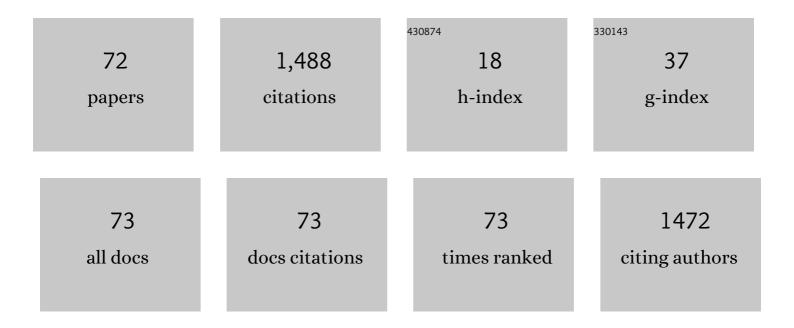
List of Publications by Year in descending order

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DETED F RAAD

| # | Article | IF | CITATIONS |
|----|--|------------------------------|-----------|
| 1 | Thermal Conductivity of Amorphous NbO _{<i>x</i>} Thin Films and Its Effect on Volatile Memristive Switching. ACS Applied Materials & Interfaces, 2022, 14, 21270-21277. | 8.0 | 5 |
| 2 | Thermal effects in Ga2O3 rectifiers and MOSFETs borrowing from GaN. , 2022, , 441-467. | | 0 |
| 3 | The transient thermoreflectance approach for high-resolution temperature mapping of GaN devices. , 2022, , 231-250. | | 0 |
| 4 | Compact 3D Thermal Model for VLSI and ULSI Interconnect Network Reliability Verification. IEEE Transactions on Device and Materials Reliability, 2021, 21, 240-251. | 2.0 | 1 |
| 5 | High-Resolution Thermoreflectance Imaging Investigation of Self-Heating in AlGaN/GaN HEMTs on Si, SiG, and Diamond Substrates, IEEE Transactions on Electron Devices, 2020, 67, 5415-5420. Schottky-Barrier-Induced Asymmetry in the Negative-Differential-Resistance Response of Amml:math | 3.0 | 24 |
| 6 | xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"> <mml:mi>Nb</mml:mi> <mml:mo>/</mml:mo> <mml:msub><mml:mrow><mml:mi>nb</mml:mi>nb mathvariant="normal">O</mml:mrow><mml:mi>x</mml:mi></mml:msub> / <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"><mml:mi>Pt</mml:mi></mml:math> Cross-Point Devices. Physical Review Applied, | ni> <mml:n 3.8</mml:n | ni 12 |
| 7 | 20 Standardized Heat Spreader Design for Passive Cooling of Interconnects in the BEOL of ICs. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1010-1019. | 2.5 | 3 |
| 8 | Electric Field- and Current-Induced Electroforming Modes in NbO <i>_x</i> . ACS Applied Materials & Interfaces, 2020, 12, 8422-8428. | 8.0 | 27 |
| 9 | Electric-Based Thermal Characterization of GaN Technologies Affected by Trapping Effects. IEEE Transactions on Electron Devices, 2020, 67, 1952-1958. | 3.0 | 6 |
| 10 | High-voltage high-current vertical geometry Ga2O3 rectifiers. , 2020, , . | | 0 |
| 11 | High Resolution Thermoreflectance Imaging and Numerical Modeling of Self-Heating in GaN HEMT on SiC. , 2020, , . | | 0 |
| 12 | Current Localization and Redistribution as the Basis of Discontinuous Current Controlled Negative Differential Resistance in NbO <i>_x</i> . Advanced Functional Materials, 2019, 29, 1906731. | 14.9 | 39 |
| 13 | Characterization of Temperature Rise in Alternating Current Electrothermal Flow Using Thermoreflectance Method. Analytical Chemistry, 2019, 91, 12492-12500. | 6.5 | 15 |
| 14 | (Invited) Coupled Experimental and Numerical Investigation of High-Voltage GaN HEMTs. ECS Transactions, 2019, 89, 11-16. | 0.5 | 4 |
| 15 | Thermoreflectance Temperature Mapping of Ga2O3 Schottky Barrier Diodes. ECS Transactions, 2019, 89, 3-7. | 0.5 | 7 |
| 16 | GaN-On-Diamond HEMT Technology With T _{AVG} = 176°C at P _{DC,max} = 56 W/mm Measured by Transient Thermoreflectance Imaging. IEEE Electron Device Letters, 2019, 40, 881-884. | 3.9 | 52 |
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| 18 | Assessment of CMP Fill Pattern Effect on the Thermal Performance of Interconnects in Integrated | | 1 |

