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#	Paper	IF	Citations
226	Heat conductivity in graphene and related materials: A time-domain modal analysis. 2015 , 92,		29
225	Enhancing of optic phonon contribution in hydrodynamic phonon transport. <i>Journal of Applied Physics</i> , 2015 , 118, 134305	2.5	8
224	Non-Fourier Heat Transfer with Phonons and Electrons in a Circular Thin Layer Surrounding a Hot Nanodevice. 2015 , 17, 5157-5170		8
223	Effective phonon mean-free path and slip heat flow in rarefied phonon hydrodynamics. 2015 , 379, 2652	2-2656	9
222	Two-dimensional phonon hydrodynamics in narrow strips. 2015 , 471, 20150376		20
221	On the importance of collective excitations for thermal transport in graphene. 2015 , 106, 193104		20
220	Phonon hydrodynamics and its applications in nanoscale heat transport. 2015 , 595, 1-44		129
219	Nobel Prize: Complexity from Atoms to Atmospheres. 2016 , 9,		
218	Phonon wave propagation in ballistic-diffusive regime. <i>Journal of Applied Physics</i> , 2016 , 119, 124301	2.5	17
217	Phonon thermal properties of graphene from molecular dynamics using different potentials. 2016 , 145, 134705		37
216	Characteristic length of phonon transport within periodic nanoporous thin films and two-dimensional materials. <i>Journal of Applied Physics</i> , 2016 , 120, 065101	2.5	20
215	Heat transport in low-dimensional materials: A review and perspective. 2016 , 6, 113-121		30
214	Hydrogenation of Penta-Graphene Leads to Unexpected Large Improvement in Thermal Conductivity. 2016 , 16, 3925-35		109
213	Mode-detailed analysis of transmission based directly on Green functions. 2016, 89, 1		1
212	First Principles Peierls-Boltzmann Phonon Thermal Transport: A Topical Review. 2016 , 20, 67-84		61
211	Length divergence of the lattice thermal conductivity in suspended graphene nanoribbons. 2016 , 93,		32
210	Thermal Transport in Crystals as a Kinetic Theory of Relaxons. 2016 , 6,		53

(2017-2016)

209	Comparative study of phonon spectrum and thermal expansion of graphene, silicene, germanene, and blue phosphorene. 2016 , 94,	61
208	The Electronic Thermal Conductivity of Graphene. 2016 , 16, 2439-43	92
207	First-principles calculations of thermal, electrical, and thermoelectric transport properties of semiconductors. 2016 , 31, 043001	42
206	Nonequilibrium Thermodynamics and Heat Transport at Nanoscale. 2016 , 1-30	
205	Thermal transport in nanocrystalline graphene investigated by approach-to-equilibrium molecular dynamics simulations. 2016 , 96, 429-438	26
204	Understanding of flux-limited behaviors of heat transport in nonlinear regime. 2016 , 380, 452-457	9
203	The impact of hydrogenation on the thermal transport of silicene. 2017 , 4, 025002	15
202	Nonmonotonic Diameter Dependence of Thermal Conductivity of Extremely Thin Si Nanowires: Competition between Hydrodynamic Phonon Flow and Boundary Scattering. 2017 , 17, 1269-1276	45
201	Finite speed heat transport in a quantum spin chain after quenched local cooling. 2017 , 50, 145302	
200	Ballistic thermal wave propagation along nanowires modeled using phonon Monte Carlo simulations. 2017 , 117, 609-616	26
199	Hexagonal boron nitride: a promising substrate for graphene with high heat dissipation. 2017 , 28, 225704	54
198	Developing heat conduction pathways through short polymer chains in a hydrogen bonded polymer system. 2017 , 148, 97-105	32
197	Thermal Transport in Supported Graphene: Substrate Effects on Collective Excitations. 2017, 7,	8
196	Giant reduction in thermal conductivity of extended type-I silicon clathrates and prominent thermal effect of 6d guest Wyckoff positions. 2017 , 5, 10578-10588	13
195	Hydrodynamic phonon drift and second sound in a (20,20) single-wall carbon nanotube. 2017 , 95,	33
194	Nonlocal Effects and Slip Heat Flow in Nanolayers. 2017 , 7, 9568	8
193	Sound waves and flexural mode dynamics in two-dimensional crystals. 2017, 96,	6
192	Understanding Divergent Thermal Conductivity in Single Polythiophene Chains Using Green-Kubo Modal Analysis and Sonification. 2017 , 121, 5586-5596	8

