Pawel Keblinski

List of Publications by Year in descending order

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137 papers

18,821 citations

61 h-index 128 g-index

137 all docs

137 docs citations

times ranked

137

13309 citing authors

| # | Article | IF | CITATIONS |
|----------------------|---|-------------------|-------------------|
| 1 | Mechanisms of heat flow in suspensions of nano-sized particles (nanofluids). International Journal of Heat and Mass Transfer, 2002, 45, 855-863. | 4.8 | 1,879 |
| 2 | Comparison of atomic-level simulation methods for computing thermal conductivity. Physical Review B, 2002, 65, . | 3.2 | 1,315 |
| 3 | Nanoscale thermal transport. II. 2003–2012. Applied Physics Reviews, 2014, 1, 011305. | 11.3 | 1,277 |
| 4 | Interfacial heat flow in carbon nanotube suspensions. Nature Materials, 2003, 2, 731-734. | 27.5 | 1,027 |
| 5 | A benchmark study on the thermal conductivity of nanofluids. Journal of Applied Physics, 2009, 106, . | 2.5 | 897 |
| 6 | Exact method for the simulation of Coulombic systems by spherically truncated, pairwise râ"1 summation. Journal of Chemical Physics, 1999, 110, 8254-8282. | 3.0 | 809 |
| 7 | THERMAL TRANSPORT IN NANOFLUIDS. Annual Review of Materials Research, 2004, 34, 219-246. | 9.3 | 735 |
| 8 | Nanofluids for thermal transport. Materials Today, 2005, 8, 36-44. | 14.2 | 688 |
| 9 | Role of thermal boundary resistance on the heat flow in carbon-nanotube composites. Journal of Applied Physics, 2004, 95, 8136-8144. | 2.5 | 474 |
| 10 | Viscoelasticity in carbon nanotube composites. Nature Materials, 2005, 4, 134-137. | 27.5 | 443 |
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| 11 | Effect of liquid layering at the liquid–solid interface on thermal transport. International Journal of Heat and Mass Transfer, 2004, 47, 4277-4284. | 4.8 | 423 |
| 12 | Effect of liquid layering at the liquid–solid interface on thermal transport. International Journal of Heat and Mass Transfer, 2004, 47, 4277-4284. Effect of aggregation and interfacial thermal resistance on thermal conductivity of nanocomposites and colloidal nanofluids. International Journal of Heat and Mass Transfer, 2008, 51, 1431-1438. | 4.8 | 423 |
| | Heat and Mass Transfer, 2004, 47, 4277-4284. Effect of aggregation and interfacial thermal resistance on thermal conductivity of nanocomposites | | |
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| 12 | Heat and Mass Transfer, 2004, 47, 4277-4284. Effect of aggregation and interfacial thermal resistance on thermal conductivity of nanocomposites and colloidal nanofluids. International Journal of Heat and Mass Transfer, 2008, 51, 1431-1438. Role of Brownian motion hydrodynamics on nanofluid thermal conductivity. Applied Physics Letters, 2006, 88, 093116. Thermal conductance of nanofluids: is the controversy over?. Journal of Nanoparticle Research, | 4.8 3.3 | 405 361 |
| 12 13 14 | Heat and Mass Transfer, 2004, 47, 4277-4284. Effect of aggregation and interfacial thermal resistance on thermal conductivity of nanocomposites and colloidal nanofluids. International Journal of Heat and Mass Transfer, 2008, 51, 1431-1438. Role of Brownian motion hydrodynamics on nanofluid thermal conductivity. Applied Physics Letters, 2006, 88, 093116. Thermal conductance of nanofluids: is the controversy over?. Journal of Nanoparticle Research, 2008, 10, 1089-1097. Effect of aggregation on thermal conduction in colloidal nanofluids. Applied Physics Letters, 2006, | 4.8 3.3 1.9 | 405 361 359 |
| 12 13 14 15 | Heat and Mass Transfer, 2004, 47, 4277-4284. Effect of aggregation and interfacial thermal resistance on thermal conductivity of nanocomposites and colloidal nanofluids. International Journal of Heat and Mass Transfer, 2008, 51, 1431-1438. Role of Brownian motion hydrodynamics on nanofluid thermal conductivity. Applied Physics Letters, 2006, 88, 093116. Thermal conductance of nanofluids: is the controversy over?. Journal of Nanoparticle Research, 2008, 10, 1089-1097. Effect of aggregation on thermal conduction in colloidal nanofluids. Applied Physics Letters, 2006, 89, 143119. Thermal conductivity of graphene ribbons from equilibrium molecular dynamics: Effect of ribbon | 4.8 3.3 1.9 | 361 359 351 |

