Davide Campi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5400505/publications.pdf

Version: 2024-02-01

34	2,561	361045	395343
papers	citations	20 h-index	33 g-index

34	34	34	4330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-dimensional materials from high-throughput computational exfoliation of experimentally known compounds. Nature Nanotechnology, 2018, 13, 246-252.	15.6	1,317
2	Equipartition of Energy Defines the Sizeâ€“Thickness Relationship in Liquid-Exfoliated Nanosheets. ACS Nano, 2019, 13, 7050-7061.	7.3	123
3	Large-scale synthesis of crystalline g-C ₃ N ₄ nanosheets and high-temperature H ₂ sieving from assembled films. Science Advances, 2020, 6, eaay9851.	4.7	105
4	Mobility of two-dimensional materials from first principles in an accurate and automated framework. Physical Review Materials, 2018, 2, .	0.9	93
5	Elastic properties of a macroscopic graphene sample from phonon dispersion measurements. Carbon, 2012, 50, 4903-4910.	5.4	91
6	First-principles calculation of lattice thermal conductivity in crystalline phase change materials: GeTe, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Sb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Te</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mat	1.1	86
7	Prediction of a Large-Gap and Switchable Kane-Mele Quantum Spin Hall Insulator. Physical Review Letters, 2018, 120, 117701.	2.9	79
8	Unveiling the Mechanisms Leading to H₂ Production Promoted by Water Decomposition on Epitaxial Graphene at Room Temperature. ACS Nano, 2016, 10, 4543-4549.	7.3	60
9	Indium selenide: an insight into electronic band structure and surface excitations. Scientific Reports, 2017, 7, 3445.	1.6	60
10	2-D Materials for Ultrascaled Field-Effect Transistors: One Hundred Candidates under the Ab Initio Microscope. ACS Nano, 2020, 14, 8605-8615.	7.3	56
11	Relative Abundance of Z2 Topological Order in Exfoliable Two-Dimensional Insulators. Nano Letters, 2019, 19, 8431-8440.	4.5	50
12	Unveiling mode-selected electronâ€“phonon interactions in metal films by helium atom scattering. Physical Chemistry Chemical Physics, 2014, 16, 7159.	1.3	48
13	Surface and subsurface phonons of Bi(111) measured with helium atom scattering. Physical Review B, 2013, 87, .	1.1	42
14	Atomistic Simulations of the Crystallization and Aging of GeTe Nanowires. Journal of Physical Chemistry C, 2017, 121, 23827-23838.	1.5	42
15	Electron-phonon interaction and thermal boundary resistance at the crystal-amorphous interface of the phase change compound GeTe. Journal of Applied Physics, 2015, 117, .	1.1	41
16	Prediction of Phonon-Mediated Superconductivity with High Critical Temperature in the Two-Dimensional Topological Semimetal W₂N₃. Nano Letters, 2021, 21, 3435-3442.	4.5	31
17	Low-energy excitations of graphene on Ru(0 0 0 1). Carbon, 2015, 93, 1-10.	5.4	30
18	Nanoscale surface dynamics of Bi₂Te₃(111): observation of a prominent surface acoustic wave and the role of van der Waals interactions. Nanoscale, 2018, 10, 14627-14636.	2.8	27

#	Article	IF	Citations
19	Evidence of confinement of the Ï€ plasmon in periodically rippled graphene on Ru(0001). Physical Chemistry Chemical Physics, 2013, 15, 11356.	1.3	24
20	Valley-Engineering Mobilities in Two-Dimensional Materials. Nano Letters, 2019, 19, 3723-3729.	4.5	23
21	Terahertz surface modes and electron-phonon coupling on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> (111). Physical Review Research, 2020, 2, .	2.3	21
22	Atomistic simulations of thermal conductivity in GeTe nanowires. Journal Physics D: Applied Physics, 2020, 53, 054001.	1.3	20
23	Atom-surface van der Waals potentials of topological insulators and semimetals from scattering measurements. Physical Chemistry Chemical Physics, 2021, 23, 7637-7652.	1.3	17
24	Statics and dynamics of multivalley charge density waves in Sb(111). Npj Quantum Materials, 2019, 4, .	1.8	14
25	A Novel Sb₂Te₃ Polymorph Stable at the Nanoscale. Chemistry of Materials, 2015, 27, 4368-4373.	3.2	13
26	Surface lattice dynamics and electronâ€“phonon interaction in cesium ultra-thin films. Physical Chemistry Chemical Physics, 2017, 19, 16358-16364.	1.3	10
27	The electron-phonon interaction at deep Bi 2 Te3-semiconductor interfaces from Brillouin light scattering. Scientific Reports, 2017, 7, 16449.	1.6	10
28	Ab-initio calculation of surface phonons at the Sb2Te3(111) surface. Surface Science, 2018, 678, 46-51.	0.8	7
29	Evidence for a spin acoustic surface plasmon from inelastic atom scattering. Scientific Reports, 2021, 11, 1506.	1.6	7
30	Efficient Kr/Xe separation from triangular g-C₃N₄ nanopores, a simulation study. Journal of Materials Chemistry A, 2020, 8, 17747-17755.	5.2	6
31	Gas Transport across Carbon Nitride Nanopores: A Comparison of van der Waals Functionals against the Random-Phase Approximation. Journal of Physical Chemistry C, 2021, 125, 18896-18904.	1.5	4
32	Metal Soap Membranes for Gas Separation. Advanced Functional Materials, 2021, 31, 2005629.	7.8	2
33	Surface Phonons: Theoretical Methods and Results. Springer Handbooks, 2020, , 737-782.	0.3	2
34	Novel 2-D Materials for Tunneling FETs: an Ab-initio Study. , 2018, , .		0