Yue Chen

List of Publications by Year
in descending order

169	7,453	94269	60497
papers	citations	37 h-index	81 g-index

171	171	171	5112
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D charge and 2D phonon transports leading to high out-of-plane ZT in n-type SnSe crystals. Science, 2018, 360, 778-783.	6.0	859
2	Low-Symmetry Rhombohedral GeTe Thermoelectrics. Joule, 2018, 2, 976-987.	11.7	402
3	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. Advanced Materials, 2017, 29, 1606768.	11.1	365
4	Lattice Strain Advances Thermoelectrics. Joule, 2019, 3, 1276-1288.	11.7	333
5	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
6	Interstitial Point Defect Scattering Contributing to High Thermoelectric Performance in SnTe. Advanced Electronic Materials, 2016, 2, 1600019.	2.6	235
7	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
8	High Thermoelectric Performance of Ag9GaSe6 Enabled by Low Cutoff Frequency of Acoustic Phonons. Joule, 2017, 1, 816-830.	11.7	195
9	Band and scattering tuning for high performance thermoelectric Sn1â^'xMnxTe alloys. Journal of Materiomics, 2015, 1, 307-315.	2.8	193
10	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
11	Manipulation of Band Structure and Interstitial Defects for Improving Thermoelectric SnTe. Advanced Functional Materials, 2018, 28, 1803586.	7.8	183
12	Vacancy Manipulation for Thermoelectric Enhancements in GeTe Alloys. Journal of the American Chemical Society, 2018, 140, 15883-15888.	6.6	182
13	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
14	Simultaneous Optimization of Carrier Concentration and Alloy Scattering for Ultrahigh Performance GeTe Thermoelectrics. Advanced Science, 2017, 4, 1700341.	5.6	151
15	Liquid-like thermal conduction in intercalated layered crystalline solids. Nature Materials, 2018, 17, 226-230.	13.3	136
16	High-Performance GeTe Thermoelectrics in Both Rhombohedral and Cubic Phases. Journal of the American Chemical Society, 2018, 140, 16190-16197.	6.6	108
17	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
18	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

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19	First-principles study of the small molecule adsorption on the InSe monolayer. Applied Surface Science, 2017, 426, 244-252.	3.1	100
20	Fabricating biomedical origami: a state-of-the-art review. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2023-2032.	1.7	95
21	Fiber Optic Shape Sensing for Soft Robotics. Soft Robotics, 2019, 6, 671-684.	4.6	93
22	Substitutional defects enhancing thermoelectric CuGaTe₂. Journal of Materials Chemistry A, 2017, 5, 5314-5320.	5.2	87
23	Thermoelectric Enhancements in PbTe Alloys Due to Dislocationâ€Induced Strains and Converged Bands. Advanced Science, 2020, 7, 1902628.	5.6	78
24	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
25	Dilute Cu2Te-alloying enables extraordinary performance of r-GeTe thermoelectrics. Materials Today Physics, 2019, 9, 100096.	2.9	74
26	Bidirectional Soft Silicone Curvature Sensor Based on Off-Centered Embedded Fiber Bragg Grating. IEEE Photonics Technology Letters, 2016, 28, 2237-2240.	1.3	71
27	Manipulation of Solubility and Interstitial Defects for Improving Thermoelectric SnTe Alloys. ACS Energy Letters, 2018, 3, 1969-1974.	8.8	69
28	Enhanced thermoelectric performance of GeTe through in situ microdomain and Ge-vacancy control. Journal of Materials Chemistry A, 2019, 7, 15181-15189.	5.2	56
29	Phonon thermal conduction in a grapheneâ€“C₃N heterobilayer using molecular dynamics simulations. Nanotechnology, 2019, 30, 075403.	1.3	55
30	Performance optimization and single parabolic band behavior of thermoelectric MnTe. Journal of Materials Chemistry A, 2017, 5, 19143-19150.	5.2	53
31	Orbital Alignment for High Performance Thermoelectric YbCd₂Sb₂ Alloys. Chemistry of Materials, 2018, 30, 5339-5345.	3.2	50
32	An MR-Conditional High-Torque Pneumatic Stepper Motor for MRI-Guided and Robot-Assisted Intervention. Annals of Biomedical Engineering, 2014, 42, 1823-1833.	1.3	47
33	Modal-Based Kinematics and Contact Detection of Soft Robots. Soft Robotics, 2021, 8, 298-309.	4.6	47
34	Maximization of transporting bands for high-performance SnTe alloy thermoelectrics. Materials Today Physics, 2019, 9, 100091.	2.9	45
35	First-Principles Approach to Nonlinear Lattice Dynamics: Anomalous Spectra in PbTe. Physical Review Letters, 2014, 113, 105501.	2.9	42
36	Thermoelectric Transport Properties of Cd_xBi_yGe_{1â€“xâ€“y}Te Alloys. ACS Applied Materials & Interfaces, 2018, 10, 39904-39911.	4.0	41

