

Elena Blundo

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

470
citations

840585

11
h-index

887953

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17
all docs

17
docs citations

17
times ranked

422
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of the direct-to-indirect band-gap transition in strained two-dimensional WS_2 and MoS_2 . <i>Physical Review Letters</i> , 2021, 127, 046101.	1.3	100
2	Strain-tuning of the electronic, optical, and vibrational properties of two-dimensional crystals. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	67
3	Controlled Micro/Nanodome Formation in Proton-irradiated Bulk Transition-Metal Dichalcogenides. <i>Advanced Materials</i> , 2019, 31, e1903795.	11.1	60
4	Engineered Creation of Periodic Giant, Nonuniform Strains in MoS_2 Monolayers. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000621.	1.9	38
5	Experimental Adhesion Energy in van der Waals Crystals and Heterostructures from Atomically Thin Bubbles. <i>Physical Review Letters</i> , 2021, 127, 046101.	2.9	36
6	Vibrational Properties in Highly Strained Hexagonal Boron Nitride Bubbles. <i>Nano Letters</i> , 2022, 22, 1525-1533.	4.5	30
7	Nanoscale Measurements of Elastic Properties and Hydrostatic Pressure in H_2 -Bulged MoS_2 Membranes. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001024.	1.9	26
8	Mechanical, Elastic, and Adhesive Properties of Two-Dimensional Materials: From Straining Techniques to State-of-the-Art Local Probe Measurements. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	24
9	Deuterium Adsorption on Free-Standing Graphene. <i>Nanomaterials</i> , 2021, 11, 130.	1.9	14
10	Exceptional Elasticity of Microscale Constrained MoS_2 Domes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48228-48238.	4.0	13
11	Towards free-standing graphene: atomic hydrogen and deuterium bonding to nano-porous graphene. <i>Nanotechnology</i> , 2021, 32, 035707.	1.3	12
12	The Interaction of Hydrogen with the van der Waals Crystal In_2Se_3 . <i>Molecules</i> , 2020, 25, 2526.	1.7	11
13	Tailoring the optical properties of 2D transition metal dichalcogenides by strain. <i>Optical Materials</i> , 2022, 125, 112087.	1.7	9
14	Gap Opening in Double-Sided Highly Hydrogenated Free-Standing Graphene. <i>Nano Letters</i> , 2022, 22, 2971-2977.	4.5	9
15	Hole and Electron Effective Masses in Single InP Nanowires with a Wurtzite-Zincblende Homojunction. <i>ACS Nano</i> , 2020, 14, 11613-11622.	7.3	8
16	Energy Distribution in Tin Halide Perovskite. <i>Solar Rrl</i> , 2022, 6, 2100825.	3.1	8
17	Interplay of lattice, spin, and dipolar properties in CoTeMoO_6 : Emergence of Griffiths-like phase, metamagnetic transition, and magnetodielectric effect. <i>Physical Review B</i> , 2022, 105, .	1.1	5