

# Kevin Robert Bagnall

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4809716/publications.pdf>

Version: 2024-02-01

15  
papers

651  
citations

759233

12  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

962  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Nanoporous membrane device for ultra high heat flux thermal management. <i>Microsystems and Nanoengineering</i> , 2018, 4, 1.  | 7.0 | 154       |
| 2  | Thermal Spreading Resistance and Heat Source Temperature in Compound Orthotropic Systems With Interfacial Resistance. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013, 3, 1826-1841. | 2.5 | 64        |
| 3  | Analytical Solution for Temperature Rise in Complex Multilayer Structures With Discrete Heat Sources. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014, 4, 817-830.                   | 2.5 | 62        |
| 4  | Thermal Expansion Coefficient of Monolayer Molybdenum Disulfide Using Micro-Raman Spectroscopy. <i>Nano Letters</i> , 2019, 19, 4745-4751.   | 9.1 | 54        |
| 5  | Simultaneous measurement of temperature, stress, and electric field in GaN HEMTs with micro-Raman spectroscopy. <i>Review of Scientific Instruments</i> , 2017, 88, 113111.  | 1.3 | 51        |
| 6  | Application of the Kirchhoff Transform to Thermal Spreading Problems With Convection Boundary Conditions. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014, 4, 408-420.               | 2.5 | 47        |
| 7  | Experimental Characterization of the Thermal Time Constants of GaN HEMTs Via Micro-Raman Thermometry. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 2121-2128.  | 3.0 | 45        |
| 8  | Wide-Field Magnetic Field and Temperature Imaging Using Nanoscale Quantum Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26525-26533.  | 8.0 | 41        |
| 9  | High Heat Flux Evaporation of Low Surface Tension Liquids from Nanoporous Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7232-7238.  | 8.0 | 36        |
| 10 | Gas Adsorption Characteristics of Metal-Organic Frameworks via Quartz Crystal Microbalance Techniques. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15313-15321.  | 3.1 | 32        |
| 11 | Theory of Thermal Time Constants in GaN High-Electron-Mobility Transistors. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 606-620.   | 2.5 | 22        |
| 12 | Electric field dependence of optical phonon frequencies in wurtzite GaN observed in GaN high electron mobility transistors. <i>Journal of Applied Physics</i> , 2016, 120, .   | 2.5 | 12        |
| 13 | Characterization of thin film evaporation in micropillar wicks using micro-Raman spectroscopy. <i>Applied Physics Letters</i> , 2018, 113, .   | 3.3 | 12        |
| 14 | Contributed Review: Experimental characterization of inverse piezoelectric strain in GaN HEMTs via micro-Raman spectroscopy. <i>Review of Scientific Instruments</i> , 2016, 87, 061501.                                   | 1.3 | 10        |
| 15 | Transient thermal dynamics of GaN HEMTs. , 2016, , .   |     | 9         |