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37	Robotic System for MRI-Guided Focal Laser Ablation in the Prostate. IEEE/ASME Transactions on Mechatronics, 2017, 22, 107-114.	3.7	39
38	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
39	Evaluation of an active magnetic resonance tracking system for interstitial brachytherapy. Medical Physics, 2015, 42, 7114-7121.	1.6	38
40	Single parabolic band transport in p-type EuZn₂Sb₂ thermoelectrics. Journal of Materials Chemistry A, 2017, 5, 24185-24192.	5.2	38
41	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
42	Extraordinary Role of Bi for Improving Thermoelectrics in Low-Solubility SnTeâ€“CdTe Alloys. ACS Applied Materials & Interfaces, 2019, 11, 26093-26099.	4.0	35
43	Hydrovoltaic energy harvesting from moisture flow using an ionic polymerâ€“hydrogelâ€“carbon composite. Energy and Environmental Science, 2022, 15, 2489-2498.	15.6	35
44	Intrinsic nanostructure induced ultralow thermal conductivity yields enhanced thermoelectric performance in Zintl phase Eu2ZnSb2. Nature Communications, 2021, 12, 5718.	5.8	34
45	Enhanced power factor via the control of structural phase transition in SnSe. Scientific Reports, 2016, 6, 26193.	1.6	32
46	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
47	Molecular dynamics study of thermal transport in a dinaphtho[2,3-b:2â€²,3â€²-f]thieno[3,2-b]thiophene (DNTT) organic semiconductor. Nanoscale, 2017, 9, 2262-2271.	2.8	31
48	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
49	A 10-mm MR-Conditional Unidirectional Pneumatic Stepper Motor. IEEE/ASME Transactions on Mechatronics, 2015, 20, 782-788.	3.7	30
50	Design and Fabrication of MR-Tracked Metallic Stylet for Gynecologic Brachytherapy. IEEE/ASME Transactions on Mechatronics, 2016, 21, 956-962.	3.7	30
51	Novel two-dimensional ferroelectric PbTe under tension: A first-principles prediction. Journal of Applied Physics, 2017, 122, .	1.1	30
52	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:mn>3</mml:mn></mml:msub></mml:mrow></mml:m Physical Review B, 2021, 103, .	3.1	30
53	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
54	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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55	Stereotactic Systems for MRI-Guided Neurosurgeries: A State-of-the-Art Review. Annals of Biomedical Engineering, 2019, 47, 335-353.	1.3	28
56	Mechanical alloying boosted SnTe thermoelectrics. Materials Today Physics, 2021, 17, 100340.	2.9	28
57	Achieving High Thermoelectric Performance by NaSbTe₂ Alloying in GeTe for Simultaneous Suppression of Ge Vacancies and Band Tailoring. Advanced Energy Materials, 2022, 12, .	10.2	28
58	Characterization and Control of a Pneumatic Motor for MR-Conditional Robotic Applications. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2780-2789.	3.7	27
59	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
60	Highâ€Performance MnO₂/Al Battery with In Situ Electrochemically Reformed Al_xMnO₂ Nanosphere Cathode. Small Methods, 2021, 5, e2100491.	4.6	25
61	Achieving a fine balance between the strong mechanical and high thermoelectric properties of n-type PbTeâ€“3% Sb materials by alloying with PbS. Journal of Materials Chemistry A, 2019, 7, 6304-6311.	5.2	24
62	Leveraging bipolar effect to enhance transverse thermoelectricity in semimetal Mg2Pb for cryogenic heat pumping. Nature Communications, 2021, 12, 3837.	5.8	24
63	Effects of alloying element Ti on Î±-Nb5Si3and Nb3Al from first principles. Journal of Physics Condensed Matter, 2007, 19, 016215.	0.7	23
64	Highâ€Energy SWCNT Cathode for Aqueous Alâ€Ion Battery Boosted by Multiâ€Ion Intercalation Chemistry. Advanced Energy Materials, 2021, 11, 2101514.	10.2	23
65	Manipulation of Band Degeneracy and Lattice Strain for Extraordinary PbTe Thermoelectrics. Research, 2020, 2020, 8151059.	2.8	23
66	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.	5.2	22
67	Atomic disordering advances thermoelectric group IV telluride alloys with a multiband transport. Materials Today Physics, 2020, 15, 100247.	2.9	22
68	First-Principles Study of the Atomic Structures and Catalytic Properties of Monolayer TaS₂ with Intrinsic Defects. Journal of Physical Chemistry C, 2021, 125, 10362-10369.	1.5	22
69	Atomic disordering advances thermoelectric group IV telluride alloys with a multiband transport. Materials Today Physics, 2020, 15, 100247.	3.8	21
70	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
71	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
72	Ferroelectric engineering of two-dimensional group-IV monochalcogenides: The effects of alloying and strain. Journal of Materiomics, 2018, 4, 139-143.	2.8	21

