

# Arden L Moore

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

6,076  
citations

279798

23  
h-index

243625

44  
g-index

51  
all docs

51  
docs citations

51  
times ranked

7131  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Phonon thermal transport in silicon thin films with nanoscale constrictions and expansions. <i>Journal of Applied Physics</i> , 2022, 131, 025106.   | 2.5 | 1         |
| 2  | Counter-flow for stabilization of microfluidic thermal reactors: Experimental and numerical study. <i>Applied Thermal Engineering</i> , 2021, 188, 116607.   | 6.0 | 1         |
| 3  | In situ infrared temperature sensing for real-time defect detection in additive manufacturing. <i>Additive Manufacturing</i> , 2021, 47, 102328.   | 3.0 | 5         |
| 4  | Effect of pH variation and annealing on covalently assembled nanodiamond films. <i>Applied Surface Science</i> , 2021, 565, 150585.  | 6.1 | 1         |
| 5  | Microscale tracking of unconstrained moving multiphase contact lines via a capacitance sensor array. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 113046.   | 4.1 | 2         |
| 6  | Spatially periodic vapor bubble activity during subcooled pool boiling on 1D aluminum alloy micro-fin arrays. <i>International Journal of Heat and Mass Transfer</i> , 2021, 180, 121760.                  | 4.8 | 7         |
| 7  | Directed covalent assembly of nanodiamonds into thin films. <i>Diamond and Related Materials</i> , 2020, 101, 107605.  | 3.9 | 9         |
| 8  | Experimental determination of the role of increased surface area in pool boiling from nanostructured surfaces. <i>Experimental Thermal and Fluid Science</i> , 2020, 111, 109956.                          | 2.7 | 16        |
| 9  | Tailoring the thermal transport properties of monolayer hexagonal boron nitride by grain size engineering. <i>2D Materials</i> , 2020, 7, 015031.  | 4.4 | 21        |
| 10 | Printer orientation effects and performance of novel 3-D printable acrylonitrile butadiene styrene (ABS) composite filaments for thermal enhancement. <i>Polymer Testing</i> , 2019, 80, 106125.           | 4.8 | 17        |
| 11 | A low-altitude unmanned aerial vehicle (UAV) created using 3D-printed bioplastic. <i>Journal of Unmanned Vehicle Systems</i> , 2019, 7, 118-128.   | 1.2 | 0         |
| 12 | Superior, processing-dependent thermal conductivity of cellulose Nanocrystal-Poly(vinyl alcohol) composite films. <i>Polymer</i> , 2019, 164, 17-25.   | 3.8 | 19        |
| 13 | Operational enhancements for small scale thermal energy storage devices. <i>Microsystem Technologies</i> , 2018, 24, 2617-2625.  | 2.0 | 3         |
| 14 | 3-D printer settings effects on the thermal conductivity of acrylonitrile butadiene styrene (ABS). <i>Polymer Testing</i> , 2018, 70, 389-395.   | 4.8 | 29        |
| 15 | A batch fabrication-compatible multifunctional thermal sensor based on thin film thermocouple and thermopile elements. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 188-196.                      | 4.1 | 5         |
| 16 | Enhanced Ionic Sensitivity in Solution-Gated Graphene-Hexagonal Boron Nitride Heterostructure Field-Effect Transistors. <i>Advanced Materials Technologies</i> , 2018, 3, 1800133.                         | 5.8 | 14        |
| 17 | Temperature-dependent electrical resistance of conductive polylactic acid filament for fused deposition modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 1215-1224. | 3.0 | 33        |
| 18 | Aluminum-based one- and two-dimensional micro fin array structures: high-throughput fabrication and heat transfer testing. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 025012.       | 2.6 | 10        |

