# Qiye Zheng

## List of Publications by Citations

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|---|---|---|---|
| 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 | Lower limit to the thermal conductivity of disordered crystals. *Physical Review B*, **1992**, 46, 6131-6140 | 3.3 | 1596 |
| 49 | Thermal conductivity measurement from 30 to 750 K: the 3ω method. *Review of Scientific Instruments*, **1990**, 61, 802-808 | 1.7 | 1344 |
| 48 | Nanoscale thermal transport. II. 2003–2012. *Applied Physics Reviews*, **2014**, 1, 011305 | 17.3 | 1050 |
| 47 | Analysis of heat flow in layered structures for time-domain thermoreflectance. *Review of Scientific Instruments*, **2004**, 75, 5119-5122 | 1.7 | 987 |
| 46 | Ultralow thermal conductivity in disordered, layered WSe2 crystals. *Science*, **2007**, 315, 351-3 | 33.3 | 646 |
| 45 | Thermal conductivity of amorphous solids above the plateau. *Physical Review B*, **1987**, 35, 4067-4073 | 3.3 | 587 |
| 44 | Thermal conductivity of Si/Ge superlattices. *Applied Physics Letters*, **1997**, 70, 2957-2959 | 3.4 | 579 |
| 43 | Effects of chemical bonding on heat transport across interfaces. *Nature Materials*, **2012**, 11, 502-6 | 27 | 458 |
| 42 | Thermal conductance of epitaxial interfaces. *Physical Review B*, **2003**, 67, | 3.3 | 355 |
| 41 | Ultrafast flash thermal conductance of molecular chains. *Science*, **2007**, 317, 787-90 | 33.3 | 352 |
| 40 | Heat conduction across monolayer and few-layer graphenes. *Nano Letters*, **2010**, 10, 4363-8 | 11.5 | 312 |
| 39 | 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 |
| 38 | High thermal conductivity in cubic boron arsenide crystals. *Science*, **2018**, 361, 579-581 | 33.3 | 220 |
| 37 | Thermal Conductivity of High-Modulus Polymer Fibers. *Macromolecules*, **2013**, 46, 4937-4943 | 5.5 | 180 |
| 36 | Anisotropic Thermal Conductivity of Exfoliated Black Phosphorus. *Advanced Materials*, **2015**, 27, 8017-8024 | | 178 |
| 35 | 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 |
| 34 | Thermal Conductivity, Heat Capacity, and Elastic Constants of Water-Soluble Polymers and Polymer Blends. *Macromolecules*, **2016**, 49, 972-978 | 5.5 | 156 |

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|---|---|---|---|
| 33 | 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 |
| 32 | Thermal conductivity imaging at micrometre-scale resolution for combinatorial studies of materials. *Nature Materials*, **2004**, 3, 298-301 | 27 | 132 |
| 31 | Structural and electronic properties of bilayer and trilayer graphdiyne. *Nanoscale*, **2012**, 4, 3990-6 | 7.7 | 114 |
| 30 | Elastic properties of several amorphous solids and disordered crystals below 100 K. *Zeitschrift Fü Physik B-Condensed Matter*, **1996**, 101, 235-245 | | 106 |
| 29 | Tuning thermal conductivity in molybdenum disulfide by electrochemical intercalation. *Nature Communications*, **2016**, 7, 13211 | 17.4 | 101 |
| 28 | Electrochemically tunable thermal conductivity of lithium cobalt oxide. *Nature Communications*, **2014**, 5, 4035 | 17.4 | 92 |
| 27 | Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. *Science*, **2020**, 367, 555-559 | 33.3 | 90 |
| 26 | High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. *Nature Communications*, **2018**, 9, 2578 | 17.4 | 85 |
| 25 | Structural, Electronic, and Optical Properties of Bulk Graphdiyne. *Journal of Physical Chemistry C*, **2013**, 117, 13072-13079 | 3.8 | 84 |
| 24 | Thermoreflectance of metal transducers for optical pump-probe studies of thermal properties. *Optics Express*, **2012**, 20, 28829-38 | 3.3 | 81 |
| 23 | Flexible and Stretchable 3 Sensors for Thermal Characterization of Human Skin. *Advanced Functional Materials*, **2017**, 27, 1701282 | 15.6 | 71 |
| 22 | Graphene Sandwiched Mesostructured Li-Ion Battery Electrodes. *Advanced Materials*, **2016**, 28, 7696-702 | 24 | 68 |
| 21 | Electric-Field-Induced Energy Gap in Few-Layer Graphene. *Journal of Physical Chemistry C*, **2011**, 115, 9458-9464 | 3.8 | 66 |
| 20 | 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 |
| 19 | High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. *Nano Letters*, **2016**, 16, 4501-7 | 11.5 | 58 |
| 18 | High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. *Advanced Functional Materials*, **2018**, 28, 1805116 | 15.6 | 51 |
| 17 | Torsional oscillator for internal friction data at 100 kHz. *Review of Scientific Instruments*, **1989**, 60, 2706-2710 | 1.7 | 43 |
| 16 | Thermal conductivity of GaN, GaN71, and SiC from 150 K to 850 K. *Physical Review Materials*, **2019**, 3, | 3.2 | 43 |

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| 15 | 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 |
| 14 | Phonon and electron contributions to the thermal conductivity of VNx epitaxial layers. *Physical Review Materials*, **2017**, 1, | 3.2 | 28 |
| 13 | 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 |
| 12 | Thermal transport in layer-by-layer assembled polycrystalline graphene films. *Npj 2D Materials and Applications*, **2019**, 3, | 8.8 | 21 |
| 11 | High Contrast Thermal Conductivity Change in Ni□Mn□ Heusler Alloys near Room Temperature. *Advanced Engineering Materials*, **2019**, 21, 1801342 | 3.5 | 12 |
| 10 | An InGaN-Based Solar Cell Including Dual InGaN/GaN Multiple Quantum Wells. *IEEE Photonics Technology Letters*, **2016**, 28, 2117-2120 | 2.2 | 8 |
| 9 | Good Solid-State Electrolytes Have Low, Glass-Like Thermal Conductivity. *Small*, **2021**, 17, e2101693 | 11 | 8 |
| 8 | Properties of bulk scandium nitride crystals grown by physical vapor transport. *Applied Physics Letters*, **2020**, 116, 132103 | 3.4 | 6 |
| 7 | Advances in thermal conductivity for energy applications: a review. *Progress in Energy*, **2021**, 3, 012002 | 7.7 | 6 |
| 6 | Parametric study of solid-solid translucent phase change materials in building windows. *Applied Energy*, **2021**, 301, 117467 | 10.7 | 6 |
| 5 | Lithium-Ion Batteries: Graphene Sandwiched Mesostructured Li-Ion Battery Electrodes (Adv. Mater. 35/2016). *Advanced Materials*, **2016**, 28, 7695-7695 | 24 | 3 |
| 4 | Thermal transport through the magnetic martensitic transition in MnxMGe(M=Co,Ni). *Physical Review Materials*, **2018**, 2, | 3.2 | 3 |
| 3 | Dendritic nanostructured FeS-based high stability and capacity Li-ion cathodes.. *RSC Advances*, **2018**, 8, 38745-38750 | 3.7 | 2 |
| 2 | Battery absorbs heat during charging uncovered by ultra-sensitive thermometry. *Journal of Power Sources*, **2022**, 518, 230762 | 8.9 | 1 |
| 1 | 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 |