

# Thibault Sohier

## List of Publications by Year in descending order

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17  
papers

2,332  
citations

759233

12  
h-index

940533

16  
g-index

17  
all docs

17  
docs citations

17  
times ranked

3918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remote free-carrier screening to boost the mobility of Fröhlich-limited two-dimensional semiconductors. <i>Physical Review Materials</i> , 2021, 5, .	2.4	12
2	Electron mobility in monolayer WS <sub>2</sub> encapsulated in hexagonal boron-nitride. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	17
3	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , 2021, 15, 11285-11295.	14.6	43
4	Gate Control of Spin-Layer-Locking FETs and Application to Monolayer LuIO. <i>Nano Letters</i> , 2021, 21, 7631-7636.	9.1	2
5	Enhanced Electron-Phonon Interaction in Multivalley Materials. <i>Physical Review X</i> , 2019, 9, .	8.9	47
6	Electric field exfoliation and high-TC superconductivity in field-effect hole-doped hydrogenated diamond (111). <i>Applied Surface Science</i> , 2019, 496, 143709.	6.1	8
7	Valley-Engineering Mobilities in Two-Dimensional Materials. <i>Nano Letters</i> , 2019, 19, 3723-3729.	9.1	23
8	Two-dimensional materials from high-throughput computational exfoliation of experimentally known compounds. <i>Nature Nanotechnology</i> , 2018, 13, 246-252.	31.5	1,317
9	Mobility of two-dimensional materials from first principles in an accurate and automated framework. <i>Physical Review Materials</i> , 2018, 2, .	2.4	93
10	Breakdown of Optical Phononsâ€™ Splitting in Two-Dimensional Materials. <i>Nano Letters</i> , 2017, 17, 3758-3763.	9.1	127
11	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, .	3.2	198
12	Two-dimensional Fröhlich interaction in transition-metal dichalcogenide monolayers: Theoretical modeling and first-principles calculations. <i>Physical Review B</i> , 2016, 94, .	3.2	155
13	Density-functional calculation of static screening in two-dimensional materials: The long-wavelength dielectric function of graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	21
14	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, .	3.2	105
15	Electronâ€™Phonon Interactions and the Intrinsic Electrical Resistivity of Graphene. <i>Nano Letters</i> , 2014, 14, 1113-1119.	9.1	149
16	Ultralow-voltage design of graphene PN junction quantum reflective switch transistor. <i>Applied Physics Letters</i> , 2011, 98, 213104.	3.3	10
17	Profiling novel high-conductivity 2D semiconductors. <i>2D Materials</i> , 0, , .	4.4	5