

Jerome Saint-martin

List of Publications by Year in descending order

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18
papers

387
citations

1040056

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h-index

1058476

14
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19
all docs

19
docs citations

19
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermoelectric properties in graphene nanoribbons by resonant tunneling of electrons. Physical Review B, 2011, 83, .	3.2	167
2	Graphene nanomesh transistor with high on/off ratio and good saturation behavior. Applied Physics Letters, 2013, 103, .	3.3	39
3	Thermoelectric performance of disordered and nanostructured graphene ribbons using Greenâ€™s function method. Journal of Computational Electronics, 2012, 11, 67-77.	2.5	35
4	Bandgap nanoengineering of graphene tunnel diodes and tunnel transistors to control the negative differential resistance. Journal of Computational Electronics, 2013, 12, 85-93.	2.5	31
5	Pseudosaturation and Negative Differential Conductance in Graphene Field-Effect Transistors. IEEE Transactions on Electron Devices, 2013, 60, 985-991.	3.0	25
6	Large on/off current ratio in hybrid graphene/BN nanoribbons by transverse electric field-induced control of bandgap. Applied Physics Letters, 2014, 105, 073114.	3.3	22
7	Electro-thermal simulation based on coupled Boltzmann transport equations for electrons and phonons. Journal of Computational Electronics, 2016, 15, 3-15.	2.5	19
8	Phonon transmission at Si/Ge and polytypic Ge interfaces using full-band mismatch based models. Journal of Applied Physics, 2018, 123, 025702.	2.5	14
9	Heat transfer in rough nanofilms and nanowires using full band <i>ab initio</i> Monte Carlo simulation. Journal of Physics Condensed Matter, 2018, 30, 495902.	1.8	11
10	<i>Ab initio</i> based calculations of the thermal conductivity at the micron scale. Applied Physics Letters, 2018, 112, .	3.3	9
11	Revisiting thermal conductivity and interface conductance at the nanoscale. International Journal of Heat and Mass Transfer, 2022, 183, 122056.	4.8	6
12	Full-Band modelling of phonons in polytype Ge and Si. Journal of Physics: Conference Series, 2017, 906, 012007.	0.4	4
13	Study of phonon transport across Si/Ge interfaces using Full-Band phonon Monte Carlo simulation. Journal of Computational Electronics, 2022, 21, 744-755.	2.5	2
14	Transport behaviors in graphene field effect transistors on boron nitride substrate. , 2012, , .		1
15	On the non-linear effects in graphene devices. Journal Physics D: Applied Physics, 2014, 47, 094007.	2.8	1
16	High thermoelectric figure of merit in devices made of vertically stacked graphene layers. , 2015, , .		1
17	Electrothermal simulation of ultra-scale MOSEFT. , 2015, , .		0
18	Spectral Simulation of Heat Transfer Across Polytype Interfaces. Crystal Research and Technology, 0, , 2200017.	1.3	0