

Nicki Frank Hinsche

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,348
citations

687363

13
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

2338
citing authors

#	ARTICLE	IF	CITATIONS
1	Reply to comment on "The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals"™. 2D Materials, 2019, 6, 048002.	4.4	12
2	Electron-phonon coupling in single-layer MoS ₂ . Surface Science, 2019, 681, 64-69.	1.9	7
3	Electron-phonon interaction and transport properties of metallic bulk and monolayer transition metal dichalcogenide TaS ₂ . 2D Materials, 2018, 5, 015009.	4.4	29
4	The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals. 2D Materials, 2018, 5, 042002.	4.4	711
5	Spin-dependent electron-phonon coupling in the valence band of single-layer WS ₂ . Physical Review B, 2017, 96, .	3.2	25
6	Phonon limited electronic transport in Pb. Journal of Physics Condensed Matter, 2017, 29, 355501.	1.8	12
7	Ab initio description of the thermoelectric properties of heterostructures in the diffusive limit of transport. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 672-683.	1.8	5
8	Nanostructure, thermoelectric properties, and transport theory of V ₂ VI ₃ and V ₂ VI ₃ /IV ^{VI} based superlattices and nanomaterials. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 662-671.	1.8	13
9	Ab Initio Description of Thermoelectric Properties Based on the Boltzmann Theory. , 2015, , 187-221.		0
10	Impact of the Topological Surface State on the Thermoelectric Transport in Sb ₂ Te ₃ Thin Films. ACS Nano, 2015, 9, 4406-4411.	14.6	54
11	Thermoelectric cooler concepts and the limit for maximum cooling. Journal of Physics Condensed Matter, 2014, 26, 255803.	1.8	14
12	Signature of the topological surface state in the thermoelectric properties of Bi ₂ Te ₃ /Sb ₂ Te ₃ superlattices. Physical Review B, 2014, 89, .	1.8	18
13	Lorenz Function of Bi ₂ Te ₃ /Sb ₂ Te ₃ Superlattices. Journal of Electronic Materials, 2013, 42, 1406-1410.	2.2	11
14	Thermoelectric transport in strained Si and Si/Ge heterostructures. Journal of Physics Condensed Matter, 2012, 24, 275501.	1.8	27
15	First-principles study of the influence of strain on anisotropic thermoelectric transport in Bi ₂ Te ₃ /Sb ₂ Te ₃ superlattices. Applied Physics Letters, 2012, 101, 162105.	3.2	0
16	Thermoelectric transport in Bi ₂ Te ₃ /Sb ₂ Te ₃ superlattices. Applied Physics Letters, 2012, 101, 162105.	3.2	56
17	Thermoelectric properties of porous silicon. Applied Physics A: Materials Science and Processing, 2012, 107, 789-794.	2.3	57
18	Effect of strain on the thermoelectric properties of silicon: an ab initio study. Journal of Physics Condensed Matter, 2011, 23, 295502.	1.8	46

#	ARTICLE	IF	CITATIONS
19	<p>Band structure and transport anisotropy of Bi₂Te₃</p> <p>Influence of strain on anisotropic thermoelectric transport in Bi₂Te₃</p>	3.2	124
20	<p>Band structure and transport anisotropy of Bi₂Te₃</p> <p>and Sb₂Te₃: implications of the rhombohedral <i>k</i>-space texture on the evaluation of the in-plane/out-of-plane conductivity anisotropy. Journal of Physics Condensed Matter, 2011, 23, 505504.</p>	3.2	75
21	<p>Band structure and transport anisotropy of Bi₂Te₃</p> <p>and Sb₂Te₃: implications of the rhombohedral <i>k</i>-space texture on the evaluation of the in-plane/out-of-plane conductivity anisotropy. Journal of Physics Condensed Matter, 2011, 23, 505504.</p>	1.8	13
22	<p>Strong influence of complex band structure on tunneling electroresistance: A combined model and <i>ab initio</i> study. Physical Review B, 2010, 82, .</p>	3.2	22
23	<p>High-order harmonic generation by a driven mesoscopic ring with a localized impurity. Physical Review A, 2009, 79, .</p>	2.5	13