

Younes Ezzahri

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/974518/publications.pdf>

Version: 2024-02-01

77
papers

1,661
citations

257450

24
h-index

302126

39
g-index

78
all docs

78
docs citations

78
times ranked

1641
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Thermal Transistor. Physical Review Letters, 2016, 116, 200601.	7.8	183
2	Microscale and Nanoscale Thermal Characterization Techniques. Journal of Electronic Packaging, Transactions of the ASME, 2008, 130, .	1.8	111
3	Modulation and amplification of radiative far field heat transfer: Towards a simple radiative thermal transistor. Applied Physics Letters, 2015, 106, .	3.3	66
4	Radiative cooling by tailoring surfaces with microstructures: Association of a grating and a multi-layer structure. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 221, 155-163.	2.3	66
5	Radiative thermal rectification between SiC and SiO ₂ . Optics Express, 2015, 23, A1388.	3.4	65
6	Quantum thermal diode based on two interacting spinlike systems under different excitations. Physical Review E, 2017, 95, 022128.	2.1	59
7	Coherent phonons in Si ¹⁵³ SiGe superlattices. Physical Review B, 2007, 75, .	3.2	58
8	Radiative Thermal Memristor. Physical Review Letters, 2019, 123, 025901.	7.8	54
9	Radiative thermal rectification using superconducting materials. Applied Physics Letters, 2014, 104, .	3.3	52
10	Nanostructured Interfaces for Thermoelectrics. Journal of Electronic Materials, 2010, 39, 1456-1462.	2.2	50
11	Simple far-field radiative thermal rectifier using Fabry-Pérot cavities based infrared selective emitters. Applied Optics, 2014, 53, 3479.	1.8	50
12	Modeling of the electrical conductivity, thermal conductivity, and specific heat capacity of $\frac{\langle \sigma \rangle}{\langle \sigma \rangle} \frac{\langle \kappa \rangle}{\langle \kappa \rangle} \frac{\langle C_p \rangle}{\langle C_p \rangle}$ Physical Review B, 2018, 98, .	3.2	49
13	Cross-plane Seebeck coefficient and Lorenz number in superlattices. Physical Review B, 2007, 76, .	3.2	48
14	Transistorlike Device for Heating and Cooling Based on the Thermal Hysteresis of $\frac{\langle \sigma \rangle}{\langle \sigma \rangle} \frac{\langle \kappa \rangle}{\langle \kappa \rangle} \frac{\langle C_p \rangle}{\langle C_p \rangle}$ Physical Review Applied, 2016, 6, .	3.8	46
15	Thermal hysteresis measurement of the VO ₂ dielectric function for its metal-insulator transition by visible-IR ellipsometry. Journal of Applied Physics, 2018, 124, .	2.5	40
16	A comparison of thin film microrefrigerators based on Si/SiGe superlattice and bulk SiGe. Microelectronics Journal, 2008, 39, 981-991.	2.0	39
17	Vacuum-induced phonon transfer between two solid dielectric materials: Illustrating the case of Casimir force coupling. Physical Review B, 2014, 90, .	3.2	38
18	Thermal hysteresis measurement of the VO ₂ emissivity and its application in thermal rectification. Scientific Reports, 2018, 8, 8479.	3.3	36