191	First principles kinetic-collective thermal conductivity of semiconductors. 2017, 95,		44
190	Effect of the accuracy of interatomic force constants on the prediction of lattice thermal conductivity. 2017 , 138, 368-376		9
189	Resonance phonon approach to phonon relaxation time and mean free path in one-dimensional nonlinear lattices. <i>Physical Review E</i> , 2017 , 95, 042138	2.4	5
188	Phonon coupling and transport in individual polyethylene chains: a comparison study with the bulk crystal. 2017 , 9, 18022-18031		42
187	Heat transport in two-dimensional materials by directly solving the phonon Boltzmann equation under Callaway's dual relaxation model. 2017 , 96,		39
186	Theoretical prediction of thermal transport in BC 2 N monolayer. 2017 , 38, 249-256		32
185	Boltzmann Transport in Nanostructures as a Friction Effect. 2017 , 17, 4675-4682		30
184	Thermal conductivity decomposition in two-dimensional materials: Application to graphene. 2017 , 95,		78
183	Encapsulated nanowires: Boosting electronic transport in carbon nanotubes. 2017, 95,		17
182	Cross-plane heat conduction in nanoporous silicon thin films by phonon Boltzmann transport equation and Monte Carlo simulations. 2017 , 111, 1401-1408		32
181	Temperature and Thickness Dependences of the Anisotropic In-Plane Thermal Conductivity of Black Phosphorus. 2017 , 29, 1603756		75
180	Hydrodynamic thermal transport in suspended graphene ribbons. 2017,		
179	Calculating lattice thermal conductivity: a synopsis. 2018 , 93, 043002		26
178	Collective thermal transport in pure and alloy semiconductors. 2018 , 20, 6805-6810		O
177	Two-Dimensional Materials for Thermal Management Applications. 2018 , 2, 442-463		190
176	Hydrodynamic Heat Transport Regime in Bismuth: A Theoretical Viewpoint. 2018 , 120, 075901		15
175	Phonon hydrodynamics for nanoscale heat transport at ordinary temperatures. 2018, 97,		41
174	Bond saturation significantly enhances thermal energy transport in two-dimensional pentagonal materials. 2018 , 45, 1-9		12

(2018-2018)

173	Four-phonon scattering reduces intrinsic thermal conductivity of graphene and the contributions from flexural phonons. 2018 , 97,	76
172	Ab initio phonon point defect scattering and thermal transport in graphene. 2018, 97,	49
171	Role of hydrodynamic viscosity on phonon transport in suspended graphene. 2018, 97,	22
170	Graphene Helicoid: Distinct Properties Promote Application of Graphene Related Materials in Thermal Management. 2018 , 122, 7605-7612	18
169	Thermal Transport and Phonon Hydrodynamics in Strontium Titanate. 2018, 120, 125901	63
168	Reflection and refraction of a thermal wave at an ideal interface. 2018 , 116, 314-328	10
167	Phonon Hydrodynamic Heat Conduction and Knudsen Minimum in Graphite. 2018, 18, 638-649	54
166	Manipulating Thermal Conductance of Supported Graphene via Surface Hydroxylation of Substrates. 2018 , 122, 27689-27695	4
165	Colloquium: Phononic thermal properties of two-dimensional materials. 2018, 90,	141
164	Umklapp scattering is not necessarily resistive. 2018 , 98,	9
163	Survey of ab initio phonon thermal transport. 2018 , 7, 106-120	66
162	Infrared reflectance, transmittance, and emittance spectra of MgO from first principles. 2018, 98,	6
161	Thermal Transport: Overview. 2018 , 1-11	2
160	On the Kinetic Theory of Thermal Transport in Crystals. 2018 , 1-42	
159	Ballistic flow of two-dimensional interacting electrons. 2018 , 98,	16
158	Nonequilibrium thermodynamics of phonon hydrodynamic model for nanoscale heat transport. 2018 , 98,	14
157	Theoretical and Experimental Methods for Determining the Thermal Conductivity of Nanostructures. 2018 , 11-40	
156	Perspectives on Thermoelectricity in Layered and 2D Materials. 2018 , 4, 1800248	47

