

Thibault Sohier

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

2,332
citations

758635

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940134

16
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docs citations

17
times ranked

3918
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional materials from high-throughput computational exfoliation of experimentally known compounds. <i>Nature Nanotechnology</i> , 2018, 13, 246-252.	15.6	1,317
2	Density functional perturbation theory for gated two-dimensional heterostructures: Theoretical developments and application to flexural phonons in graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	198
3	Two-dimensional Fröhlich interaction in transition-metal dichalcogenide monolayers: Theoretical modeling and first-principles calculations. <i>Physical Review B</i> , 2016, 94, .	1.1	155
4	Electron-Phonon Interactions and the Intrinsic Electrical Resistivity of Graphene. <i>Nano Letters</i> , 2014, 14, 1113-1119.	4.5	149
5	Breakdown of Optical Phonons's Splitting in Two-Dimensional Materials. <i>Nano Letters</i> , 2017, 17, 3758-3763.	4.5	127
6	Phonon-limited resistivity of graphene by first-principles calculations: Electron-phonon interactions, strain-induced gauge field, and Boltzmann equation. <i>Physical Review B</i> , 2014, 90, .	1.1	105
7	Mobility of two-dimensional materials from first principles in an accurate and automated framework. <i>Physical Review Materials</i> , 2018, 2, .	0.9	93
8	Enhanced Electron-Phonon Interaction in Multivalley Materials. <i>Physical Review X</i> , 2019, 9, .	2.8	47
9	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , 2021, 15, 11285-11295.	7.3	43
10	Valley-Engineering Mobilities in Two-Dimensional Materials. <i>Nano Letters</i> , 2019, 19, 3723-3729.	4.5	23
11	Density-functional calculation of static screening in two-dimensional materials: The long-wavelength dielectric function of graphene. <i>Physical Review B</i> , 2015, 91, .	1.1	21
12	Electron mobility in monolayer WS ₂ encapsulated in hexagonal boron-nitride. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	17
13	Remote free-carrier screening to boost the mobility of Fröhlich-limited two-dimensional semiconductors. <i>Physical Review Materials</i> , 2021, 5, .	0.9	12
14	Ultralow-voltage design of graphene PN junction quantum reflective switch transistor. <i>Applied Physics Letters</i> , 2011, 98, 213104.	1.5	10
15	Electric field exfoliation and high-TC superconductivity in field-effect hole-doped hydrogenated diamond (111). <i>Applied Surface Science</i> , 2019, 496, 143709.	3.1	8
16	Profiling novel high-conductivity 2D semiconductors. <i>2D Materials</i> , 0, , .	2.0	5
17	Gate Control of Spin-Layer-Locking FETs and Application to Monolayer LuO. <i>Nano Letters</i> , 2021, 21, 7631-7636.	4.5	2