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| 19 | Effect of chemical functionalization on thermal transport of carbon nanotube composites. Applied Physics Letters, 2004, 85, 2229-2231. | 3.3 | 272 |
| 20 | How Wetting and Adhesion Affect Thermal Conductance of a Range of Hydrophobic to Hydrophilic Aqueous Interfaces. Physical Review Letters, 2009, 102, 156101. | 7.8 | 251 |
| 21 | Temperature dependence of radial breathing mode Raman frequency of single-walled carbon nanotubes. Physical Review B, 2002, 66, . | 3.2 | 250 |
| 22 | Bonding-induced thermal conductance enhancement at inorganic heterointerfaces usingÂnanomolecular monolayers. Nature Materials, 2013, 12, 118-122. | 27.5 | 223 |
| 23 | Kapitza conductance and phonon scattering at grain boundaries by simulation. Journal of Applied Physics, 2004, 95, 6082-6091. | 2.5 | 222 |
| 24 | Two regimes of thermal resistance at a liquid–solid interface. Journal of Chemical Physics, 2003, 118, 337-339. | 3.0 | 199 |
| 25 | Thermal conductivity enhancement of paraffins by increasing the alignment of molecules through adding CNT/graphene. International Journal of Heat and Mass Transfer, 2013, 58, 209-216. | 4.8 | 190 |
| 26 | Heat transfer from nanoparticles: A corresponding state analysis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15113-15118. | 7.1 | 186 |
| 27 | Thermal expansion of carbon structures. Physical Review B, 2003, 68, . | 3.2 | 185 |
| 28 | Kapitza conductance of silicon–amorphous polyethylene interfaces by molecular dynamics simulations. Physical Review B, 2009, 79, . | 3.2 | 165 |
| 29 | Thermal transport and grain boundary conductance in ultrananocrystalline diamond thin films. Journal of Applied Physics, 2006, 99, 114301. | 2.5 | 139 |
| 30 | Determination of interfacial thermal resistance at the nanoscale. Physical Review B, 2011, 83, . | 3.2 | 136 |
| 31 | Amorphous structure of grain boundaries and grain junctions in nanocrystalline silicon by molecular-dynamics simulation. Acta Materialia, 1997, 45, 987-998. | 7.9 | 131 |
| 32 | Self-diffusion in high-angle fcc metal grain boundaries by molecular dynamics simulation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 2735-2761. | 0.6 | 109 |
| 33 | Pressure tuning of the thermal conductivity of the layered muscovite crystal. Physical Review B, 2009, 80, . | 3.2 | 103 |
| 34 | Vibrations and thermal transport in nanocrystalline silicon. Physical Review B, 2006, 74, . | 3.2 | 102 |
| 35 | Molecular Underpinnings of the Mechanical Reinforcement in Polymer Nanocomposites. Macromolecules, 2007, 40, 4059-4067. | 4.8 | 101 |
| 36 | Thermal Resistance of Nanoscopic Liquidâ^'Liquid Interfaces:  Dependence on Chemistry and Molecular Architecture. Nano Letters, 2005, 5, 2225-2231. | 9.1 | 93 |

