

Dongyan Xu

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,722
citations

279701

23
h-index

289141

40
g-index

66
all docs

66
docs citations

66
times ranked

2846
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Tunable Rigidity of (Polymeric Core)â€“(Lipid Shell) Nanoparticles for Regulated Cellular Uptake. <i>Advanced Materials</i> , 2015, 27, 1402-1407. | 11.1 | 383 |
| 2 | High efficiency semimetal/semiconductor nanocomposite thermoelectric materials. <i>Journal of Applied Physics</i> , 2010, 108, . | 1.1 | 72 |
| 3 | On-chip counting the number and the percentage of CD4+ T lymphocytes. <i>Lab on A Chip</i> , 2008, 8, 309-315. | 3.1 | 71 |
| 4 | Electroosmotic Flow in Nanotubes with High Surface Charge Densities. <i>Nano Letters</i> , 2008, 8, 42-48. | 4.5 | 67 |
| 5 | Microfluidic differential resistive pulse sensors. <i>Electrophoresis</i> , 2008, 29, 2754-2759. | 1.3 | 59 |
| 6 | Experimental evidence of very long intrinsic phonon mean free path along the c -axis of graphite. <i>Applied Physics Letters</i> , 2015, 106, . | 1.5 | 58 |
| 7 | SiO ₂ -coated porous anodic alumina membranes for high flow rate electroosmotic pumping. <i>Nanotechnology</i> , 2007, 18, 275705. | 1.3 | 47 |
| 8 | A High Power Density Micro-Thermoelectric Generator Fabricated by an Integrated Bottom-Up Approach. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 744-749. | 1.7 | 46 |
| 9 | Thermoelectric characterization of individual bismuth selenide topological insulator nanoribbons. <i>Nanoscale</i> , 2015, 7, 6683-6690. | 2.8 | 43 |
| 10 | H ₂ O Adsorption/Desorption in MOF-74: <i>Ab Initio</i> Molecular Dynamics and Experiments. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13021-13031. | 1.5 | 43 |
| 11 | Quantum transport characteristics of heavily doped bismuth selenide nanoribbons. <i>Npj Quantum Materials</i> , 2019, 4, . | 1.8 | 40 |
| 12 | Electrical and Thermal Transport through Silver Nanowires and Their Contacts: Effects of Elastic Stiffening. <i>Nano Letters</i> , 2020, 20, 7389-7396. | 4.5 | 40 |
| 13 | Anisotropic Lattice Thermal Conductivity and Suppressed Acoustic Phonons in MOF-74 from First Principles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26000-26008. | 1.5 | 39 |
| 14 | High-thermopower polarized electrolytes enabled by methylcellulose for low-grade heat harvesting. <i>Science Advances</i> , 2022, 8, eabl5318. | 4.7 | 38 |
| 15 | Experimental characterization of a metal-oxide-semiconductor field-effect transistor-based Coulter counter. <i>Journal of Applied Physics</i> , 2008, 103, 104701-10470110. | 1.1 | 37 |
| 16 | Thermoelectric figure of merit of $\langle \sigma \rangle / \langle \kappa \rangle$. <i>Physical Review B</i> , 2010, 81, . | 1.5 | 35 |
| 17 | Fluid infiltration pressure for hydrophobic nanochannels. <i>Physical Review E</i> , 2015, 91, 033022. | 0.8 | 31 |
| 18 | Wide-spectrum, ultrasensitive fluidic sensors with amplification from both fluidic circuits and metal oxide semiconductor field effect transistors. <i>Applied Physics Letters</i> , 2007, 91, . | 1.5 | 28 |

