

Carlo Grazianetti

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,579
citations

361296

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315616

38
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43
all docs

43
docs citations

43
times ranked

3719
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicene field-effect transistors operating at room temperature. <i>Nature Nanotechnology</i> , 2015, 10, 227-231.	15.6	1,429
2	Two-Dimensional Si Nanosheets with Local Hexagonal Structure on a MoS ₂ Surface. <i>Advanced Materials</i> , 2014, 26, 2096-2101.	11.1	311
3	Local Electronic Properties of Corrugated Silicene Phases. <i>Advanced Materials</i> , 2012, 24, 5088-5093.	11.1	278
4	Silicene, silicene derivatives, and their device applications. <i>Chemical Society Reviews</i> , 2018, 47, 6370-6387.	18.7	261
5	Evidence for graphite-like hexagonal AlN nanosheets epitaxially grown on single crystal Ag(111). <i>Applied Physics Letters</i> , 2013, 103, .	1.5	251
6	Getting through the Nature of Silicene: An sp ² vs sp ³ Two-Dimensional Silicon Nanosheet. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16719-16724.	1.5	163
7	Hindering the Oxidation of Silicene with Non-Reactive Encapsulation. <i>Advanced Functional Materials</i> , 2013, 23, 4340-4344.	7.8	161
8	Two-dimensional silicon: the advent of silicene. <i>2D Materials</i> , 2016, 3, 012001.	2.0	155
9	Silicon Nanosheets: Crossover between Multilayer Silicene and Diamond-like Growth Regime. <i>ACS Nano</i> , 2017, 11, 3376-3382.	7.3	61
10	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
11	Vibrational properties of epitaxial silicene layers on (111) Ag. <i>Applied Surface Science</i> , 2014, 291, 113-117.	3.1	49
12	The Xenos Generations: A Taxonomy of Epitaxial Single-Element 2D Materials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900439.	1.2	42
13	Optical response and ultrafast carrier dynamics of the silicene-silver interface. <i>Physical Review B</i> , 2015, 92, .	1.1	37
14	Exploring the morphological and electronic properties of silicene superstructures. <i>Applied Surface Science</i> , 2014, 291, 109-112.	3.1	34
15	Optical Conductivity of Two-Dimensional Silicon: Evidence of Dirac Electrodynamics. <i>Nano Letters</i> , 2018, 18, 7124-7132.	4.5	34
16	Electron Confinement at the Si/MoS ₂ Heterosheet Interface. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500619.	1.9	28
17	Stability and universal encapsulation of epitaxial Xenos. <i>Faraday Discussions</i> , 2021, 227, 171-183.	1.6	24
18	Theoretical aspects of graphene-like group IV semiconductors. <i>Applied Surface Science</i> , 2014, 291, 98-103.	3.1	23

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19	Nucleation and temperature-driven phase transitions of silicene superstructures on Ag(111). Journal of Physics Condensed Matter, 2015, 27, 255005.	0.7	23
20	Two-Dimensional Silicene-Stanene Heterostructures by Epitaxy. Advanced Functional Materials, 2021, 31, 2102797.	7.8	23
21	Disassembling Silicene from Native Substrate and Transferring onto an Arbitrary Target Substrate. Advanced Functional Materials, 2020, 30, 2004546.	7.8	21
22	Embedding epitaxial (blue) phosphorene in between device-compatible functional layers. Nanoscale, 2019, 11, 18232-18237.	2.8	15
23	The Rise of the Xenos: From the Synthesis to the Integration Processes for Electronics and Photonics. Materials, 2021, 14, 4170.	1.3	13
24	Reconstruction dependent reactivity of As-decapped 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
25	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
26	Hydrophilic Character of Single-Layer MoS ₂ Grown on Ag(111). Journal of Physical Chemistry C, 2021, 125, 9479-9485.	1.5	11
27	Thickness determination of anisotropic van der Waals crystals by raman spectroscopy: the case of black phosphorus. Nanotechnology, 2020, 31, 415703.	1.3	8
28	(Invited) Silicene: Silicon at the Two Dimensional Limit and Its Applications to Nanoelectronics. ECS Transactions, 2016, 75, 703-709.	0.3	7
29	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
30	Engineering Epitaxial Silicene on Functional Substrates for Nanotechnology. Research, 2019, 2019, 8494606.	2.8	7
31	(Invited) Structural and Chemical Stabilization of the Epitaxial Silicene. ECS Transactions, 2013, 58, 217-227.	0.3	5
32	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
33	Probing the Laser Ablation of Black Phosphorus by Raman Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 8704-8711.	1.5	4
34	Ultrafast carrier dynamics of epitaxial silicene. , 2017, , .		3
35	Nanostructures: Hindering the Oxidation of Silicene with Non-Reactive Encapsulation (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT ₂ /Overlock	7.8	2
36	Ultrafast Dynamics in Epitaxial Silicene on Ag(111). Springer Proceedings in Physics, 2015, , 329-332.	0.1	2

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37	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
38	Encapsulated Silicene Field-Effect Transistors. Nanoscience and Technology, 2018, , 235-254.	1.5	1
39	Two-dimensional Xenes and their device concepts for future micro- and nanoelectronics and energy applications. , 2020, , 181-219.		1
40	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
41	Ultrafast dynamics in epitaxial silicene on Ag(111). , 2014, , .		0