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73	The exotically stoichiometric compounds in Alâ€“S system under high pressure. Npj Computational Materials, 2020, 6, .	3.5	21
74	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
75	Dynamic Control of Soft Robotic Arm: A Simulation Study. IEEE Robotics and Automation Letters, 2022, 7, 3584-3591.	3.3	21
76	Symmetrical tilt grain boundary engineering of NiTi shapeÂmemoryÂalloy: An atomistic insight. Materials and Design, 2018, 137, 361-370.	3.3	20
77	Near-room-temperature rhombohedral Ge1-Pb Te thermoelectrics. Materials Today Physics, 2020, 15, 100260.	2.9	20
78	Tendon-Driven Soft Robotic Gripper for Blackberry Harvesting. IEEE Robotics and Automation Letters, 2022, 7, 2652-2659.	3.3	20
79	Point defect approach to enhance the thermoelectric performance of Zintl-phase BaAgSb. Science China Materials, 2021, 64, 2541-2550.	3.5	19
80	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</mml:mn></mml:msub></m : Anharmonic phonon renormalization and four-phonon scattering. Physical Review B, 2021, 104, .	3.1	19
81	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
82	Thermal transport and anharmonic phonons in strained monolayer hexagonal boron nitride. Scientific Reports, 2017, 7, 43956.	1.6	17
83	Soft Robotics in Medical Applications. Journal of Medical Robotics Research, 2018, 03, 1841006.	1.0	17
84	MR-Conditional Actuations: A Review. Annals of Biomedical Engineering, 2020, 48, 2707-2733.	1.3	17
85	Highly selective phonon diffusive scattering in superionic layered AgCrSe2. Npj Computational Materials, 2020, 6, .	3.5	17
86	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
87	Spiral-structured fiber Bragg grating for contact force sensing through direct power measurement. Optics Express, 2014, 22, 10439.	1.7	16
88	Enhanced Out-of-Plane Electrical Transport in n-Type SnSe Thermoelectrics Induced by Resonant States and Charge Delocalization. ACS Applied Materials & Interfaces, 2018, 10, 9889-9893.	4.0	16
89	A hidden symmetry-broken phase of MoS₂ revealed as a superior photovoltaic material. Journal of Materials Chemistry A, 2018, 6, 16087-16093.	5.2	16
90	Improving near-room-temperature thermoelectrics in SnTeâ€“MnTe alloys. Applied Physics Letters, 2020, 116, .	1.5	16

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91	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
92	Tuning the Carrier Scattering Mechanism by Rare-Earth Element Doping for High Average zT in Mg₃Sb₂-Based Compounds. ACS Applied Materials & Interfaces, 2022, 14, 7022-7029.	4.0	16
93	Critical phonon frequency renormalization and dual phonon coexistence in layered Ruddlesden-Popper inorganic perovskites. Physical Review B, 2022, 105, .	1.1	16
94	Resonant doping in BiCuSeO thermoelectrics from first principles. Journal of Materials Chemistry A, 2017, 5, 931-936.	5.2	15
95	Anharmonic lattice dynamics and thermal transport of monolayer InSe under equibiaxial tensile strains. Journal of Physics Condensed Matter, 2020, 32, 475702.	0.7	15
96	Integrating band engineering with point defect scattering for high thermoelectric performance in Bi2Si2Te6. Chemical Engineering Journal, 2022, 441, 135968.	6.6	15
97	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
98	Silicon As an Unexpected n-Type Dopant in BiCuSeO Thermoelectrics. ACS Applied Materials & Interfaces, 2017, 9, 27372-27376.	4.0	14
99	Giant Phonon Tuning Effect via Pressure-Manipulated Polar Rotation in Perovskite MAPbI₃. Journal of Physical Chemistry Letters, 2018, 9, 3029-3034.	2.1	14
100	Coexistence of polar displacements and conduction in doped ferroelectrics: An ab initio comparative study. Physical Review Materials, 2019, 3, .	0.9	14
101	Ultralow lattice thermal conductivity enables high thermoelectric performance in BaAg2Te2 alloys. Materials Today Physics, 2022, 22, 100591.	2.9	14
102	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
103	Large local lattice expansion in graphene adlayers grown on copper. Nature Materials, 2018, 17, 450-455.	13.3	13
104	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
105	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
106	Respiratory Compensated Robot for Liver Cancer Treatment: Design, Fabrication, and Benchtop Characterization. IEEE/ASME Transactions on Mechatronics, 2022, 27, 268-279.	3.7	13
107	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
108	Au monolayer on WC(0001) with enhanced activity towards NO oxidation: A theoretical study. Applied Surface Science, 2019, 481, 369-373.	3.1	12