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| 20 | Thermal Modeling and Experimental Validation of Heat Sink Design for Passive Cooling of BEOL IC Structures. , 2018, , . | | 3 |
| 21 | Thermal Characterization of Si BEOL Microelectronic Structures. , 2018, , . | | 1 |
| 22 | Thermal Performance Improvement of GaN-on-Diamond High Electron Mobility Transistors. , 2018, , . | | 7 |
| 23 | Temperature dependence of the thermoreflectance coefficient of gold by the use of a phase-locked single-point measurement approach. , 2018, , . | | 3 |
| 24 | Electrothermal Evaluation of AlGaN/GaN Membrane High Electron Mobility Transistors by Transient Thermoreflectance. IEEE Journal of the Electron Devices Society, 2018, 6, 922-930. | 2.1 | 14 |
| 25 | Quantifying substrate removal induced electrothermal degradation in AlGaN/GaN HEMTs. , 2017, , . | | 3 |
| 26 | Thermoreflectance temperature measurements for optically emitting devices. Microelectronics Journal, 2014, 45, 515-520. | 2.0 | 10 |
| 27 | Thermal investigations of integrated circuits in systems at THERMINIC 2012. Microelectronics Journal, 2014, 45, 483. | 2.0 | 1 |
| 28 | Measurement of thermal conductivity of nanofluids and thermal interface materials using the laser-based transient thermoreflectance method. , 2013, , . | | 3 |
| 29 | Thermal conductivity of isotopically enriched silicon carbide. , 2013, , . | | 5 |
| 30 | Thermal Conductivity Measurements of Ultra-Thin Amorphous Poly(Methyl Methacrylate) (PMMA) Films. , 2013, , . | | 1 |
| 31 | Thermal conductivity measurements of novel SOI films using submicron thermography and transient thermoreflectance. , 2012, , . | | 3 |
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| 37 | Thermal Challenges in Next-Generation Electronic Systems. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 801-815. | 1.3 | 352 |
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| 53 | Influence of the metallic absorption layer on the quality of thermal conductivity measurements by the transient thermo-reflectance method. Microelectronics Journal, 2002, 33, 697-703. | 2.0 | 23 |
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| 60 | The surface marker and micro cell method. International Journal for Numerical Methods in Fluids, 1997, 25, 749-778. | 1.6 | 2 |
| 61 | An Implicit Multidomain Spectral Collocation Method for the Simulation of Gas Bearings Between Textured Surfaces. Journal of Tribology, 1996, 118, 783-793. | 1.9 | 2 |
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| 63 | Velocity Boundary Conditions for the Simulation of Free Surface Fluid Flow. Journal of Computational Physics, 1995, 116, 262-276. | 3.8 | 51 |
| 64 | An implicit multidomain spectral collocation method for stiff highly non-linear fluid dynamics problems. Computer Methods in Applied Mechanics and Engineering, 1995, 120, 163-182. | 6.6 | 4 |
| 65 | The Introduction of Micro Cells to Treat Pressure in Free Surface Fluid Flow Problems. Journal of Fluids Engineering, Transactions of the ASME, 1995, 117, 683-690. | 1.5 | 28 |
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