Qiye Zheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50 papers	11,073 citations	35 h-index	50 g-index
50 ext. papers	12,515 ext. citations	10.7 avg, IF	6.46 L-index

#	Paper	IF	Citations
50	Battery absorbs heat during charging uncovered by ultra-sensitive thermometry. *Journal of Power Sources*, **2022**, 518, 230762	8.9	1
49	Structured illumination with thermal imaging (SI-TI): A dynamically reconfigurable metrology for parallelized thermal transport characterization. *Applied Physics Reviews*, **2022**, 9, 021411	17.3	0
48	Good Solid-State Electrolytes Have Low, Glass-Like Thermal Conductivity. *Small*, **2021**, 17, e2101693	11	8
47	Advances in thermal conductivity for energy applications: a review. *Progress in Energy*, **2021**, 3, 012002	7.7	6
46	Parametric study of solid-solid translucent phase change materials in building windows. *Applied Energy*, **2021**, 301, 117467	10.7	6
45	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	4.9	30
44	Properties of bulk scandium nitride crystals grown by physical vapor transport. *Applied Physics Letters*, **2020**, 116, 132103	3.4	6
43	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. *Science*, **2020**, 367, 555-559	33.3	90
42	High Contrast Thermal Conductivity Change in Ni□Mn□ Heusler Alloys near Room Temperature. *Advanced Engineering Materials*, **2019**, 21, 1801342	3.5	12
41	Thermal transport in layer-by-layer assembled polycrystalline graphene films. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	21
40	Thermal conductivity of GaN, GaN71, and SiC from 150 K to 850 K. *Physical Review Materials*, **2019**, 3,	3.2	43
39	Thermal transport through the magnetic martensitic transition in MnxMGe(M=Co,Ni). *Physical Review Materials*, **2018**, 2,	3.2	3
38	Dendritic nanostructured FeS-based high stability and capacity Li-ion cathodes.. *RSC Advances*, **2018**, 8, 38745-38750	3.7	2
37	High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. *Advanced Functional Materials*, **2018**, 28, 1805116	15.6	51
36	High thermal conductivity in cubic boron arsenide crystals. *Science*, **2018**, 361, 579-581	33.3	220
35	High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. *Nature Communications*, **2018**, 9, 2578	17.4	85
34	Flexible and Stretchable 3□Sensors for Thermal Characterization of Human Skin. *Advanced Functional Materials*, **2017**, 27, 1701282	15.6	71

33	Phonon and electron contributions to the thermal conductivity of VNx epitaxial layers. *Physical Review Materials*, **2017**, 1,	3.2	28
32	Lithium-Ion Batteries: Graphene Sandwiched Mesostructured Li-Ion Battery Electrodes (Adv. Mater. 35/2016). *Advanced Materials*, **2016**, 28, 7695-7695	24	3
31	Graphene Sandwiched Mesostructured Li-Ion Battery Electrodes. *Advanced Materials*, **2016**, 28, 7696-702	24	68
30	Tuning thermal conductivity in molybdenum disulfide by electrochemical intercalation. *Nature Communications*, **2016**, 7, 13211	17.4	101
29	An InGaN-Based Solar Cell Including Dual InGaN/GaN Multiple Quantum Wells. *IEEE Photonics Technology Letters*, **2016**, 28, 2117-2120	2.2	8
28	High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. *Nano Letters*, **2016**, 16, 4501-7	11.5	58
27	Thermal Conductivity, Heat Capacity, and Elastic Constants of Water-Soluble Polymers and Polymer Blends. *Macromolecules*, **2016**, 49, 972-978	5.5	156
26	Thermal Conductivity of Graphite Thin Films Grown by Low Temperature Chemical Vapor Deposition on Ni (111). *Advanced Materials Interfaces*, **2016**, 3, 1600234	4.6	24
25	Anisotropic Thermal Conductivity of Exfoliated Black Phosphorus. *Advanced Materials*, **2015**, 27, 8017-22	24	178
24	Nanoscale thermal transport. II. 2003–2012. *Applied Physics Reviews*, **2014**, 1, 011305	17.3	1050
23	Electrochemically tunable thermal conductivity of lithium cobalt oxide. *Nature Communications*, **2014**, 5, 4035	17.4	92
22	Measurement of the anisotropic thermal conductivity of molybdenum disulfide by the time-resolved magneto-optic Kerr effect. *Journal of Applied Physics*, **2014**, 116, 233107	2.5	173
21	Invited article: micron resolution spatially resolved measurement of heat capacity using dual-frequency time-domain thermoreflectance. *Review of Scientific Instruments*, **2013**, 84, 071301	1.7	60
20	Structural, Electronic, and Optical Properties of Bulk Graphdiyne. *Journal of Physical Chemistry C*, **2013**, 117, 13072-13079	3.8	84
19	Thermal Conductivity of High-Modulus Polymer Fibers. *Macromolecules*, **2013**, 46, 4937-4943	5.5	180
18	Effects of chemical bonding on heat transport across interfaces. *Nature Materials*, **2012**, 11, 502-6	27	458
17	Structural and electronic properties of bilayer and trilayer graphdiyne. *Nanoscale*, **2012**, 4, 3990-6	7.7	114
16	Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. *Optics Express*, **2012**, 20, 28829-38	3.3	81

15	Electric-Field-Induced Energy Gap in Few-Layer Graphene. *Journal of Physical Chemistry C*, **2011**, 115, 9458-9464	3.8	66
14	Heat conduction across monolayer and few-layer graphenes. *Nano Letters*, **2010**, 10, 4363-8	11.5	312
13	Two-tint pump-probe measurements using a femtosecond laser oscillator and sharp-edged optical filters. *Review of Scientific Instruments*, **2008**, 79, 114901	1.7	152
12	Ultrafast flash thermal conductance of molecular chains. *Science*, **2007**, 317, 787-90	33.3	352
11	Ultralow thermal conductivity in disordered, layered WSe2 crystals. *Science*, **2007**, 315, 351-3	33.3	646
10	Thermal conductivity imaging at micrometre-scale resolution for combinatorial studies of materials. *Nature Materials*, **2004**, 3, 298-301	27	132
9	Analysis of heat flow in layered structures for time-domain thermoreflectance. *Review of Scientific Instruments*, **2004**, 75, 5119-5122	1.7	987
8	Thermal conductance of epitaxial interfaces. *Physical Review B*, **2003**, 67,	3.3	355
7	Thermal conductivity of Si□Ge superlattices. *Applied Physics Letters*, **1997**, 70, 2957-2959	3.4	579
6	Elastic properties of several amorphous solids and disordered crystals below 100 K. *Zeitschrift F□ Physik B-Condensed Matter*, **1996**, 101, 235-245		106
5	Lower limit to the thermal conductivity of disordered crystals. *Physical Review B*, **1992**, 46, 6131-6140	3.3	1596
4	Thermal conductivity measurement from 30 to 750 K: the 3□method. *Review of Scientific Instruments*, **1990**, 61, 802-808	1.7	1344
3	Torsional oscillator for internal friction data at 100 kHz. *Review of Scientific Instruments*, **1989**, 60, 2706-2710	1.7	43
2	Thermal conductivity of thin films: Measurements and understanding. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1989**, 7, 1259-1266	2.9	245
1	Thermal conductivity of amorphous solids above the plateau. *Physical Review B*, **1987**, 35, 4067-4073	3.3	587