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109	Strain and Doping in Two-Dimensional SnTe Nanosheets: Implications for Thermoelectric Conversion. ACS Applied Nano Materials, 2020, 3, 114-119.	2.4	12
110	Soft-mode dynamics in the ferroelectric phase transition of GeTe. Npj Computational Materials, 2021, 7, .	3.5	11
111	Intra-cardiac MR imaging & MR-tracking catheter for improved MR-guided EP. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P237.	1.6	10
112	Development of a Soft Robot Based Photodynamic Therapy for Pancreatic Cancer. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2977-2985.	3.7	10
113	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
114	Doping induced charge density wave in monolayer TiS2 and phonon-mediated superconductivity. Journal of Applied Physics, 2020, 127, 044301.	1.1	9
115	MR-Tracked Deflectable Stylet for Gynecologic Brachytherapy. IEEE/ASME Transactions on Mechatronics, 2022, 27, 407-417.	3.7	9
116	Strain-engineered black arsenene as a promising gas sensor for detecting SO₂ among SF₆ decompositions. Nanotechnology, 2021, 32, 065501.	1.3	9
117	Dynamical structural instability and its implications for the physical properties of infinite-layer nickelates. Physical Review B, 2022, 105, .	1.1	9
118	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
119	MRI Robot for Prostate Focal Laser Ablation: An Ex Vivo Study in Human Prostate. Journal of Imaging, 2018, 4, 140.	1.7	8
120	Modulation of Band Alignment and Electronâ€“Phonon Scattering in Mg3Sb2 via Pressure. ACS Applied Electronic Materials, 2020, 2, 2745-2749.	2.0	8
121	Ground-State Crystal Structure of Strontium Peroxide Predicted from First Principles. Inorganic Chemistry, 2017, 56, 7545-7549.	1.9	7
122	Abnormal negative thermal expansion of sodium: A first-principles discovery at high pressures. Physical Review B, 2017, 96, .	1.1	7
123	An MRI-Compatible Robot for Intracerebral Hemorrhage Removal. , 2017, , .		7
124	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
125	Ground-state crystal structures of superconducting Nb3Al and the phase transformation under high pressures. Journal of Applied Physics, 2018, 124, 173902.	1.1	7
126	Delocalized Carriers and the Electrical Transport Properties of n-Type GeSe Crystals. ACS Applied Energy Materials, 2019, 2, 3703-3707.	2.5	7

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127	Dynamic disorder phonon scattering mediated by Cu atomic hopping and diffusion in Cu3SbSe3. Npj Computational Materials, 2020, 6, .	3.5	7
128	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
129	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:mi>La</mml:mi><mml:mi><mm from first-principles calculations. Physical Review B, 2020, 102, .	1.7	7
130	Anomalous transverse optical phonons in SnTe and PbTe. Physical Review B, 2022, 105, .	1.1	7
131	Cardiovascular Catheter With an Expandable Origami Structure. Journal of Medical Devices, Transactions of the ASME, 2017, 11, .	0.4	6
132	Closed Loop Control of an MR-Conditional Robot with Wireless Tracking Coil Feedback. Annals of Biomedical Engineering, 2019, 47, 2322-2333.	1.3	6
133	Band engineering and hybridization of competing arsenene allotropes: a computational study. Physical Chemistry Chemical Physics, 2019, 21, 24499-24505.	1.3	6
134	MRI-Compatible Soft Robotic Sensing Pad for Head Motion Detection. IEEE Robotics and Automation Letters, 2022, 7, 3632-3639.	3.3	6
135	First principles investigation of Be3X2 (Xâ€¯=â€¯N, P, As) and their alloys for solar cell applications. Journal of Alloys and Compounds, 2019, 795, 385-390.	2.8	5
136	Disturbance-Observer-Based Fuzzy Control for a Robot Manipulator Using an EMG-Driven Neuromusculoskeletal Model. Complexity, 2020, 2020, 1-10.	0.9	5
137	Thermoelectric properties of p-type polycrystalline Bi0.8Sb0.8In0.4Se3. Applied Physics Letters, 2021, 118, .	1.5	5
138	Anharmonic lattice dynamics of SnS across phase transition: A study using high-dimensional neural network potential. Applied Physics Letters, 2021, 119, .	1.5	5
139	MR-Guided Tissue Puncture with On-Line Imaging for High-Resolution Theranostics. , 2020, , .		5
140	Design of a 6-DoF Parallel Robotic Platform for MRI Applications. Journal of Medical Robotics Research, 2022, 07, .	1.0	5
141	Augmented Reality for Improving Catheterization in Magnetic Resonance Imaging-Guided Cardiac Electrophysiology Therapy1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.4	4
142	Robot for Magnetic Resonance Imaging Guided Focal Prostate Laser Ablation1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	4
143	Origin of the strain glass transition in Ti50(Ni50â^'ÂD) alloys. Journal of Alloys and Compounds, 2016, 678, 325-328.	2.8	4
144	Mechanical failure of graphene and the anharmonic phonon coupling mechanisms. Carbon, 2018, 126, 404-409.	5.4	4

