

Luca Ottaviano

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,576
citations

430874

18
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

2977
citing authors

#	ARTICLE	IF	CITATIONS
1	III ^{â€} VI and IV ^{â€} VI van der Waals Semiconductors InSe, GaSe and GeSe: A Suitable Platform for Efficient Electrochemical Water Splitting, Photocatalysis and Chemical Sensing. Israel Journal of Chemistry, 2022, 62, .	2.3	7
2	Tin Diselenide (SnSe ₂) Van der Waals Semiconductor: Surface Chemical Reactivity, Ambient Stability, Chemical and Optical Sensors. Materials, 2022, 15, 1154.	2.9	11
3	Efficient Hydrogen Evolution Reaction with Bulk and Nanostructured Mitrofanovite Pt ₃ Te ₄ . Nanomaterials, 2022, 12, 558.	4.1	3
4	Unconventional ferrimagnetism and enhanced magnetic ordering temperature in monolayer CrCl ₃ by introducing O impurities and Cl vacancies. JPhys Materials, 2022, 5, 014004.	4.2	3
5	Emerging oxidized and defective phases in low-dimensional CrCl ₃ . Nanoscale Advances, 2021, 3, 4756-4766.	4.6	12
6	Determination of the refractive index and wavelengthâ€dependent optical properties of fewâ€layer CrCl within the Fresnel formalism. Journal of Microscopy, 2021, 283, 145-150.	1.8	5
7	Micro-Raman investigation of p-type B doped Si(100) revisited. Applied Surface Science, 2021, 561, 149691.	6.1	9
8	Doping profiling of beveled Si wafers via UV-micro Raman spectroscopy. Applied Surface Science, 2021, 567, 150824.	6.1	2
9	Electron-phonon coupling origin of the graphene ĩ* -band kink via isotope effect. Physical Review B, 2021, 103, .	3.2	3
10	PdTe ₂ Transitionâ€Metal Dichalcogenide: Chemical Reactivity, Thermal Stability, and Device Implementation. Advanced Functional Materials, 2020, 30, 1906556.	14.9	27
11	On the role of nano-confined water at the 2D/SiO ₂ interface in layer number engineering of exfoliated MoS ₂ via thermal annealing. 2D Materials, 2020, 7, 025001.	4.4	12
12	Excitonâ€phonon coupling and power dependent room temperature photoluminescence of sulphur vacancy doped MoS ₂ via controlled thermal annealing. Nanoscale, 2020, 12, 18899-18907.	5.6	10
13	Sustainable Liquid-Phase Exfoliation of Layered Materials with Nontoxic Polarclean Solvent. ACS Sustainable Chemistry and Engineering, 2020, 8, 18830-18840.	6.7	36
14	Enhancement of the Magnetic Coupling in Exfoliated CrCl ₃ Crystals Observed by Lowâ€Temperature Magnetic Force Microscopy and Xâ€ray Magnetic Circular Dichroism. Advanced Materials, 2020, 32, e2000566.	21.0	26
15	Mechanical exfoliation and layer number identification of single crystal monoclinic CrCl ₃ . Nanotechnology, 2020, 31, 395706.	2.6	28
16	Transitionâ€Metal Dichalcogenide NiTe ₂ : An Ambientâ€Stable Material for Catalysis and Nanoelectronics. Advanced Functional Materials, 2020, 30, 2000915.	14.9	45
17	Near Room Temperature Light-Activated WS ₂ -Decorated rGO as NO ₂ Gas Sensor. Sensors, 2019, 19, 2617.	3.8	39
18	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodalâ€Line Semimetals. Advanced Functional Materials, 2019, 29, 1900438.	14.9	6

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19	XPS study of graphene oxide reduction induced by (100) and (111)-oriented Si substrates. <i>Nanotechnology</i> , 2018, 29, 075704.	2.6	29
20	2D Materials for Gas Sensing Applications: A Review on Graphene Oxide, MoS ₂ , WS ₂ and Phosphorene. <i>Sensors</i> , 2018, 18, 3638.	3.8	382
21	Mechanical exfoliation and layer number identification of MoS ₂ revisited. <i>2D Materials</i> , 2017, 4, 045013.	4.4	93
22	Supramolecular self-assembly of graphene oxide and metal nanoparticles into stacked multilayers by means of a multitasking protein ring. <i>Nanoscale</i> , 2016, 8, 6739-6753.	5.6	24
23	Electronic and geometric structure of graphene/SiC(0001) decoupled by lithium intercalation. <i>Physical Review B</i> , 2015, 91, .	3.2	56
24	Few layered MoS ₂ lithography with an AFM tip: description of the technique and nanospectroscopy investigations. <i>Nanoscale</i> , 2015, 7, 11453-11459.	5.6	23
25	Graphene oxide for gas detection under standard humidity conditions. <i>2D Materials</i> , 2015, 2, 035018.	4.4	46
26	Response to NO ₂ and other gases of resistive chemically exfoliated MoS ₂ -based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 602-613.	7.8	331
27	Graphene oxide: from fundamentals to applications. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 013002.	1.8	113
28	Tunable sulfur desorption in exfoliated MoS ₂ by means of thermal annealing in ultra-high vacuum. <i>Chemical Physics Letters</i> , 2013, 588, 198-202.	2.6	124
29	Use of Optical Contrast To Estimate the Degree of Reduction of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 620-625.	3.1	52
30	Rapid identification of graphene flakes: alumina does it better. <i>Nanotechnology</i> , 2010, 21, 255703.	2.6	19