

# Davide Campi

## List of Publications by Year in descending order

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34  
papers

2,561  
citations

361045

20  
h-index

395343

33  
g-index

34  
all docs

34  
docs citations

34  
times ranked

4330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Soap Membranes for Gas Separation. <i>Advanced Functional Materials</i> , 2021, 31, 2005629.	7.8	2
2	Atom-surface van der Waals potentials of topological insulators and semimetals from scattering measurements. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7637-7652.	1.3	17
3	Evidence for a spin acoustic surface plasmon from inelastic atom scattering. <i>Scientific Reports</i> , 2021, 11, 1506.	1.6	7
4	Prediction of Phonon-Mediated Superconductivity with High Critical Temperature in the Two-Dimensional Topological Semimetal $W_2N_3$ . <i>Nano Letters</i> , 2021, 21, 3435-3442.	4.5	31
5	Gas Transport across Carbon Nitride Nanopores: A Comparison of van der Waals Functionals against the Random-Phase Approximation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18896-18904.	1.5	4
6	Atomistic simulations of thermal conductivity in GeTe nanowires. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 054001.	1.3	20
7	Efficient Kr/Xe separation from triangular $g-C_3N_4$ nanopores, a simulation study. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17747-17755.	5.2	6
8	2-D Materials for Ultrascaled Field-Effect Transistors: One Hundred Candidates under the <i>Ab Initio</i> Microscope. <i>ACS Nano</i> , 2020, 14, 8605-8615.	7.3	56
9	Large-scale synthesis of crystalline $g-C_3N_4$ nanosheets and high-temperature $H_2$ sieving from assembled films. <i>Science Advances</i> , 2020, 6, eaay9851.	4.7	105
10	Terahertz surface modes and electron-phonon coupling on $Bi_2Te_3$ (111). <i>Physical Review Research</i> , 2020, 2, .		
11	Surface Phonons: Theoretical Methods and Results. <i>Springer Handbooks</i> , 2020, , 737-782.	0.3	2
12	Statics and dynamics of multivalley charge density waves in $Sb(111)$ . <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	14
13	Relative Abundance of $Z_2$ Topological Order in Exfoliable Two-Dimensional Insulators. <i>Nano Letters</i> , 2019, 19, 8431-8440.	4.5	50
14	Equipartition of Energy Defines the Size-Thickness Relationship in Liquid-Exfoliated Nanosheets. <i>ACS Nano</i> , 2019, 13, 7050-7061.	7.3	123
15	Valley-Engineering Mobilities in Two-Dimensional Materials. <i>Nano Letters</i> , 2019, 19, 3723-3729.	4.5	23
16	Two-dimensional materials from high-throughput computational exfoliation of experimentally known compounds. <i>Nature Nanotechnology</i> , 2018, 13, 246-252.	15.6	1,317
17	Ab-initio calculation of surface phonons at the $Sb_2Te_3(111)$ surface. <i>Surface Science</i> , 2018, 678, 46-51.	0.8	7
18	Prediction of a Large-Gap and Switchable Kane-Mele Quantum Spin Hall Insulator. <i>Physical Review Letters</i> , 2018, 120, 117701.	2.9	79

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19	Nanoscale surface dynamics of Bi <sub>2</sub> Te <sub>3</sub> (111): observation of a prominent surface acoustic wave and the role of van der Waals interactions. <i>Nanoscale</i> , 2018, 10, 14627-14636.	2.8	27
20	Novel 2-D Materials for Tunneling FETs: an Ab-initio Study. , 2018, , .		0
21	Mobility of two-dimensional materials from first principles in an accurate and automated framework. <i>Physical Review Materials</i> , 2018, 2, .	0.9	93
22	Surface lattice dynamics and electron-phonon interaction in cesium ultra-thin films. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16358-16364.	1.3	10
23	Indium selenide: an insight into electronic band structure and surface excitations. <i>Scientific Reports</i> , 2017, 7, 3445.	1.6	60
24	First-principles calculation of lattice thermal conductivity in crystalline phase change materials: GeTe, $Sb_2Te_3$ , and $Ge_2Sb_2Te_5$ , and	1.1	86
25	Atomistic Simulations of the Crystallization and Aging of GeTe Nanowires. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23827-23838.	1.5	42
26	The electron-phonon interaction at deep Bi <sub>2</sub> Te <sub>3</sub> -semiconductor interfaces from Brillouin light scattering. <i>Scientific Reports</i> , 2017, 7, 16449.	1.6	10
27	Unveiling the Mechanisms Leading to H <sub>2</sub> Production Promoted by Water Decomposition on Epitaxial Graphene at Room Temperature. <i>ACS Nano</i> , 2016, 10, 4543-4549.	7.3	60
28	Electron-phonon interaction and thermal boundary resistance at the crystal-amorphous interface of the phase change compound GeTe. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	41
29	A Novel Sb <sub>2</sub> Te <sub>3</sub> Polymorph Stable at the Nanoscale. <i>Chemistry of Materials</i> , 2015, 27, 4368-4373.	3.2	13
30	Low-energy excitations of graphene on Ru(0001). <i>Carbon</i> , 2015, 93, 1-10.	5.4	30
31	Unveiling mode-selected electron-phonon interactions in metal films by helium atom scattering. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7159.	1.3	48
32	Evidence of confinement of the ħ plasmon in periodically rippled graphene on Ru(0001). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11356.	1.3	24
33	Surface and subsurface phonons of Bi(111) measured with helium atom scattering. <i>Physical Review B</i> , 2013, 87, .	1.1	42
34	Elastic properties of a macroscopic graphene sample from phonon dispersion measurements. <i>Carbon</i> , 2012, 50, 4903-4910.	5.4	91