155	Lone-pair electrons induced anomalous enhancement of thermal transport in strained planar two-dimensional materials. 2018 , 50, 425-430		32
154	Effective thermal conductivity of rectangular nanowires based on phonon hydrodynamics. 2018 , 126, 1120-1128		11
153	On the diversity in the thermal transport properties of graphene: A first-principles-benchmark study testing different exchange-correlation functionals. 2018 , 151, 153-159		24
152	Comparison of approximate solutions to the phonon Boltzmann transport equation with the relaxation time approximation: Spherical harmonics expansions and the discrete ordinates method. <i>Journal of Applied Physics</i> , 2018 , 123, 174304	2.5	4
151	Thermal Transport. 2018 , 7-40		
150	Dynamical thermal conductivity of suspended graphene ribbons in the hydrodynamic regime. 2018 , 98,		9
149	Observation of Poiseuille flow of phonons in black phosphorus. 2018 , 4, eaat3374		32
148	Thermal Transport of Bulk Semiconductors in the KCM. 2018 , 75-100		
147	Revisit to the Impacts of Rattlers on Thermal Conductivity of Clathrates. 2018, 6,		12
146	A hybrid phonon Monte Carlo-diffusion method for ballistic-diffusive heat conduction in nano- and micro- structures. 2018 , 127, 1014-1022		18
145	Molecular dynamics study of relaxons in the Fermi-Pasta-Ulam-Imodel. 2018 , 97,		1
144	Perspective on ab initio phonon thermal transport. <i>Journal of Applied Physics</i> , 2019 , 126, 050902	2.5	42
143	Ab initio investigation of single-layer high thermal conductivity boron compounds. 2019, 100,		31
142	Nonlocal heat conduction in suspended graphene. 2019 , 383, 126017		4
141	Direct simulation of second sound in graphene by solving the phonon Boltzmann equation via a multiscale scheme. 2019 , 100,		11
140	Origins of significant reduction of lattice thermal conductivity in graphene allotropes. 2019 , 100,		5
139	Controlling thermal conductivity of two-dimensional materials via externally induced phonon-electron interaction. 2019 , 100,		13
138	Hall effect in a ballistic flow of two-dimensional interacting particles. 2019 , 100,		4

