

Giuseppe Romano

List of Publications by Year in descending order

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33
papers

906
citations

567281

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477307

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g-index

33
all docs

33
docs citations

33
times ranked

1196
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal effective medium theory to predict the thermal conductivity in nanostructured materials. International Journal of Heat and Mass Transfer, 2022, 183, 122040.	4.8	9
2	Multifidelity deep neural operators for efficient learning of partial differential equations with application to fast inverse design of nanoscale heat transport. Physical Review Research, 2022, 4, .	3.6	41
3	Mode- and space-resolved thermal transport of alloy nanostructures. International Journal of Heat and Mass Transfer, 2022, 195, 123191.	4.8	3
4	Mitigating the Effect of Nanoscale Porosity on Thermoelectric Power Factor of Si. ACS Applied Energy Materials, 2021, 4, 1915-1923.	5.1	10
5	Enhanced Thermoelectric Performance of Polycrystalline Si _{0.8} Ge _{0.2} Alloys through the Addition of Nanoscale Porosity. Nanomaterials, 2021, 11, 2591.	4.1	7
6	âˆˆ,PV: An end-to-end differentiable solar-cell simulator. Computer Physics Communications, 2021, 272, 108232.	7.5	5
7	Thermal transport in nanoporous holey silicon membranes investigated with optically induced transient thermal gratings. Journal of Applied Physics, 2020, 128, .	2.5	6
8	Parameter-free model to estimate thermal conductivity in nanostructured materials. Physical Review B, 2019, 100, .	3.2	11
9	Fast and interpretable classification of small X-ray diffraction datasets using data augmentation and deep neural networks. Npj Computational Materials, 2019, 5, .	8.7	177
10	Bayesim: A tool for adaptive grid model fitting with Bayesian inference. Computer Physics Communications, 2019, 239, 161-165.	7.5	8
11	Diffusive Phonons in Nongray Nanostructures. Journal of Heat Transfer, 2019, 141, .	2.1	5
12	Impact of thermally dead volume on phonon conduction along silicon nanoladders. Nanoscale, 2018, 10, 11117-11122.	5.6	20
13	Nanostructured Composites Based on Liquid-Crystalline Elastomers. Polymers, 2018, 10, 773.	4.5	22
14	Directional Phonon Suppression Function as a Tool for the Identification of Ultralow Thermal Conductivity Materials. Scientific Reports, 2017, 7, 44379.	3.3	7
15	Thermal anisotropy enhanced by phonon size effects in nanoporous materials. Applied Physics Letters, 2017, 110, .	3.3	11
16	Phonon bottleneck identification in disordered nanoporous materials. Physical Review B, 2017, 96, .	3.2	18
17	Phonon Conduction in Silicon Nanobeam Labyrinths. Scientific Reports, 2017, 7, 6233.	3.3	28
18	Single-molecule electronics: Cooling individual vibrational modes by the tunneling current. Journal of Chemical Physics, 2016, 144, 114310.	3.0	13

#	ARTICLE	IF	CITATIONS
19	Temperature-dependent thermal conductivity in silicon nanostructured materials studied by the Boltzmann transport equation. <i>Physical Review B</i> , 2016, 93, .	3.2	44
20	Simulating Nanoscale Heat Transport. , 2016, , 3669-3679.		0
21	Heat Conduction in Nanostructured Materials Predicted by Phonon Bulk Mean Free Path Distribution. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	36
22	Simulating Nanoscale Heat Transport. , 2015, , 1-12.		0
23	Toward phonon-boundary engineering in nanoporous materials. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	42
24	Mesoscale modeling of phononic thermal conductivity of porous Si: interplay between porosity, morphology and surface roughness. <i>Journal of Computational Electronics</i> , 2012, 11, 8-13.	2.5	32
25	Piezoelectric potential in vertically aligned nanowires for high output nanogenerators. <i>Nanotechnology</i> , 2011, 22, 465401.	2.6	159
26	The Multiscale Paradigm in Electronic Device Simulation. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 1425-1432.	3.0	97
27	Simulation of Inelastic Scattering in Molecular Junctions: Application to Inelastic Electron Tunneling Spectroscopy and Dissipation Effects. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 2512-2526.	0.4	2
28	Heating and cooling mechanisms in single-molecule junctions. <i>Physical Review B</i> , 2010, 81, .	3.2	37
29	Handshaking multiscale thermal model of nanostructured devices. , 2010, , .		1
30	TiberCAD: towards multiscale simulation of optoelectronic devices. <i>Optical and Quantum Electronics</i> , 2008, 40, 1077-1083.	3.3	25
31	Joule heating in molecular tunnel junctions: application to C60. <i>Journal of Computational Electronics</i> , 2008, 7, 384-389.	2.5	6
32	Electronâ€“phonon scattering in molecular electronics: from inelastic electron tunnelling spectroscopy to heating effects. <i>New Journal of Physics</i> , 2008, 10, 065020.	2.9	24
33	Modeling of Dissipative Transport in Molecular Systems. , 2007, , .		0