

Xin Qian

List of Publications by Citations

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59
papers

3,902
citations

22
h-index

61
g-index

61
ext. papers

5,117
ext. citations

7.7
avg, IF

6.15
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 59 | Solid state theory. Quantum spin Hall effect in two-dimensional transition metal dichalcogenides. <i>Science</i> , 2014 , 346, 1344-7 | 33.3 | 1150 |
| 58 | Highly efficient solar vapour generation via hierarchically nanostructured gels. <i>Nature Nanotechnology</i> , 2018 , 13, 489-495 | 28.7 | 825 |
| 57 | Thermal conductivity of polymers and polymer nanocomposites. <i>Materials Science and Engineering Reports</i> , 2018 , 132, 1-22 | 30.9 | 318 |
| 56 | Measurement Techniques for Thermal Conductivity and Interfacial Thermal Conductance of Bulk and Thin Film Materials. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2016 , 138, | 2 | 228 |
| 55 | Giant thermopower of ionic gelatin near room temperature. <i>Science</i> , 2020 , 368, 1091-1098 | 33.3 | 168 |
| 54 | Tutorial: Time-domain thermoreflectance (TDTR) for thermal property characterization of bulk and thin film materials. <i>Journal of Applied Physics</i> , 2018 , 124, 161103 | 2.5 | 114 |
| 53 | Probing Anisotropic Thermal Conductivity of Transition Metal Dichalcogenides MX (M = Mo, W and X = S, Se) using Time-Domain Thermoreflectance. <i>Advanced Materials</i> , 2017 , 29, 1701068 | 24 | 107 |
| 52 | Lattice thermal conductivity of organic-inorganic hybrid perovskite CH ₃ NH ₃ PbI ₃ . <i>Applied Physics Letters</i> , 2016 , 108, 063902 | 3.4 | 84 |
| 51 | Time-domain thermoreflectance (TDTR) measurements of anisotropic thermal conductivity using a variable spot size approach. <i>Review of Scientific Instruments</i> , 2017 , 88, 074901 | 1.7 | 67 |
| 50 | Phonon-engineered extreme thermal conductivity materials. <i>Nature Materials</i> , 2021 , 20, 1188-1202 | 27 | 56 |
| 49 | Anisotropic Tuning of Graphite Thermal Conductivity by Lithium Intercalation. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4744-4750 | 6.4 | 50 |
| 48 | Anisotropic thermal conductivity of 4H and 6H silicon carbide measured using time-domain thermoreflectance. <i>Materials Today Physics</i> , 2017 , 3, 70-75 | 8 | 50 |
| 47 | Dielectric Mismatch Mediates Carrier Mobility in Organic-Intercalated Layered TiS ₂ . <i>Nano Letters</i> , 2015 , 15, 6302-8 | 11.5 | 49 |
| 46 | Three-dimensional anisotropic thermal conductivity tensor of single crystalline α -Ga ₂ O ₃ . <i>Applied Physics Letters</i> , 2018 , 113, 232105 | 3.4 | 49 |
| 45 | Anisotropic thermal transport in bulk hexagonal boron nitride. <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 39 |
| 44 | Crystallization, rheology and foam morphology of branched PLA prepared by novel type of chain extender. <i>Macromolecular Research</i> , 2015 , 23, 231-236 | 1.9 | 33 |
| 43 | Large nonreciprocal absorption and emission of radiation in type-I Weyl semimetals with time reversal symmetry breaking. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 32 |

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| 42 | Locust bean gum/gellan gum double-network hydrogels with superior self-healing and pH-driven shape-memory properties. <i>Soft Matter</i> , 2019 , 15, 6171-6179 | 3.6 | 27 |
| 41 | Konjac glucomannan/kappa carrageenan interpenetrating network hydrogels with enhanced mechanical strength and excellent self-healing capability. <i>Polymer</i> , 2019 , 184, 121913 | 3.9 | 24 |
| 40 | Intrinsic nonreciprocal reflection and violation of Kirchhoff's law of radiation in planar type-I magnetic Weyl semimetal surfaces. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 24 |
| 39 | Diffused Lattice Vibration and Ultralow Thermal Conductivity in the Binary Ln-Nb-O Oxide System. <i>Advanced Materials</i> , 2019 , 31, e1808222 | 24 | 23 |
| 38 | Thermal conductivity modeling using machine learning potentials: application to crystalline and amorphous silicon. <i>Materials Today Physics</i> , 2019 , 10, 100140 | 8 | 23 |
| 37 | Influence of nanoparticle size distribution on the thermal conductivity of particulate nanocomposites. <i>Europhysics Letters</i> , 2017 , 117, 24001 | 1.6 | 22 |
| 36 | Temperature effect on the phonon dispersion stability of zirconium by machine learning driven atomistic simulations. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 22 |
| 35 | Thermal conductivity modeling of hybrid organic-inorganic crystals and superlattices. <i>Nano Energy</i> , 2017 , 41, 394-407 | 17.1 | 21 |
| 34 | Anisotropic thermal transport in van der Waals layered alloys WSe ₂ (1-x)Te _{2x} . <i>Applied Physics Letters</i> , 2018 , 112, 241901 | 3.4 | 21 |
| 33 | Super-stretchable borophene. <i>Europhysics Letters</i> , 2016 , 116, 36001 | 1.6 | 19 |
| 32 | A new elliptical-beam method based on time-domain thermoreflectance (TDTR) to measure the in-plane anisotropic thermal conductivity and its comparison with the beam-offset method. <i>Review of Scientific Instruments</i> , 2018 , 89, 094902 | 1.7 | 19 |
| 31 | Fabrication of Polyethylene Superhydrophobic Surfaces by Stretching-Controlled Micromolding. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 295-300 | 3.9 | 18 |
| 30 | Favorable Redox Thermodynamics of SrTi _{0.5} Mn _{0.5} O ₃ in Solar Thermochemical Water Splitting. <i>Chemistry of Materials</i> , 2020 , 32, 9335-9346 | 9.6 | 18 |
| 29 | Imaging the Néel vector switching in the monolayer antiferromagnet MnPSe with strain-controlled Ising order. <i>Nature Nanotechnology</i> , 2021 , 16, 782-787 | 28.7 | 17 |
| 28 | Design of End-to-End Assembly of Side-Grafted Nanorods in a Homopolymer Matrix. <i>Macromolecules</i> , 2018 , 51, 4143-4157 | 5.5 | 16 |
| 27 | Accelerating GW calculations with optimal polarizability basis. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 527-536 | 1.3 | 14 |
| 26 | Accurate measurement of in-plane thermal conductivity of layered materials without metal film transducer using frequency domain thermoreflectance. <i>Review of Scientific Instruments</i> , 2020 , 91, 064903 | 3.7 | 13 |
| 25 | Anisotropic Thermal Transport in Organic-Inorganic Hybrid Crystal [ZnTe(en) _{0.5}]. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28300-28308 | 3.8 | 13 |