137	Giant thermal conductivity in diamane and the influence of horizontal reflection symmetry on phonon scattering. 2019 , 11, 4248-4257	34
136	Crossover of ballistic, hydrodynamic, and diffusive phonon transport in suspended graphene. 2019 , 99,	19
135	Bogoliubov waves and distant transport of magnon condensate at room temperature. <i>Nature Communications</i> , 2019 , 10, 2460	26
134	Deducing Phonon Scattering from Normal Mode Excitations. 2019 , 9, 7982	4
133	Indications of Phonon Hydrodynamics in Telescopic Silicon Nanowires. 2019 , 11,	5
132	Disorder-enabled hydrodynamics of charge and heat transport in monolayer graphene. 2019 , 6, 035024	11
131	Generalized heat equation and transitions between different heat-transport regimes in narrow stripes. 2019 , 98, 22-30	
130	Hydrogen-Bond Driven Self-Assembly of Two-Dimensional Supramolecular Melamine-Cyanuric Acid Crystals and Its Self-Alignment in Polymer Composites for Enhanced Thermal Conduction. 2019 , 1, 1291-1300	14
129	Nonresistive heat transport by collective phonon flow. 2019 , 364, 332-333	10
128	Four-Probe Measurement of Thermal Transport in Suspended Few-Layer Graphene With Polymer Residue. 2019 , 141,	1
127	Thermal conductivity and phonon hydrodynamics in transition metal dichalcogenides from first-principles. 2019 , 6, 035002	25
126	Heat-to-mechanical energy conversion in graphene: Manifestation of Umklapp enhancement with strain. <i>Journal of Applied Physics</i> , 2019 , 125, 125101	1
125	Influence of the composition gradient on the propagation of heat pulses in functionally graded nanomaterials. 2019 , 475, 20180499	1
124	Observation of second sound in graphite at temperatures above 100 K. 2019 , 364, 375-379	87
123	Phonon hydrodynamics, thermal conductivity, and second sound in two-dimensional crystals. 2019 , 99,	9
122	Optomechanical Measurement of Thermal Transport in Two-Dimensional MoSe Lattices. 2019 , 19, 3143-3150	21
121	Three mathematical representations and an improved ADI method for hyperbolic heat conduction. 2019 , 135, 974-984	15
120	Thermal Resistance by Transition Between Collective and Non-Collective Phonon Flows in Graphitic Materials. 2019 , 23, 247-258	6

119	Engineering molecular interaction in polymeric hybrids: Effect of thermal linker and polymer chain structure on thermal conduction. 2019 , 166, 509-515	21
118	Ultra-low lattice thermal conductivity of monolayer penta-silicene and penta-germanene. 2019 , 21, 26033-	260 <u>40</u>
117	Manipulating phonons at the nanoscale: Impurities and boundaries. 2019, 17, 1-7	7
116	Non equilibrium molecular dynamics simulation study of thermal conductivity in doped graphene nanoribbons. 2019 , 556, 1-5	5
115	Nonlocal and nonlinear contributions to the thermal and elastic high-frequency wave propagations at nanoscale. 2019 , 31, 807-821	4
114	Hydrodynamic Phonon Transport Perpendicular to Diffuse-Gray Boundaries. 2019 , 23, 25-35	10
113	The one-dimensional Stefan problem with non-Fourier heat conduction. 2020 , 150, 106210	5
112	Anomalous strain effect on the thermal conductivity of low-buckled two-dimensional silicene. 2021 , 8, nwaa220	4
111	Resonant Optomechanical Tension and Crumpling of 2D Crystals. 2020 , 7, 2547-2554	Ο
110	Remarkable Reduction of Interfacial Thermal Resistance in Nanophononic Heterostructures. 2020 , 30, 2004003	21
109	Simulating transient heat transfer in graphene at finite Knudsen number via the Boltzmann transport equation and molecular dynamics. 2020 , 102,	1
108	Time-Domain Investigations of Coherent Phonons in van der Waals Thin Films. 2020, 10,	13
107	Hydrodynamic phonon transport in bulk crystalline polymers. 2020 , 102,	8
106	Thermal Transport in Two-Dimensional Heterostructures. 2020 , 7,	4
105	Ultra-high lattice thermal conductivity and the effect of pressure in superhard hexagonal BC2N. 2020 , 8, 15705-15716	4
104	Thermal Wave in Phonon Hydrodynamic Regime by Phonon Monte Carlo Simulations. 2020 , 24, 94-122	10
103	Heat vortex in hydrodynamic phonon transport of two-dimensional materials. 2020, 10, 8272	9
102	Heat Conduction in Two-Dimensional Materials. 2020 , 41, 1	2

(2021-2020)