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|----|---|------|-----------|
| 19 | Flexible electronics-compatible non-enzymatic glucose sensing via transparent CuO nanowire networks on PET films. <i>Nanotechnology</i> , 2017, 28, 245502.   | 2.6  | 28        |
| 20 | Spectral element simulations of three dimensional convective heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 1023-1038.  | 4.8  | 5         |
| 21 | Enhanced thermal conduction and influence of interfacial resistance within flexible high aspect ratio copper nanowire/polymer composites. <i>Composites Science and Technology</i> , 2017, 144, 70-78.                    | 7.8  | 58        |
| 22 | APCVD hexagonal boron nitride thin films for passive near-junction thermal management of electronics. <i>Nanotechnology</i> , 2017, 28, 505705.   | 2.6  | 5         |
| 23 | Foam-like hierarchical hexagonal boron nitride as a non-traditional thermal conductivity enhancer for polymer-based composite materials. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 273-281.     | 4.8  | 31        |
| 24 | Three Dimensional Simulations of Convective Heat Transfer With Spectral Element Method. , 2017, , .   |      | 0         |
| 25 | Zinc Composites With Enhanced Thermal Conductivity for Use in Fused Deposition Modeling Systems. , 2017, , .  |      | 0         |
| 26 | Glass-like thermal conductivity in nanostructures of a complex anisotropic crystal. <i>Physical Review B</i> , 2017, 96, .  | 3.2  | 10        |
| 27 | Design and Performance of Novel Low-Profile Heat Sinks Created Through Additive Manufacturing. , 2016, , .  |      | 1         |
| 28 | Three Dimensional Simulations of Fluid Flow and Heat Transfer with Spectral Element Method. , 2016, , .   |      | 1         |
| 29 | Saturated pool boiling heat transfer from vertically oriented silicon surfaces modified with foam-like hexagonal boron nitride nanomaterials. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 964-971. | 4.8  | 24        |
| 30 | Reexamination of basal plane thermal conductivity of suspended graphene samples measured by electro-thermal micro-bridge methods. <i>AIP Advances</i> , 2015, 5, .  | 1.3  | 40        |
| 31 | Three-dimensional foam-like hexagonal boron nitride nanomaterials via atmospheric pressure chemical vapor deposition. <i>Journal of Materials Science</i> , 2015, 50, 6220-6226.  | 3.7  | 29        |
| 32 | Thermal Conductivity in Nanostructured Films: From Single Cellulose Nanocrystals to Bulk Films. <i>Biomacromolecules</i> , 2014, 15, 4096-4101.   | 5.4  | 119       |
| 33 | Emerging challenges and materials for thermal management of electronics. <i>Materials Today</i> , 2014, 17, 163-174.  | 14.2 | 1,359     |
| 34 | Phonon Transport and Thermoelectricity in Defect-Engineered InAs Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1404, 36.  | 0.1  | 6         |
| 35 | Thermoelectric Properties of Cold-Pressed Higher Manganese Silicides for Waste Heat Recovery. <i>Journal of Electronic Materials</i> , 2012, 41, 1564-1572.   | 2.2  | 27        |
| 36 | Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide. <i>Journal of Heat Transfer</i> , 2011, 133, .  | 2.1  | 32        |

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|----|--|------|-----------|
| 37 | Raman Measurements of Thermal Transport in Suspended Monolayer Graphene of Variable Sizes in Vacuum and Gaseous Environments. ACS Nano, 2011, 5, 321-328.  | 14.6 | 474       |
| 38 | Thermal conductivity of indium arsenide nanowires with wurtzite and zinc blende phases. Physical Review B, 2011, 83, .   | 3.2  | 96        |
| 39 | On errors in thermal conductivity measurements of suspended and supported nanowires using micro-thermometer devices from low to high temperatures. Measurement Science and Technology, 2011, 22, 015103. | 2.6  | 48        |
| 40 | Thermal Conductivity Measurement of Graphene Exfoliated on Silicon Dioxide. , 2010, , .  |      | 1         |
| 41 | Effect of growth base pressure on the thermoelectric properties of indium antimonide nanowires. Journal Physics D: Applied Physics, 2010, 43, 025406.  | 2.8  | 50        |
| 42 | Two-Dimensional Phonon Transport in Supported Graphene. Science, 2010, 328, 213-216.   | 12.6 | 1,692     |
| 43 | Thermal Transport in Suspended and Supported Monolayer Graphene Grown by Chemical Vapor Deposition. Nano Letters, 2010, 10, 1645-1651.   | 9.1  | 1,103     |
| 44 | Thermal Conductivity Measurements of Nylon 11-Carbon Nanofiber Nanocomposites. Journal of Heat Transfer, 2009, 131, .  | 2.1  | 19        |
| 45 | Thermal conductivity suppression in bismuth nanowires. Journal of Applied Physics, 2009, 106, .  | 2.5  | 77        |
| 46 | Thermoelectric and structural characterizations of individual electrodeposited bismuth telluride nanowires. Journal of Applied Physics, 2009, 105, .   | 2.5  | 151       |
| 47 | Phonon backscattering and thermal conductivity suppression in sawtooth nanowires. Applied Physics Letters, 2008, 93, .   | 3.3  | 159       |
| 48 | Measurement and analysis of thermopower and electrical conductivity of an indium antimonide nanowire from a vapor-liquid-solid method. Journal of Applied Physics, 2007, 101, 023706.                    | 2.5  | 81        |
| 49 | Determination of Transport Properties in Chromium Disilicide Nanowires via Combined Thermoelectric and Structural Characterizations. Nano Letters, 2007, 7, 1649-1654.                                   | 9.1  | 131       |
| 50 | One-dimensional electron transport and thermopower in an individual InSb nanowire. Journal of Physics Condensed Matter, 2006, 18, 9651-9657.   | 1.8  | 25        |
| 51 | Experiential Learning in the Thermal Sciences: Introducing and Reinforcing Fundamental Thermodynamics and Heat Transfer Principles to K-12 and Engineering Undergraduate Students. , 0, , .              |      | 1         |