Nicki Frank Hinsche

List of Publications by Year
in descending order

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	The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals. 2D Materials, 2018, 5, 042002.	4.4	711
2	Electronic structure and transport anisotropy of Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>and Sb<mml:math	3.2	124
3	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>and Sb<mml:math	3.2	75
4	Thermoelectric properties of porous silicon. Applied Physics A: Materials Science and Processing, 2012, 107, 789-794.	2.3	57
5	Thermoelectric transport in Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/Sb<mml:math	3.2	56
6	Impact of the Topological Surface State on the Thermoelectric Transport in Sb₂Te₃ Thin Films. ACS Nano, 2015, 9, 4406-4411.	14.6	54
7	Effect of strain on the thermoelectric properties of silicon: anab initiostudy. Journal of Physics Condensed Matter, 2011, 23, 295502.	1.8	46
8	Electronâ€“phonon interaction and transport properties of metallic bulk and monolayer transition metal dichalcogenide TaS ₂. 2D Materials, 2018, 5, 015009.	4.4	29
9	Thermoelectric transport in strained Si and Si/Ge heterostructures. Journal of Physics Condensed Matter, 2012, 24, 275501.	1.8	27
10	Strong influence of complex band structure on tunneling electroresistance: A combined model andab initiostudy. Physical Review B, 2010, 82, .	3.2	22
11	Spin-dependent electron-phonon coupling in the valence band of single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2017, 96, .	3.2	19
12	Signature of the topological surface state in the thermoelectric properties of <span class="aps-inline-formula"><math><msub><mrow><mtext>Bi</mtext></mrow><mn>2</mn& class="aps-inline-formula"><math><msub><mrow><mtext>Te</mtext></mrow><mn>3</mn& Physical Review B, 2014, 89, .	3.2	18
13	Thermoelectric cooler concepts and the limit for maximum cooling. Journal of Physics Condensed Matter, 2014, 26, 255803.	1.8	14
14	High-order harmonic generation by a driven mesoscopic ring with a localized impurity. Physical Review A, 2009, 79, .	2.5	13
15	Bi₂Te₃: implications of the rhombohedralk-space texture on the evaluation of the in-plane/out-of-plane conductivity anisotropy. Journal of Physics Condensed Matter, 2011, 23, 505504.	1.8	13
16	Nanostructure, thermoelectric properties, and transport theory of V₂VI₃ and V₂VI₃/IVâ€“VI based superlattices and nanomaterials. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 662-671.	1.8	13
17	Phonon limited electronic transport in Pb. Journal of Physics Condensed Matter, 2017, 29, 355501.	1.8	12
18	Reply to comment on â€˜The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystalsâ€™. 2D Materials, 2019, 6, 048002.	4.4	12

#	Article	IF	Citations
19	Lorenz Function of Bi2Te3/Sb2Te3 Superlattices. Journal of Electronic Materials, 2013, 42, 1406-1410.	2.2	11
20	Electronâ€“phonon coupling in single-layer MoS2. Surface Science, 2019, 681, 64-69.	1.9	7
21	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
22	Publisherâ€™s Note: Influence of strain on anisotropic thermoelectric transport in Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>and Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mml:	3.2	0
23	Ab Initio Description of Thermoelectric Properties Based on the Boltzmann Theory. , 2015, , 187-221.		0