101 Delocalization of phonons and energy spectrum in disordered nonlinear systems. **2020**, 101,

100	Thermal transport of carbon nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 153002 1.8	50
99	Phonon scattering at kinks in suspended graphene. 2020 , 101,	3
98	Size-dependent phononic thermal transport in low-dimensional nanomaterials. 2020 , 860, 1-26	110
97	Analysis of Energy Transport Behavior and Geometric Effects in Graphene. 2020, 6,	
96	Highly Thermo-Conductive Three-Dimensional Graphene Aqueous Medium. 2020 , 12, 138	3
95	High thermal conductivity driven by the unusual phonon relaxation time platform in 2D monolayer boron arsenide 2020 , 10, 25305-25310	10
94	Ballistic Phonons in Ultrathin Nanowires. 2020 , 20, 2703-2709	17
93	Phonon hydrodynamics in frequency-domain thermoreflectance experiments. 2020 , 101,	15
92	Low temperature specific heat anomaly with boson peak in isotope-enriched boron carbides B4BC B10C. 2020 , 101, 106140	2
91	Phonon hydrodynamics and ultrahigh-room-temperature thermal conductivity in thin graphite. 2020 , 367, 309-312	50
90	Generalization of Fourier⊠ Law into Viscous Heat Equations. 2020 , 10,	16
89	Diameter-dependent thermal conductivity of ultrathin GaP nanowires: A molecular dynamics study. 2020 , 101,	6
88	Strongly anisotropic thermal conductivity in planar hexagonal borophene oxide sheet. 2020 , 384, 126457	3
87	Phononics of Graphene and Related Materials. 2020 , 14, 5170-5178	91
86	Phonon hydrodynamic transport and Knudsen minimum in thin graphite. 2021 , 389, 127076	2
85	Indirect electron-phonon interaction leading to significant reduction of thermal conductivity in graphene. 2021 , 18, 100315	4
84	Nonlocal and nonlinear effects in hyperbolic heat transfer in a two-temperature model. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2021 , 72, 1	5

83	Nonlocal heat conduction in silicon nanowires and carbon nanotubes. 2021 , 57, 843-852	3
82	Phonon transport in graphene based materials. 2021 , 23, 26030-26060	5
81	Advances in thermal conductivity for energy applications: a review. 2021 , 3, 012002	6
80	Room temperature second sound in cumulene. 2021 , 23, 15275-15281	2
79	Chapter 2:Surface Engineering of Boron Nitride Nanoplatelets for Thermal Conductivity Enhancement of Polymers. 2021 , 52-98	
78	Transforming heat transfer with thermal metamaterials and devices. 2021 , 6, 488-507	68
77	Phonon-engineered extreme thermal conductivity materials. 2021 , 20, 1188-1202	56
76	Thermal oscillations, second sound and thermal resonance in phonon hydrodynamics. 2021, 477,	3
75	Derivation of a hydrodynamic heat equation from the phonon Boltzmann equation for general semiconductors. 2021 , 103,	9
74	Phonon vortex dynamics in graphene ribbon by solving Boltzmann transport equation with ab initio scattering rates. 2021 , 169, 120981	4
73	Impact of Electron-Phonon Interaction on Thermal Transport: A Review. 2021 , 25, 73-90	7
72	Significantly Enhanced Thermoelectric Performance of Graphene through Atomic-Scale Defect Engineering via Mobile Hot-Wire Chemical Vapor Deposition Systems. 2021 , 13, 24304-24313	3
71	Heat current flows across an interface in two-dimensional lattices. <i>Physical Review E</i> , 2021 , 103, 052141 _{2.4}	
70	Observation of second sound in a rapidly varying temperature field in Ge. 2021 , 7,	8
69	Overshooting phenomena of heat conduction in suspended graphene. 2021 , 404, 127402	2
68	Strain-induced band modulation of thermal phonons in carbon nanotubes. 2021 , 104,	2
67	Impact of dimensional crossover on phonon transport in van der Waals materials: A case study of graphite and graphene. 2021 , 104,	2
66	A General and Predictive Understanding of Thermal Transport from 1D- and 2D-Confined Nanostructures: Theory and Experiment. 2021 , 15, 13019-13030	5