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| 24 | Ionic thermoelectric materials for near ambient temperature energy harvesting. <i>Applied Physics Letters</i> , 2021 , 118, 020501 | 3.4 | 13 |
| 23 | Sol-gel solvothermal route to synthesize anatase/brookite/rutile TiO ₂ nanocomposites with highly photocatalytic activity. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 85, 394-401 | 2.3 | 12 |
| 22 | Synthesis of carbon modified TiO ₂ photocatalysts with high photocatalytic activity by a facile calcinations assisted solvothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 10028-10034 | 2.1 | 11 |
| 21 | Preparation of konjac glucomannan-Borax hydrogels with good self-healing property and pH-responsive behavior. <i>Journal of Polymer Research</i> , 2019 , 26, 1 | 2.7 | 11 |
| 20 | Machine learning for predicting thermal transport properties of solids. <i>Materials Science and Engineering Reports</i> , 2021 , 146, 100642 | 30.9 | 11 |
| 19 | Nanoparticle Mobility within Permanently Cross-Linked Polymer Networks. <i>Macromolecules</i> , 2020 , 53, 4172-4184 | 5.5 | 8 |
| 18 | Photocatalytic Degradation of Dyes in Water Using TiO ₂ /Hydroxyapatite Composites. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1 | 2.6 | 8 |
| 17 | Poly(lactic acid)-thermoplastic poly(ether)urethane composites synergistically reinforced and toughened with short carbon fibers for three-dimensional printing. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46483 | 2.9 | 7 |
| 16 | A facile preparation of pH-temperature dual stimuli-responsive supramolecular hydrogel and its controllable drug release. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a | 2.9 | 7 |
| 15 | High-temperature phonon transport properties of SnSe from machine-learning interatomic potential. <i>Journal of Physics Condensed Matter</i> , 2021 , 33, | 1.8 | 6 |
| 14 | Enhanced strength and self-healing properties of CA-Mg ₂ /PVA IPN hydrogel used for shot-membrane waterproofing materials. <i>Journal of Polymer Research</i> , 2020 , 27, 1 | 2.7 | 5 |
| 13 | Toward Optimal Heat Transfer of 2D-3D Heterostructures van der Waals Binding Effects. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46055-46064 | 9.5 | 5 |
| 12 | Tunable thermo-responsive supramolecular hydrogel: design, characterization, and drug release. <i>Journal of Polymer Research</i> , 2015 , 22, 1 | 2.7 | 4 |
| 11 | Monitoring anharmonic phonon transport across interfaces in one-dimensional lattice chains. <i>Physical Review E</i> , 2020 , 101, 022133 | 2.4 | 4 |
| 10 | Radiative heat and momentum transfer from materials with broken symmetries: opinion. <i>Optical Materials Express</i> , 2021 , 11, 3125 | 2.6 | 4 |
| 9 | Tailoring the alignment of string-like nanoparticle assemblies in a functionalized polymer matrix via steady shear. <i>RSC Advances</i> , 2017 , 7, 8898-8907 | 3.7 | 3 |
| 8 | Confinement effect on thermopower of electrolytes. <i>Materials Today Physics</i> , 2022 , 23, 100627 | 8 | 2 |
| 7 | Thermal conductance of nanostructured interfaces from Monte Carlo simulations with ab initio-based phonon properties. <i>Journal of Applied Physics</i> , 2021 , 129, 215105 | 2.5 | 2 |

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| 6 | Thermally regenerative electrochemically cycled flow batteries with pH neutral electrolytes for harvesting low-grade heat. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22501-22514 | 3.6 | 2 |
| 5 | Correlations and incipient antiferromagnetic order within the linear Mn chains of metallic TiMnBi. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 1 |
| 4 | High-efficiency and magnetically separable nanocatalyst: Cyclodextrin modified core-shell hybrid magnetic nanoparticles. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2017 , 87, 45-51 | 1.7 | 1 |
| 3 | Significant suppression of phonon transport in polar semiconductors owing to electron-phonon-induced dipole coupling: An effect of breaking centrosymmetry. <i>Materials Today Physics</i> , 2022 , 22, 100598 | 8 | 1 |
| 2 | Thermal conductivity modeling on highly disordered crystalline $Y_{1-x}Nb_xO_{1.5+x}$: Beyond the phonon scenario. <i>Applied Physics Letters</i> , 2021 , 118, 073901 | 3.4 | 0 |
| 1 | The Vacancy Effect on Thermal Interface Resistance between Aluminum and Silicon by Molecular Dynamics. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1753, 7 | | |