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| 37 | Molecular dynamics study of screening in ionic fluids. Journal of Chemical Physics, 2000, 113, 282-291. | 3.0 | 91 |
| 38 | Thermal transport in graphene-based nanocomposite. Journal of Applied Physics, 2011, 110, . | 2.5 | 91 |
| 39 | Interfacial thermal transport in atomic junctions. Physical Review B, 2011, 83, . | 3.2 | 90 |
| 40 | Pressure tuning of the thermal conductance of weak interfaces. Physical Review B, 2011, 84, . | 3.2 | 89 |
| 41 | Effect of crosslink formation on heat conduction in amorphous polymers. Journal of Applied Physics, 2013, 114, . | 2.5 | 89 |
| 42 | Molecular-Dynamics Simulation of Grain-Boundary Diffusion Creep. Journal of Materials Science, 1998, 6, 205-212. | 1.2 | 88 |
| 43 | Thermal rectification at silicon-amorphous polyethylene interface. Applied Physics Letters, 2008, 92, 211908. | 3.3 | 88 |
| 44 | Predicting the thermal conductivity of inorganic and polymeric glasses: The role of anharmonicity. Journal of Applied Physics, 2009, 105, . | 2.5 | 88 |
| 45 | Thermal Transport across a Substrate–Thin-Film Interface: Effects of Film Thickness and Surface Roughness. Physical Review Letters, 2014, 113, 065901. | 7.8 | 88 |
| 46 | Testing the minimum thermal conductivity model for amorphous polymers using high pressure. Physical Review B, $2011, 83, .$ | 3.2 | 87 |
| 47 | Structure and physical properties of paracrystalline atomistic models of amorphous silicon. Journal of Applied Physics, 2001, 90, 4437-4451. | 2.5 | 85 |
| 48 | Role of bonding and coordination in the atomic structure and energy of diamond and silicon grain boundaries. Journal of Materials Research, 1998, 13, 2077-2100. | 2.6 | 81 |
| 49 | Critical heat flux around strongly heated nanoparticles. Physical Review E, 2009, 79, 021404. | 2.1 | 81 |
| 50 | Heat transfer mechanism across few-layer graphene by molecular dynamics. Physical Review B, 2013, 88, | 3.2 | 80 |
| 51 | Charge Distribution and Stability of Charged Carbon Nanotubes. Physical Review Letters, 2002, 89, 255503. | 7.8 | 79 |
| 52 | Phonon interference at self-assembled monolayer interfaces: Molecular dynamics simulations. Physical Review B, 2010, 81, . | 3.2 | 79 |
| 53 | Role of wetting and nanoscale roughness on thermal conductance at liquid-solid interface. Applied Physics Letters, 2011, 99, . | 3.3 | 78 |
| 54 | How Chemistry, Nanoscale Roughness, and the Direction of Heat Flow Affect Thermal Conductance of Solid–Water Interfaces. Industrial & Engineering Chemistry Research, 2012, 51, 1767-1773. | 3.7 | 78 |