(2020-2021)

65	A perspective on the hydrodynamic phonon transport in two-dimensional materials. <i>Journal of Applied Physics</i> , 2021 , 130, 010902	6
64	Non-Fourier phonon heat conduction at the microscale and nanoscale. 2021 , 3, 555-569	14
63	Size effect on phonon hydrodynamics in graphite microstructures and nanostructures. 2021, 104,	2
62	Transient Hydrodynamic Lattice Cooling by Picosecond Laser Irradiation of Graphite. 2021 , 127, 085901	4
61	Heat vortices of ballistic and hydrodynamic phonon transport in two-dimensional materials. 2021 , 176, 121282	2
60	Directional thermal channeling: A phenomenon triggered by tight packing of heat sources. 2021 , 118,	3
59	A transient heat conduction phenomenon to distinguish the hydrodynamic and (quasi) ballistic phonon transport. 2021 , 181, 121847	О
58	Lattice Boltzmann scheme for hydrodynamic equation of phonon transport. 2022 , 171, 107178	2
57	Hexagonal Boron Nitride L raphene Heterostructures with Enhanced Interfacial Thermal Conductance for Thermal Management Applications. 2021 , 4, 1951-1958	1
56	Lattice thermal conductivity of 🛘 2 and 🕒 borophene. 2020 , 29, 126503	7
55	Temperonic Crystal: A Superlattice for Temperature Waves in Graphene. 2020 , 125, 265901	18
54	Transport waves as crystal excitations. 2017 , 1,	14
53	Emergence of hydrodynamic heat transport in semiconductors at the nanoscale. 2018, 2,	27
52	Recent progresses of thermal conduction in two-dimensional materials. 2020 , 69, 196602	1
51	Weakly Nonlocal and Nonlinear Heat Transport. 2016 , 109-132	
50	Introduction. 2018, 1-5	
49	Phonon Spectrum and Transient Regimes in the KCM. 2018 , 117-135	
48	On the Kinetic Theory of Thermal Transport in Crystals. 2020 , 767-808	

47 Modeling heat transport in nanocomposites through multiple length scales. **2020**, 127-153

46	Thermal Transport: Overview. 2020 , 723-733		
45	Phonon Transport and Heat Flow. 379-449		
44	Thermal dynamics and electronic temperature waves in layered correlated materials. <i>Nature Communications</i> , 2021 , 12, 6904	17.4	1
43	Descriptors of intrinsic hydrodynamic thermal transport: screening a phonon database in a machine learning approach <i>Journal of Physics Condensed Matter</i> , 2022 ,	1.8	O
42	Observation of second sound in graphite over 200 K <i>Nature Communications</i> , 2022 , 13, 285	17.4	3
41	Graded thermal conductivity in 2D and 3D homogeneous hotspot systems. 2022 , 22, 100605		4
40	Effect of inflow boundary conditions on phonon transport in suspended graphene. 2022 , 428, 127944		Ο
39	Interfacial thermal resistance in phonon hydrodynamic heat conduction. <i>Journal of Applied Physics</i> , 2022 , 131, 064302	2.5	1
38	Green's functions of the Boltzmann transport equation with the full scattering matrix for phonon nanoscale transport beyond the relaxation-time approximation. 2021 , 104,		1
37	Reexamination of hydrodynamic phonon transport in thin graphite. <i>Journal of Applied Physics</i> , 2022 , 131, 075104	2.5	0
36	Thermal transport properties and some hydrodynamic-like behavior in three-dimensional topological semimetal ZrTe5. 2022 , 105,		
35	Four-Phonon Scattering Effect and Two-Channel Thermal Transport in Two-Dimensional Paraelectric SnSe 2022 ,		1
34	Hydrodynamically enhanced thermal transport due to strong interlayer interactions: A case study of strained bilayer graphene. 2022 , 105,		2
33	Hydrodynamic thermal transport in silicon at temperatures ranging from 100 to 300 K. 2022 , 105,		0
32	Characterizing microscale energy transport in materials with transient grating spectroscopy. Journal of Applied Physics, 2021, 130, 231101	2.5	2
31	Ab initio phonon transport across grain boundaries in graphene using machine learning based on small dataset. 2022 , 6,		
30	One-dimensional van der Waals quantum materials. 2022 ,		8

