A first-principles prediction. Journal of Applied Physics, 2017, 122, .	1.1	30
134	The TMS 2017 146th Annual Meeting and Exhibition. Powder Diffraction, 2017, 32, 217-218.	0.4	0
135	First-principles study of the small molecule adsorption on the InSe monolayer. Applied Surface Science, 2017, 426, 244-252.	3.1	100
136	Cardiovascular Catheter With an Expandable Origami Structure. Journal of Medical Devices, Transactions of the ASME, 2017, 11 , .	0.4	6
137	Silicon As an Unexpected n-Type Dopant in BiCuSeO Thermoelectrics. ACS Applied Materials & Samp; Interfaces, 2017, 9, 27372-27376.	4.0	14
138	Performance optimization and single parabolic band behavior of thermoelectric MnTe. Journal of Materials Chemistry A, 2017, 5, 19143-19150.	5.2	53
139	Investigation of interfacial thermal transport across graphene and an organic semiconductor using molecular dynamics simulations. Physical Chemistry Chemical Physics, 2017, 19, 15933-15941.	1.3	21
140	Single parabolic band transport in p-type EuZn ₂ Sb ₂ thermoelectrics. Journal of Materials Chemistry A, 2017, 5, 24185-24192.	5.2	38
141	Robotic System for MRI-Guided Focal Laser Ablation in the Prostate. IEEE/ASME Transactions on Mechatronics, 2017, 22, 107-114.	3.7	39
142	Integrating Band Structure Engineering with Allâ€Scale Hierarchical Structuring for High Thermoelectric Performance in PbTe System. Advanced Energy Materials, 2017, 7, 1601450.	10.2	157
143	Characterization and Control of a Pneumatic Motor for MR-Conditional Robotic Applications. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2780-2789.	3.7	27
144	An MRI-Compatible Robot for Intracerebral Hemorrhage Removal. , 2017, , .		7

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145	Analysis of origin and protein-protein interaction maps suggests distinct oncogenic role of nuclear EGFR during cancer evolution. Journal of Cancer, 2017, 8, 903-912.	1.2	7
146	Magnetic Resonance Imaging Compatible Pneumatic Stepper Motor With Geneva Drive1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	3
147	Robot for Magnetic Resonance Imaging Guided Focal Prostate Laser Ablation 1. Journal of Medical Devices, Transactions of the ASME, 2016, 10 , .	0.4	4
148	Bidirectional Soft Silicone Curvature Sensor Based on Off-Centered Embedded Fiber Bragg Grating. IEEE Photonics Technology Letters, 2016, 28, 2237-2240.	1.3	71
149	Cooperative effect of silicon and other alloying elements on creep resistance of titanium alloys: insight from first-principles calculations. Scientific Reports, 2016, 6, 30611.	1.6	21
150	Enhanced power factor via the control of structural phase transition in SnSe. Scientific Reports, 2016, 6, 26193.	1.6	32
151	Follow-the-Leader Deployment of Steerable Needles Using a Magnetic Resonance-Compatible Robot With Stepper Actuators 1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	3
152	Interstitial Point Defect Scattering Contributing to High Thermoelectric Performance in SnTe. Advanced Electronic Materials, 2016, 2, 1600019.	2.6	235
153	Origin of the strain glass transition in Ti50(Ni50â^ÂD) alloys. Journal of Alloys and Compounds, 2016, 678, 325-328.	2.8	4
154	Design and Fabrication of MR-Tracked Metallic Stylet for Gynecologic Brachytherapy. IEEE/ASME Transactions on Mechatronics, 2016, 21, 956-962.	3.7	30
155	Band and scattering tuning for high performance thermoelectric Sn1â^'xMnxTe alloys. Journal of Materiomics, 2015, 1, 307-315.	2.8	193
156	Evaluation of an active magnetic resonance tracking system for interstitial brachytherapy. Medical Physics, 2015, 42, 7114-7121.	1.6	38
157	GPU-based proximity query processing on unstructured triangular mesh model. , 2015, , .		3
158	Intra-cardiac MR imaging & DR-tracking catheter for improved MR-guided EP. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P237.	1.6	10
159	Synergistically optimized electrical and thermal transport properties of SnTe via alloying high-solubility MnTe. Energy and Environmental Science, 2015, 8, 3298-3312.	15.6	268
160	A 10-mm MR-Conditional Unidirectional Pneumatic Stepper Motor. IEEE/ASME Transactions on Mechatronics, 2015, 20, 782-788.	3.7	30
161	Spiral-structured fiber Bragg grating for contact force sensing through direct power measurement. Optics Express, 2014, 22, 10439.	1.7	16
162	MRI-based visual and haptic catheter feedback: simulating a novel system's contribution to efficient and safe MRI-guided cardiac electrophysiology procedures. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O50.	1.6	14

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#	Article	IF	CITATION
163	An MR-Conditional High-Torque Pneumatic Stepper Motor for MRI-Guided and Robot-Assisted Intervention Annals of Biomedical Engineering 2014, 42: 1823-1833. Atomic simulation of bcc miobium milimath smins: mmilimath smins: "http://www.w3.org/1998/Math/MathML"	1.3	47
164	altimg="si2.gif" overflow="scroll"> <mml:mrow><mml:mi mathvariant="normal">Σ</mml:mi></mml:mrow> 5 <mml:math altimg="si3.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo< td=""><td>3.8</td><td>21</td></mml:mo<></mml:mrow></mml:math>	3.8	21
165	stretchy="false">ã€^ <mml:mn>001</mml:mn> <mml:mo stretchy="false">ã€%</mml:mo> <mml:mrow 105501.<="" 113,="" 2014,="" anomalous="" approach="" dynamics:="" first-principles="" in="" lattice="" letters,="" nonlinear="" pbte.="" physical="" review="" spectra="" td="" to=""><td>2.9</td><td>42</td></mml:mrow>	2.9	42
166	Augmented Reality for Improving Catheterization in Magnetic Resonance Imaging-Guided Cardiac Electrophysiology Therapy 1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.4	4
167	Predicted Suppression of the Superconducting Transition of New High-Pressure Yttrium Phases with Increasing Pressure from First-Principles Calculations. Physical Review Letters, 2012, 109, 157004.	2.9	31
168	Effects of alloying element Ti on $\hat{l}\pm$ -Nb5Si3and Nb3Al from first principles. Journal of Physics Condensed Matter, 2007, 19, 016215.	0.7	23
169	Modulation of Electrical and Thermal Transports through Lattice Distortion in BaTi _{1–<i>x</i>} Nb <i> _x </i> O ₃ Solid Solutions. Nanotechnology, 0, , .	1.3	1