

Carlo Grazianetti

List of Publications by Year in descending order

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361296

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43
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43
docs citations

43
times ranked

3719
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and universal encapsulation of epitaxial Xenes. Faraday Discussions, 2021, 227, 171-183.	1.6	24
2	Optical Properties of Stanene-like Nanosheets on Al ₂ O ₃ (0001): Implications for Xene Photonics. ACS Applied Nano Materials, 2021, 4, 2351-2356.	2.4	7
3	Hydrophilic Character of Single-Layer MoS ₂ Grown on Ag(111). Journal of Physical Chemistry C, 2021, 125, 9479-9485.	1.5	11
4	Probing the Laser Ablation of Black Phosphorus by Raman Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 8704-8711.	1.5	4
5	Two-Dimensional Silicene-Encapsulated Stanene Heterostructures by Epitaxy. Advanced Functional Materials, 2021, 31, 2102797.	7.8	23
6	How Oxygen Absorption Affects the Al ₂ O ₃ -Encapsulated Blue Phosphorene-Au Alloy. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100217.	1.2	1
7	The Rise of the Xenes: From the Synthesis to the Integration Processes for Electronics and Photonics. Materials, 2021, 14, 4170.	1.3	13
8	The Xenes Generations: A Taxonomy of Epitaxial Single-Element 2D Materials. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900439.	1.2	42
9	Disassembling Silicene from Native Substrate and Transferring onto an Arbitrary Target Substrate. Advanced Functional Materials, 2020, 30, 2004546.	7.8	21
10	Thickness determination of anisotropic van der Waals crystals by raman spectroscopy: the case of black phosphorus. Nanotechnology, 2020, 31, 415703.	1.3	8
11	Two-dimensional Xenes and their device concepts for future micro- and nanoelectronics and energy applications. , 2020, , 181-219.		1
12	Embedding epitaxial (blue) phosphorene in between device-compatible functional layers. Nanoscale, 2019, 11, 18232-18237.	2.8	15
13	Engineering Epitaxial Silicene on Functional Substrates for Nanotechnology. Research, 2019, 2019, 8494606.	2.8	7
14	Encapsulated Silicene Field-Effect Transistors. Nanoscience and Technology, 2018, , 235-254.	1.5	1
15	Optical Conductivity of Two-Dimensional Silicon: Evidence of Dirac Electrodynamics. Nano Letters, 2018, 18, 7124-7132.	4.5	34
16	Silicene, silicene derivatives, and their device applications. Chemical Society Reviews, 2018, 47, 6370-6387.	18.7	261
17	Silicon Nanosheets: Crossover between Multilayer Silicene and Diamond-like Growth Regime. ACS Nano, 2017, 11, 3376-3382.	7.3	61
18	Ultrafast carrier dynamics of epitaxial silicene. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	Electron Confinement at the Si/MoS ₂ Heterosheet Interface. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500619.	1.9	28
20	(Invited) Silicene: Silicon at the Two Dimensional Limit and Its Applications to Nanoelectronics. <i>ECS Transactions</i> , 2016, 75, 703-709.	0.3	7
21	Two-dimensional silicon: the advent of silicene. <i>2D Materials</i> , 2016, 3, 012001.	2.0	155
22	Optical response and ultrafast carrier dynamics of the silicene-silver interface. <i>Physical Review B</i> , 2015, 92, .	1.1	37
23	Silicene field-effect transistors operating at room temperature. <i>Nature Nanotechnology</i> , 2015, 10, 227-231.	15.6	1,429
24	Nucleation and temperature-driven phase transitions of silicene superstructures on Ag(111). <i>Journal of Physics Condensed Matter</i> , 2015, 27, 255005.	0.7	23
25	Ultrafast Dynamics in Epitaxial Silicene on Ag(111). <i>Springer Proceedings in Physics</i> , 2015, , 329-332.	0.1	2
26	Ultrafast dynamics in epitaxial silicene on Ag(111). , 2014, , .		0
27	Engineering the electronic properties of silicene by tuning the composition of MoX ₂ and GaX (X = S,Se,Te) chalcogenide templates. <i>2D Materials</i> , 2014, 1, 011010.	2.0	53
28	Two-Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS ₂ Surface. <i>Advanced Materials</i> , 2014, 26, 2096-2101.	11.1	311
29	Exploring the morphological and electronic properties of silicene superstructures. <i>Applied Surface Science</i> , 2014, 291, 109-112.	3.1	34
30	Vibrational properties of epitaxial silicene layers on (111) Ag. <i>Applied Surface Science</i> , 2014, 291, 113-117.	3.1	49
31	Theoretical aspects of graphene-like group IV semiconductors. <i>Applied Surface Science</i> , 2014, 291, 98-103.	3.1	23
32	Getting through the Nature of Silicene: An sp ² -sp ³ Two-Dimensional Silicon Nanosheet. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16719-16724.	1.5	163
33	Evidence for graphite-like hexagonal AlN nanosheets epitaxially grown on single crystal Ag(111). <i>Applied Physics Letters</i> , 2013, 103, .	1.5	251
34	Nanostructures: Hindering the Oxidation of Silicene with Non-Reactive Encapsulation (<i>Adv. Funct. Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>)	7.8	2
35	Hindering the Oxidation of Silicene with Non-Reactive Encapsulation. <i>Advanced Functional Materials</i> , 2013, 23, 4340-4344.	7.8	161
36	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. <i>ECS Transactions</i> , 2013, 58, 217-227.	0.3	5

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37	Atomic Layer Deposition of Al-Doped ZrO ₂ Thin Films as Gate Dielectric for In _{0.53} Ga _{0.47} As. Journal of the Electrochemical Society, 2012, 159, H220-H224.	1.3	11
38	Effect of Electric Dipoles on Fermi Level Positioning at the Interface between Ultrathin Al ₂ O ₃ Films and Differently Reconstructed In _{0.53} Ga _{0.47} As(001) Surfaces. Journal of Physical Chemistry C, 2012, 116, 18746-18751.	1.5	4
39	Local Electronic Properties of Corrugated Silicene Phases. Advanced Materials, 2012, 24, 5088-5093.	11.1	278
40	Reconstruction dependent reactivity of As-terminated In _{0.53} Ga _{0.47} As(001) surfaces and its influence on the electrical quality of the interface with Al ₂ O ₃ grown by atomic layer deposition. Applied Physics Letters, 2011, 99, .	1.5	11
41	Atomic Layer Deposition of Al-Doped ZrO ₂ Thin Films for Advanced Gate Stack on III-V Substrates. ECS Transactions, 2011, 35, 431-440.	0.3	1