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145	Unveiling a Novel, Cation-Rich Compound in a High-Pressure Pbâ€“Te Binary System. ACS Central Science, 2019, 5, 683-687.	5.3	4
146	Shear deformation behavior of the austenitic Î£3{1Â1Â2} twin boundary in NiTi shape memory alloy: An atomistic study. Applied Surface Science, 2020, 509, 145318.	3.1	4
147	Stronger three-phonon interactions revealed by molecular dynamics in materials with restricted phase space. Journal of Applied Physics, 2021, 130, .	1.1	4
148	Design of a 6 DoF Parallel Robot for MRI-guided Interventions. , 2021, , .		4
149	Minimally Invasive Intracerebral Hemorrhage Evacuation: A review. Annals of Biomedical Engineering, 2022, 50, 365-386.	1.3	4
150	GPU-based proximity query processing on unstructured triangular mesh model. , 2015, , .		3
151	Magnetic Resonance Imaging Compatible Pneumatic Stepper Motor With Geneva Drive1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	3
152	Follow-the-Leader Deployment of Steerable Needles Using a Magnetic Resonance-Compatible Robot With Stepper Actuators1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	3
153	Magnetic Resonance Conditional Microinjector. Journal of Imaging, 2019, 5, 4.	1.7	3
154	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
155	Optimization of the Intrinsic Electrical and Thermal Transport Properties of Sb₂Si₂Te₆ via Tensile Strain: A First-Principles Study. ACS Applied Energy Materials, 2021, 4, 12285-12289.	2.5	3
156	Dynamic Modeling and Characterization of the Core- XyCartesian Motion System. , 2018, , .		2
157	Pressure-induced electrides and metallic phases in the Yâ€“Cl system. Journal of Physics Condensed Matter, 2021, 33, 215401.	0.7	2
158	Minimal artifact actively shimmed metallic needles in MRI. Magnetic Resonance in Medicine, 2022, 87, 541-550.	1.9	2
159	Pressure-induced metalâ€“insulator transition in oxygen-deficient LiNbO3-type ferroelectrics. Journal of Physics Condensed Matter, 2022, 34, 025501.	0.7	2
160	Role of long-range interaction on the electrical transport and electronâ€“phonon scattering in thermoelectric Mg₂Si. Applied Physics Letters, 2022, 120, 263901.	1.5	2
161	Pressure-induced Ge₂Se₃and Ge₃Se₄crystals with low superconducting transition temperatures. Physical Chemistry Chemical Physics, 2019, 21, 15417-15421.	1.3	1
162	Negative linear compressibility and unusual dynamic behavior of NaB3. Physical Review Materials, 2021, 5, .	0.9	1

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163	Pressure-Enriched Chemistry of Pt: Prediction and Synthesis of Dense Sodium Platinides. Journal of Physical Chemistry C, 2021, 125, 11791-11798.	1.5	1
164	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
165	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
166	Modulation of Electrical and Thermal Transports through Lattice Distortion in BaTi_{1â€“x}Nb _x O₃ Solid Solutions. Nanotechnology, 0, , .	1.3	1
167	The TMS 2017 146th Annual Meeting and Exhibition. Powder Diffraction, 2017, 32, 217-218.	0.4	0
168	Guest Editorial: Integrating sensor fusion and perception for humanâ€“robot interaction. Cognitive Computation and Systems, 2021, 3, 183-186.	0.8	0
169	Pressure and doping effects on the structural stability of thermoelectric BaAg₂Te₂. Journal of Physics Condensed Matter, 2022, 34, 065401.	0.7	0