#	ARTICLE	IF	CITATIONS
19	Conductive thermal diode based on the thermal hysteresis of VO ₂ and nitinol. Journal of Applied Physics, 2018, 123, .	2.5	34
20	Thermophysical characterisation of VO ₂ thin films hysteresis and its application in thermal rectification. Scientific Reports, 2019, 9, 8728.	3.3	34
21	Measurement of the hysteretic thermal properties of W-doped and undoped nanocrystalline powders of VO ₂ . Scientific Reports, 2019, 9, 14687.	3.3	34
22	Optimized thermal amplification in a radiative transistor. Journal of Applied Physics, 2016, 119, .	2.5	29
23	Thermal energy transport in a surface phonon-polariton crystal. Physical Review B, 2016, 93, .	3.2	27
24	Photonic thermal diode based on superconductors. Journal of Applied Physics, 2017, 122, .	2.5	25
25	VO ₂ -based radiative thermal transistor with a semi-transparent base. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 52-61.	2.3	22
26	Near field radiative heat transfer between two nonlocal dielectrics. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 154, 55-62.	2.3	21
27	Dynamical heat transport amplification in a far-field thermal transistor of VO ₂ excited with a laser of modulated intensity. Journal of Applied Physics, 2016, 119, .	2.5	21
28	Cross-plan Si ^δ -SiGe superlattice acoustic and thermal properties measurement by picosecond ultrasonics. Journal of Applied Physics, 2007, 101, 013705.	2.5	20
29	Dynamical thermal conductivity of bulk semiconductor crystals. Journal of Applied Physics, 2012, 112, 083515.	2.5	19
30	Application of network identification by deconvolution method to the thermal analysis of the pump-probe transient thermoreflectance signal. Review of Scientific Instruments, 2009, 80, 074903.	1.3	18
31	Microscale and Nanoscale Thermal Characterization Techniques. , 2007, , .		17
32	Study of thermomechanical properties of Si ^δ -SiGe superlattices using femtosecond transient thermoreflectance technique. Applied Physics Letters, 2005, 87, 103506.	3.3	16
33	Dynamical behavior and cut-off frequency of Si/SiGe microcoolers. Superlattices and Microstructures, 2007, 41, 7-16.	3.1	15
34	VO ₂ Substrate Effect on the Thermal Rectification of a Far-Field Radiative Diode. Physical Review Applied, 2020, 14, .	3.8	15
35	Short time transient thermal behavior of solid-state microrefrigerators. Journal of Applied Physics, 2009, 106, .	2.5	14
36	Ballistic and diffusive transport of energy and heat in metals. Physical Review B, 2009, 79, .	3.2	14

#	ARTICLE	IF	CITATIONS
37	Temperature dependence of a microstructured SiC coherent thermal source. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 180, 29-38.	2.3	14
38	Effective interface thermal resistance and thermal conductivity of dielectric nanolayers. <i>International Journal of Thermal Sciences</i> , 2018, 131, 40-47.	4.9	14
39	Equilibrium domain structure in a ferromagnetic film coated by a superconducting film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 306, 344-347.	2.1	12
40	Transient thermal imaging of pulsed-operation superlattice micro-refrigerators. , 2009, , .		12
41	Maximal near-field radiative heat transfer between two plates. <i>EPJ Applied Physics</i> , 2013, 63, 30902.	0.7	11
42	Dynamical behavior of the scanning thermal microscope (SThM) thermal resistive probe studied using Si/SiGe microcoolers. <i>Superlattices and Microstructures</i> , 2005, 38, 69-75.	3.1	10
43	Effect of embedding nanoparticles on the lattice thermal conductivity of bulk semiconductor crystals. <i>Journal of Applied Physics</i> , 2013, 113, 043510.	2.5	8
44	Bias-dependent MOS transistor thermal resistance and non-uniform self-heating temperature. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 075101.	2.8	6
45	Quantum Thermal Rectification to Design Thermal Diodes and Transistors. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 163-170.	1.5	6
46	Analytical description of the radiative-conductive heat transfer in a gray medium contained between two diffuse parallel plates. <i>Applied Mathematical Modelling</i> , 2018, 56, 51-64.	4.2	6
47	Transient Energy and Heat Transport in Metals: Effect of the Discrete Character of the Lattice. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	5
48	Dynamical thermoelectric coefficients of bulk semiconductor crystals: Towards high thermoelectric efficiency at high frequencies. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	5
49	Nonlocal study of the near field radiative heat transfer between two n-doped semiconductors. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 34-39.	4.8	5
50	Polaritonic figure of merit of plane structures. <i>Optics Express</i> , 2017, 25, 25938.	3.4	5
51	Harmonic Regime Analysis and Inverse Method Applied to The Simultaneous Determination of Thermoelectric Properties. , 2006, , .		4
52	Characterization of Single Barrier Microrefrigerators at Cryogenic Temperatures. <i>Journal of Electronic Materials</i> , 2009, 38, 1309-1314.	2.2	3
53	Thermal emission by a subwavelength aperture. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 173, 1-6.	2.3	3
54	Heat transport in semiconductor crystals under large temperature gradients. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 1357-1363.	4.8	3

