Jeremie DREVILLON

List of Publications by Year
in descending order

34	1,271	331670 21	454955 30
papers	citations	h-index	g-index

34	34	34	978
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum Thermal Transistor. Physical Review Letters, 2016, 116, 200601.	7.8	183
2	Colored Radiative Cooling Coatings with Nanoparticles. ACS Photonics, 2020, 7, 1312-1322.	6.6	91
3	Near-field heat transfer mediated by surface wave hybridization between two films. Journal of Applied Physics, 2009, 106, .	2.5	85
4	Noncontact heat transfer between two metamaterials. Physical Review B, 2010, 81, .	3.2	72
5	Modulation and amplification of radiative far field heat transfer: Towards a simple radiative thermal transistor. Applied Physics Letters, 2015, 106, .	3.3	66
6	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
7	Radiative thermal rectification between SiC and SiO_2. Optics Express, 2015, 23, A1388.	3.4	65
8	Heat transport through plasmonic interactions in closely spaced metallic nanoparticle chains. Physical Review B, 2008, 77, .	3.2	62
9	Radiative thermal rectification using superconducting materials. Applied Physics Letters, 2014, 104, .	3.3	52
10	Simple far-field radiative thermal rectifier using Fabryâ€“Perot cavities based infrared selective emitters. Applied Optics, 2014, 53, 3479.	1.8	50
11	Modeling of the electrical conductivity, thermal conductivity, and specific heat capacity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2018, 98, .	3.2	49
12	Ab initiodesign of coherent thermal sources. Journal of Applied Physics, 2007, 102, 114305.	2.5	47
13	Transistorlike Device for Heating and Cooling Based on the Thermal Hysteresis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>VO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review Applied, 2016, 6, .	3.8	46
14	Selective emitters design and optimization for thermophotovoltaic applications. Journal of Applied Physics, 2012, 111, .	2.5	36
15	Conductive thermal diode based on the thermal hysteresis of VO2 and nitinol. Journal of Applied Physics, 2018, 123, .	2.5	34
16	Measurement of the hysteretic thermal properties of W-doped and undoped nanocrystalline powders of VO2. Scientific Reports, 2019, 9, 14687.	3.3	34
17	Optimized thermal amplification in a radiative transistor. Journal of Applied Physics, 2016, 119, .	2.5	29
18	Tailoring the local density of states of nonradiative field at the surface of nanolayered materials. Applied Physics Letters, 2009, 94, 153117.	3.3	27

#	ARTICLE	IF	CITATIONS
19	Thermal energy transport in a surface phonon-polariton crystal. Physical Review B, 2016, 93, .	3.2	27
20	Photonic thermal diode based on superconductors. Journal of Applied Physics, 2017, 122, .	2.5	25
21	Far field coherent thermal emission from a bilayer structure. Journal of Applied Physics, 2011, 109, 034315.	2.5	22
22	VO2-based radiative thermal transistor with a semi-transparent base. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 52-61.	2.3	22
23	Dynamical heat transport amplification in a far-field thermal transistor of VO2 excited with a laser of modulated intensity. Journal of Applied Physics, 2016, 119, .	2.5	21
24	VO ₂ Substrate Effect on the Thermal Rectification of a Far-Field Radiative Diode. Physical Review Applied, 2020, 14, .	3.8	15
25	Temperature dependence of a microstructured SiC coherent thermal source. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 180, 29-38.	2.3	14
26	Role of confined Bloch waves in the near field heat transfer between two photonic crystals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1314-1322.	2.3	11
27	Maximal near-field radiative heat transfer between two plates. EPJ Applied Physics, 2013, 63, 30902.	0.7	11
28	Polaritonic figure of merit of plane structures. Optics Express, 2017, 25, 25938.	3.4	5
29	Coherent thermal emission in midinfrared from a bilayer structure. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1156-1161.	2.3	2
30	Periodic amplification of radiative heat transfer. Journal of Applied Physics, 2019, 125, 064302.	2.5	2
31	Control of Near-Field Emitted by Micro and Nanostructured Materials. , 2009, , .		0
32	Near Field Heat Transfer Between Metamaterials. , 2010, , .		0
33	Dynamical behaviour of a far-field radiative thermal transistor. , 2015, , .		0
34	Near-Field Thermal Emission of Thin Films. , 2008, , .		0