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|----|---|-----|-----------|
| 19 | Three-dimensional modelling of the characteristics of long laminar plasma jets with lateral injection of carrier gas and particulate matter. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 1583-1594. | 1.3 | 27 |
| 20 | Thermal boundary resistance correlated with strain energy in individual Si film-wafer twist boundaries. <i>Materials Today Physics</i> , 2018, 6, 53-59. | 2.9 | 27 |
| 21 | Enhancing the Thermoelectric Properties of the Electroplated Bi ₂ Te ₃ Films by Tuning the Pulse Off-to-on Ratio. <i>Electrochimica Acta</i> , 2015, 178, 217-224. | 2.6 | 25 |
| 22 | Ultralow thermal conductance of the van der Waals interface between organic nanoribbons. <i>Materials Today Physics</i> , 2019, 11, 100139. | 2.9 | 25 |
| 23 | Electron contributions to the heat conduction across Au/graphene/Au interfaces. <i>Carbon</i> , 2017, 115, 665-671. | 5.4 | 24 |
| 24 | Defect Facilitated Phonon Transport through Kinks in Boron Carbide Nanowires. <i>Nano Letters</i> , 2017, 17, 3550-3555. | 4.5 | 23 |
| 25 | The suppression effect of easy-to-activate nucleation sites on the critical heat flux in pool boiling. <i>International Journal of Thermal Sciences</i> , 2018, 129, 231-237. | 2.6 | 23 |
| 26 | Enhanced heat transfer coefficient of flow boiling in microchannels through expansion areas. <i>International Journal of Thermal Sciences</i> , 2022, 177, 107573. | 2.6 | 23 |
| 27 | Motion and heating of non-spherical particles in a plasma jet. <i>Surface and Coatings Technology</i> , 2003, 171, 149-156. | 2.2 | 22 |
| 28 | A setup for measuring the Seebeck coefficient and the electrical resistivity of bulk thermoelectric materials. <i>Review of Scientific Instruments</i> , 2017, 88, 095111. | 0.6 | 21 |
| 29 | Liquid Thermocells Enable Low-Grade Heat Harvesting. <i>Matter</i> , 2020, 3, 1400-1402. | 5.0 | 19 |
| 30 | Water structures near charged (100) and (111) silicon surfaces. <i>Applied Physics Letters</i> , 2009, 94, . | 1.5 | 18 |
| 31 | What do we know about long laminar plasma jets?. <i>Pure and Applied Chemistry</i> , 2006, 78, 1253-1264. | 0.9 | 16 |
| 32 | Design of Cassie-wetting nucleation sites in pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 25-33. | 2.5 | 16 |
| 33 | Experimental characterization of electrical current leakage in poly(dimethylsiloxane) microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 589-598. | 1.0 | 14 |
| 34 | Effects of interfacial roughness on phonon transport in bilayer silicon thin films. <i>Physical Review B</i> , 2015, 92, . | 1.1 | 14 |
| 35 | Effect of abnormal grain growth on thermoelectric properties of hot-pressed Bi _{0.5} Sb _{1.5} Te ₃ alloys. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153284. | 2.8 | 14 |
| 36 | Chemically Switchable n-Type and p-Type Conduction in Bismuth Selenide Nanoribbons for Thermoelectric Energy Harvesting. <i>ACS Nano</i> , 2021, 15, 2791-2799. | 7.3 | 14 |