#	ARTICLE	IF	CITATIONS
55	Heat transport in semiconductor crystals: Beyond the local-linear approximation. Journal of Applied Physics, 2020, 128, 105104.	2.5	3
56	Characterization of thermoelectric devices by laser induced Seebeck electromotive force (LIS-EMF) measurement. Journal Physics D: Applied Physics, 2005, 38, 1489-1497.	2.8	2
57	Thermal Conductance of a Surface Phonon-Polariton Crystal Made up of Polar Nanorods. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 135-139.	1.5	2
58	Modulated heat conduction in a two-layer dielectric system with dynamical interface thermal resistance. Journal of Applied Physics, 2018, 124, 245101.	2.5	2
59	Simultaneous determination of thermal diffusivity and thermal conductivity of a thin layer using double modulated thermal excitations. Journal of Applied Physics, 2019, 126, 145103.	2.5	2
60	Periodic amplification of radiative heat transfer. Journal of Applied Physics, 2019, 125, 064302.	2.5	2
61	Optimization of Si/SiGe Microrefrigerators for Hybrid Solid-State/Liquid Cooling. , 2007, , .		2
62	Application of Picosecond Ultrasonics to Non-Destructive Analysis in VLSI circuits. Microelectronics Reliability, 2003, 43, 1803-1807.	1.7	1
63	Thermal and thermomechanical study of micro-refrigerators on a chip based on semiconductor heterostructures. , 0, , .		1
64	Simulation of Si/SiGe micro-cooler by thermal quadrupoles method. , 2005, , .		1
65	Characterization of Heat Propagation along Single Tin Dioxide Nanobelt Using the Thermoreflectance Method. Materials Research Society Symposia Proceedings, 2007, 1022, 1.	0.1	1
66	Measurement of Thin Film Isotropic and Anisotropic Thermal Conductivity Using 3D and Thermoreflectance Imaging. , 2008, , .		1
67	Capturing the Cumulative Effect in the Pump Probe Transient Thermoreflectance Technique using Network Identification by Deconvolution Method. Materials Research Society Symposia Proceedings, 2011, 1347, 1.	0.1	1
68	Characterization of the temperature behavior of optimized SiC gratings emissivity. International Journal of Heat and Mass Transfer, 2021, 172, 121140.	4.8	1
69	Transient Energy and Heat Transport in Metals. , 2009, , .		1
70	Solid-state microrefrigeration in conjunction with liquid cooling. , 2008, , .		0
71	Investigating Coherent Zone-Folded Acoustic Phonons in Si/SiGe Superlattices by Transient Thermoreflectance Technique. Materials Research Society Symposia Proceedings, 2009, 1221, 8031.	0.1	0
72	Analysing Transient Thermoreflectance Data Using Network Identification by Deconvolution. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Solid-State Microrefrigeration in Conjunction With Liquid Cooling. Journal of Electronic Packaging, Transactions of the ASME, 2010, 132, .	1.8	0
74	Dynamical behaviour of a far-field radiative thermal transistor. , 2015, , .		0
75	Invariant for one-dimensional heat conduction in dielectrics and metals. Europhysics Letters, 2017, 118, 34001.	2.0	0
76	Size effects on the thermal conductivity of nano aerogels. , 2017, , .		0
77	Reply to the Comment by Hamou Sadat et al.. Europhysics Letters, 2018, 123, 54002.	2.0	0