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| 55 | Molecular simulation of steady-state evaporation and condensation: Validity of the Schrage relationships. International Journal of Heat and Mass Transfer, 2017, 114, 105-114. | 4.8 | 77 |
| 56 | Nanowire-filled polymer composites with ultrahigh thermal conductivity. Applied Physics Letters, 2013, 102, . | 3.3 | 74 |
| 57 | On the Thermodynamic Stability of Amorphous Intergranular Films in Covalent Materials. Journal of the American Ceramic Society, 1997, 80, 717-732. | 3.8 | 72 |
| 58 | Molecular dynamics simulations of heat and momentum transfer at a solid–fluid interface: Relationship between thermal and velocity slip. International Journal of Heat and Mass Transfer, 2006, 49, 3401-3407. | 4.8 | 72 |
| 59 | Molecular dynamics simulation of interfacial thermal conductance between silicon and amorphous polyethylene. Applied Physics Letters, 2007, 91, . | 3.3 | 71 |
| 60 | Nonequilibrium molecular dynamics simulation of the in-plane thermal conductivity of superlattices with rough interfaces. Physical Review B, 2009, 79, . | 3.2 | 69 |
| 61 | Bonding and pressure-tunable interfacial thermal conductance. Physical Review B, 2011, 84, . | 3.2 | 65 |
| 62 | Equilibrium molecular dynamics determination of thermal conductivity for multi-component systems. Journal of Applied Physics, 2012, 112, . | 2.5 | 61 |
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| 64 | Inter-tube thermal conductance in carbon nanotubes arrays and bundles: Effects of contact area and pressure. Applied Physics Letters, 2012, 100, . | 3.3 | 59 |
| 65 | Improvement in thermal conductivity of paraffin by adding high aspect-ratio carbon-based nano-fillers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1358-1361. | 2.1 | 59 |
| 66 | Contact resistance in percolating networks. Physical Review B, 2004, 69, . | 3.2 | 56 |
| 67 | Coalescence-induced jumping of nanoscale droplets on super-hydrophobic surfaces. Applied Physics Letters, 2015, 107, . | 3.3 | 55 |
| 68 | Cross-plane thermal conductivity of superlattices with rough interfaces using equilibrium and non-equilibrium molecular dynamics. International Journal of Heat and Mass Transfer, 2011, 54, 2014-2020. | 4.8 | 54 |
| 69 | Thermal conductance across grain boundaries in diamond from molecular dynamics simulation. Journal of Applied Physics, 2007, 102, 063503. | 2.5 | 47 |
| 70 | Molecular dynamics investigation of nanoscale cavitation dynamics. Journal of Chemical Physics, 2014, 141, 234508. | 3.0 | 46 |
| 71 | Thermodynamic behavior of a model covalent material described by the environment-dependent interatomic potential. Physical Review B, 2002, 66, . | 3.2 | 43 |
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| 73 | Finite-size effects on molecular dynamics interfacial thermal-resistance predictions. Physical Review B, 2014, 90, . | 3.2 | 43 |
| 74 | Equilibrium and nonequilibrium molecular dynamics simulations of thermal conductance at solid-gas interfaces. Physical Review E, 2013, 87, 022119. | 2.1 | 41 |
| 75 | Hydrodynamic field around a Brownian particle. Physical Review E, 2006, 73, 010502. | 2.1 | 35 |
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| 79 | Molecular simulation of steady-state evaporation and condensation in the presence of a non-condensable gas. Journal of Chemical Physics, 2018, 148, 064708. | 3.0 | 33 |
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| 82 | Carbon Nanotubes with Graphitic Wings. Advanced Materials, 2004, 16, 610-613. | 21.0 | 28 |
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| 101 | Commonalities in frequency-dependent viscoelastic damping in glasses in the MHz to THz regime. Journal of Applied Physics, 2017, 122, . | 2.5 | 12 |
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| 119 | Interfacial thermal conductance-rheology nexus in metal-contacted nanocomposites. Applied Physics Letters, 2013, 103, . | 3.3 | 5 |
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| 121 | Modeling of Heat Transport in Polymers and Their Nanocomposites. , 2020, , 975-997. | | 4 |
| 122 | Damping and Stiffness Enhancement in Composite Systems with Carbon Nanotubes Films. Materials Research Society Symposia Proceedings, 2002, 740, 1. | 0.1 | 3 |
| 123 | Using vibrational mode analysis for predicting the coefficient of thermal expansion of amorphous polymers. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2114-2121. | 2.1 | 3 |
| 124 | On the applicability of continuum scale models for ultrafast nanoscale liquid-vapor phase change. International Journal of Multiphase Flow, 2021, 135, 103508. | 3.4 | 2 |
| 125 | Viscoelastic bandgap in multilayers of inorganic–organic nanolayer interfaces. Scientific Reports, 2022, 12, . | 3.3 | 2 |
| 126 | Atomistic Simulation of Nanocrystalline Materials. Materials Research Society Symposia Proceedings, 1995, 400, 115. | 0.1 | 1 |

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| 127 | Quantum Dots from Carbon Nanotube Junctions. Materials Research Society Symposia Proceedings, 2003, 789, 217. | 0.1 | 1 |
| 128 | Using pressure to probe thermodynamic anomalies in tetrahedrally-bonded materials. Journal of Applied Physics, $2019,126,.$ | 2.5 | 1 |
| 129 | High Temperature Structure and Properties of Grain Boundaries - Insights Obtained from Atomic Level Simulations. Acta Physica Polonica A, 2002, 102, 123-134. | 0.5 | 1 |
| 130 | Structural Disorder and Localized Gap States in Silicon Grain Boundaries from a Tight-Binding Model. Materials Research Society Symposia Proceedings, 1997, 491, 513. | 0.1 | 0 |
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| 132 | Structure and Properties of Polycrystalline Materials From Simulation: An Interfacial Perspective. Materials Research Society Symposia Proceedings, 1999, 586, 289. | 0.1 | 0 |
| 133 | Quantum Dots from Irradiated Carbon Nanotubes. AIP Conference Proceedings, 2005, , . | 0.4 | O |
| 134 | Molecular Dynamics Simulation of Thermal Conductivity of Diamondoid Crystals. Materials Research Society Symposia Proceedings, 2007, 1022, 1. | 0.1 | 0 |
| 135 | Thermal Transport in Self-Assembled Conductive Networks for Thermal Interface Materials. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, . | 1.8 | O |
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| 137 | Molecular dynamics study of domain switching dynamics in KNbO3 and BaTiO3. Journal of Materials Science, 2022, 57, 12929-12946. | 3.7 | O |