Qiye Zheng

List of Publications by Year
in descending order

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50	13,736	101543	189892
papers	citations	36	50
		h-index	g-index

50	50	50	12127
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lower limit to the thermal conductivity of disordered crystals. Physical Review B, 1992, 46, 6131-6140.	3.2	2,023
2	Thermal conductivity measurement from 30 to 750 K: the 3Ï‰ method. Review of Scientific Instruments, 1990, 61, 802-808.	1.3	1,660
3	Nanoscale thermal transport. II. 2003â€“2012. Applied Physics Reviews, 2014, 1, 011305.	11.3	1,277
4	Analysis of heat flow in layered structures for time-domain thermoreflectance. Review of Scientific Instruments, 2004, 75, 5119-5122.	1.3	1,220
5	Ultralow Thermal Conductivity in Disordered, Layered WSe2 Crystals. Science, 2007, 315, 351-353.	12.6	754
6	Thermal conductivity of amorphous solids above the plateau. Physical Review B, 1987, 35, 4067-4073.	3.2	694
7	Thermal conductivity of Siâ€“Ge superlattices. Applied Physics Letters, 1997, 70, 2957-2959.	3.3	657
8	Effects of chemical bonding on heat transport across interfaces. Nature Materials, 2012, 11, 502-506.	27.5	560
9	Thermal conductance of epitaxial interfaces. Physical Review B, 2003, 67, .	3.2	403
10	Ultrafast Flash Thermal Conductance of Molecular Chains. Science, 2007, 317, 787-790.	12.6	401
11	Heat Conduction across Monolayer and Few-Layer Graphenes. Nano Letters, 2010, 10, 4363-4368.	9.1	354
12	High thermal conductivity in cubic boron arsenide crystals. Science, 2018, 361, 579-581.	12.6	347
13	Thermal conductivity of thin films: Measurements and understanding. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 1259-1266.	2.1	270
14	Thermal Conductivity of High-Modulus Polymer Fibers. Macromolecules, 2013, 46, 4937-4943.	4.8	234
15	Anisotropic Thermal Conductivity of Exfoliated Black Phosphorus. Advanced Materials, 2015, 27, 8017-8022.	21.0	221
16	Measurement of the anisotropic thermal conductivity of molybdenum disulfide by the time-resolved magneto-optic Kerr effect. Journal of Applied Physics, 2014, 116, .	2.5	210
17	Thermal Conductivity, Heat Capacity, and Elastic Constants of Water-Soluble Polymers and Polymer Blends. Macromolecules, 2016, 49, 972-978.	4.8	201
18	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. Science, 2020, 367, 555-559.	12.6	177

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19	Two-tint pump-probe measurements using a femtosecond laser oscillator and sharp-edged optical filters. Review of Scientific Instruments, 2008, 79, 114901.	1.3	173
20	Structural and electronic properties of bilayer and trilayer graphdiyne. Nanoscale, 2012, 4, 3990.	5.6	156
21	Thermal conductivity imaging at micrometre-scale resolution for combinatorial studies of materials. Nature Materials, 2004, 3, 298-301.	27.5	148
22	Electrochemically tunable thermal conductivity of lithium cobalt oxide. Nature Communications, 2014, 5, 4035.	12.8	137
23	Tuning thermal conductivity in molybdenum disulfide by electrochemical intercalation. Nature Communications, 2016, 7, 13211.	12.8	136
24	High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. Nature Communications, 2018, 9, 2578.	12.8	121
25	Elastic properties of several amorphous solids and disordered crystals below 100 K. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1996, 101, 235-245.	1.1	114
26	Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. Optics Express, 2012, 20, 28829.	3.4	109
27	Structural, Electronic, and Optical Properties of Bulk Graphdiyne. Journal of Physical Chemistry C, 2013, 117, 13072-13079.	3.1	101
28	Flexible and Stretchable 3Ï‰ Sensors for Thermal Characterization of Human Skin. Advanced Functional Materials, 2017, 27, 1701282.	14.9	90
29	Graphene Sandwiched Mesostructured Liâ€ion Battery Electrodes. Advanced Materials, 2016, 28, 7696-7702.	21.0	86
30	Invited Article: Micron resolution spatially resolved measurement of heat capacity using dual-frequency time-domain thermoreflectance. Review of Scientific Instruments, 2013, 84, 071301.	1.3	77
31	Thermal conductivity of GaN, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>GaN</mml:mi><mml:mprescripts /><mml:none /><mml:mn>71</mml:mn></mml:mmultiscripts></mml:math> , and SiC from 150 K to 850 K. Physical Review Materials, 2019, 3, .	2.4	74
32	High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. Advanced Functional Materials, 2018, 28, 1805116.	14.9	73
33	Electric-Field-Induced Energy Gap in Few-Layer Graphene. Journal of Physical Chemistry C, 2011, 115, 9458-9464.	3.1	72
34	Analysis and improvement of the hot disk transient plane source method for low thermal conductivity materials. International Journal of Heat and Mass Transfer, 2020, 151, 119331.	4.8	69
35	High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. Nano Letters, 2016, 16, 4501-4507.	9.1	62
36	Torsional oscillator for internal friction data at 100 kHz. Review of Scientific Instruments, 1989, 60, 2706-2710.	1.3	46

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37	Thermal Conductivity of Graphite Thin Films Grown by Low Temperature Chemical Vapor Deposition on Ni (111). Advanced Materials Interfaces, 2016, 3, 1600234.	3.7	35
38	Phonon and electron contributions to the thermal conductivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> epitaxial layers. Physical Review Materials, 2017, 1, .	2.4	34
39	Thermal transport in layer-by-layer assembled polycrystalline graphene films. Npj 2D Materials and Applications, 2019, 3, .	7.9	28
40	Advances in thermal conductivity for energy applications: a review. Progress in Energy, 2021, 3, 012002.	10.9	24
41	Parametric study of solid-solid translucent phase change materials in building windows. Applied Energy, 2021, 301, 117467.	10.1	24
42	Good Solidâ€State Electrolytes Have Low, Glassâ€Like Thermal Conductivity. Small, 2021, 17, e2101693.	10.0	23
43	High Contrast Thermal Conductivity Change in Niâ€“Mnâ€“In Heusler Alloys near Room Temperature. Advanced Engineering Materials, 2019, 21, 1801342.	3.5	22
44	An InGaN-Based Solar Cell Including Dual InGaN/GaN Multiple Quantum Wells. IEEE Photonics Technology Letters, 2016, 28, 2117-2120.	2.5	11
45	Properties of bulk scandium nitride crystals grown by physical vapor transport. Applied Physics Letters, 2020, 116, .	3.3	8
46	Thermal transport through the magnetic martensitic transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>M</mml:mi><mml:mi>Ge</mml:mi><mml:mi><mml:mrow><mm	2.4	7
47	Phâ€Lithiumâ€Ion Batteries: Graphene Sandwiched Mesostructured Liâ€Ion Battery Electrodes (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /O	21.0	4
48	Battery absorbs heat during charging uncovered by ultra-sensitive thermometry. Journal of Power Sources, 2022, 518, 230762.	7.8	4
49	Structured illumination with thermal imaging (SI-TI): A dynamically reconfigurable metrology for parallelized thermal transport characterization. Applied Physics Reviews, 2022, 9, .	11.3	3
50	Dendritic nanostructured FeS₂-based high stability and capacity Li-ion cathodes. RSC Advances, 2018, 8, 38745-38750.	3.6	2