29	Unified theory of second sound in two-dimensional materials. 2022 , 105,		1
28	Modeling of second sound in carbon nanostructures. 2022 , 105,		O
27	Ultrahigh Electron Thermal Conductivity in T-Graphene, Biphenylene, and Net-Graphene. 2200657		4
26	Phonon transport in the gigahertz to terahertz range: Confinement, topology, and second sound. <i>Journal of Applied Physics</i> , 2022 , 131, 180901	2.5	1
25	Phonon hydrodynamics in crystalline materials Journal of Physics Condensed Matter, 2022,	1.8	1
24	Giant Manipulation of Phonon Hydrodynamics in Ferroelectric Bilayer Boron Nitride at Room Temperature and Beyond. <i>ACS Applied Energy Materials</i> ,	6.1	O
23	Heat transfer at nanoscale and boundary conditions. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2022 , 73,	1.6	O
22	Nonmonotonic heat dissipation phenomenon in close-packed hotspot systems. <i>Physical Review E</i> , 2022 , 106,	2.4	
21	A fast-converging scheme for the phonon Boltzmann equation with dual relaxation times. <i>Journal of Computational Physics</i> , 2022 , 467, 111436	4.1	1
20	Analysis of ballistic transport and resonance in the <code>HFermi-Pasta-Ulam-Tsingou</code> model. 2022 , 106,		O
19	BTE-Barna: An extension of almaBTE for thermal simulation of devices based on 2D materials. 2022 , 108504		
18	How Hydrodynamic Phonon Transport Determines the Convergence of Thermal Conductivity in Two-Dimensional Materials. 2022 , 12, 2854		1
17	On the emergence of heat waves in the transient thermal grating geometry. 2022 , 132, 085103		
16	Softened sp28p3 bonding network leads to strong anharmonicity and weak hydrodynamics in graphene+. 2022 , 106,		2
15	Mapping phonon hydrodynamic strength in micrometer-scale graphite structures. 2022 , 15, 105001		O
14	Hydrodynamic heat transport in dielectric crystals in the collective limit and the drifting/driftless velocity conundrum. 2022 , 106,		O
13	Emerging theory and phenomena in thermal conduction: A selective review. 2022, 65,		4
12	Heat flow wave in suspended graphene. 2022 , 478,		O

11	Phonon thermal transport and its tunability in GaN for near-junction thermal management of electronics: A review. 2023 , 200, 123497	O
10	Efficient modulation of thermal transport in two-dimensional materials for thermal management in device applications.	O
9	Lock-in Thermography Using Diamond Quantum Sensors. 2023 , 92,	O
8	Isotope doping-induced crossover shift in the thermal conductivity of thin silicon nanowires. 2023 , 35, 085702	O
7	Strong strain-dependent phonon hydrodynamic window in bilayer graphene. 2022 , 121, 252202	2
6	Modeling phonons in nanomaterials. 2023 , 125-149	O
5	Non-Fourier heat transport in nanosystems. 2023 , 46, 105-161	O
4	Universal Behavior of Highly Confined Heat Flow in Semiconductor Nanosystems: From Nanomeshes to Metalattices. 2023 , 23, 2129-2136	O
3	A pre-time-zero spatiotemporal microscopy technique for the ultrasensitive determination of the thermal diffusivity of thin films. 2023 , 94, 034903	O
2	Extreme mechanical tunability in suspended MoS2 resonator controlled by Joule heating. 2023, 7,	O
1	Observation of phonon Poiseuille flow in isotopically purified graphite ribbons. 2023, 14,	O