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|----|--|-----|-----------|
| 37 | Effects of natural convection on the characteristics of a long laminar argon plasma jet issuing horizontally into ambient air. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 3253-3255. | 2.5 | 13 |
| 38 | Ionic current through a nanopore three nanometers in diameter. <i>Physical Review E</i> , 2009, 80, 021918. | 0.8 | 13 |
| 39 | Structure-induced variation of thermal conductivity in epoxy resin fibers. <i>Nanoscale</i> , 2017, 9, 10585-10589. | 2.8 | 13 |
| 40 | Molecular dynamics simulations of ion distribution in nanochannels. <i>Molecular Simulation</i> , 2007, 33, 959-963. | 0.9 | 12 |
| 41 | Reduced thermal conductivity in Er-doped epitaxial $\text{In}_x\text{Ga}_{1-x}\text{Sb}$ alloys. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 11 |
| 42 | Thermal conductivity of zinc blende and wurtzite CdSe nanostructures. <i>Nanoscale</i> , 2015, 7, 16071-16078. | 2.8 | 11 |
| 43 | Single-crystalline 2D erucamide with low friction and enhanced thermal conductivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 540, 29-35. | 2.3 | 11 |
| 44 | Thermophoresis of a Near-Wall Particle at Great Knudsen Numbers. <i>Aerosol Science and Technology</i> , 2002, 36, 39-47. | 1.5 | 9 |
| 45 | Field-Effect Control of Electroosmotic Pumping Using Porous Silicon/Silicon Nitride Membranes. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 1173-1183. | 1.7 | 9 |
| 46 | Measuring nanowire thermal conductivity at high temperatures. <i>Measurement Science and Technology</i> , 2018, 29, 025001. | 1.4 | 9 |
| 47 | Significantly enhanced thermal conductivity of indium arsenide nanowires via sulfur passivation. <i>Scientific Reports</i> , 2017, 7, 13252. | 1.6 | 8 |
| 48 | Effects of surrounding gas on the long laminar argon plasma jet characteristics. <i>International Communications in Heat and Mass Transfer</i> , 2005, 32, 939-946. | 2.9 | 7 |
| 49 | Length-dependent thermal transport in one-dimensional self-assembly of planar π -conjugated molecules. <i>Nanoscale</i> , 2016, 8, 11932-11939. | 2.8 | 7 |
| 50 | Impact of the film thickness and substrate on the thermopower measurement of thermoelectric films by the potential-Seebeck microprobe (PSM). <i>Applied Thermal Engineering</i> , 2016, 107, 552-559. | 3.0 | 7 |
| 51 | Enhanced power factor of n-type $\text{Bi}_{2-x}\text{Te}_{2.8-x}\text{Se}_{0.2-x}$ alloys through an efficient one-step sintering strategy for low-grade heat harvesting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24524-24535. | 5.2 | 7 |
| 52 | Solid-State Thermal Memory of Temperature-Responsive Polymer Induced by Hydrogen Bonds. <i>Nano Letters</i> , 2021, 21, 3843-3848. | 4.5 | 7 |
| 53 | FeVSb-based amorphous films with ultra-low thermal conductivity and high ZT : a potential material for thermoelectric generators. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11435-11445. | 5.2 | 5 |
| 54 | Reference channel-based microfluidic resistance sensing for single yeast cell volume growth measurement. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1. | 1.0 | 4 |

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|----|---|-----|-----------|
| 55 | Tuning thermal conductivity of bismuth selenide nanoribbons by reversible copper intercalation. International Journal of Heat and Mass Transfer, 2020, 159, 120077. | 2.5 | 4 |
| 56 | Estimation of temperature coefficient of resistance for microfabricated platinum thermometers in thermal conductivity measurements of one-dimensional nanostructures. Measurement Science and Technology, 2014, 25, 025008. | 1.4 | 2 |
| 57 | Unusual thermal transport behavior in self-assembled fullerene nanorods. RSC Advances, 2016, 6, 67509-67513. | 1.7 | 2 |
| 58 | Experimental Studies of Thermal Transport in Nanostructures. , 2017, , 319-357. | | 2 |
| 59 | Effective Lorenz Number of the Point Contact between Silver Nanowires. Nano Letters, 2020, 20, 8576-8583. | 4.5 | 2 |
| 60 | Development and optimization of high power density micro-thermoelectric generators. Journal of Physics: Conference Series, 2018, 1052, 012009. | 0.3 | 1 |
| 61 | Thermal Transport of Tin Dioxide Nanowires. IOP Conference Series: Earth and Environmental Science, 2020, 440, 022045. | 0.2 | 1 |
| 62 | Nonmetallic power-law behavior of conductance in Ni-doped NbSe ₃ nanowires. Materials Today Physics, 2022, 27, 100770. | 2.9 | 1 |
| 63 | Thermal Bubble Nucleation in Nanochannels: Simulations and Strategies for Nanobubble Nucleation and Sensing. Materials Research Society Symposia Proceedings, 2008, 1139, 1. | 0.1 | 0 |
| 64 | Ionic Current Through a 3 NM in Diameter Nanopore. , 2009, , . | | 0 |
| 65 | (Invited) Development of Thermoelectric Materials and Thermal Interface Materials By Pulsed Electroplating. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |