

Antoine Fleurence

List of Publications by Year in descending order

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41
papers

1,982
citations

687363

13
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

2356
citing authors

#	ARTICLE	IF	CITATIONS
1	Adatom-induced dislocation annihilation in epitaxial silicene. 2D Materials, 2021, 8, 045011.	4.4	2
2	Band engineering in an epitaxial two-dimensional honeycomb Si_2S_2 alloy. Physical Review Materials, 2021, 5, .	2.4	6
3	Emergence of nearly flat bands through a kagome lattice embedded in an epitaxial two-dimensional Ge layer with a bitriangular structure. Physical Review B, 2020, 102, .	3.2	4
4	Formation of BN-covered silicene on $\text{ZrB}_2/\text{Si}(111)$ by adsorption of NO and thermal processes. Journal of Chemical Physics, 2020, 153, 064702.	3.0	5
5	First-principles study on the stability and electronic structure of monolayer GaSe with trigonal-antiprismatic structure. Physical Review B, 2020, 102, .	3.2	10
6	Time-resolved X-ray photoelectron diffraction using an angle-resolved time-of-flight electron analyzer. Japanese Journal of Applied Physics, 2020, 59, 100902.	1.5	3
7	Hidden mechanism for embedding the flat bands of Lieb, kagome, and checkerboard lattices in other structures. Physical Review B, 2019, 100, .	3.2	13
8	Formation of hBN monolayers through nitridation of epitaxial silicene on diboride thin films. Journal of Applied Physics, 2019, 126, .	2.5	2
9	Two-Dimensional Materials: Nanomechanical Properties of Epitaxial Silicene Revealed by Noncontact Atomic Force Microscopy (Adv. Mater. Interfaces 2/2019). Advanced Materials Interfaces, 2019, 6, 1970014.	3.7	0
10	Van der Waals integration of silicene and hexagonal boron nitride. 2D Materials, 2019, 6, 035001.	4.4	17
11	Nanomechanical Properties of Epitaxial Silicene Revealed by Noncontact Atomic Force Microscopy. Advanced Materials Interfaces, 2019, 6, 1801278.	3.7	2
12	Atomistic study of GaSe/Ge(111) interface formed through van der Waals epitaxy. Surface and Interface Analysis, 2019, 51, 95-99.	1.8	6
13	Silicene: When Silicon Mimics Graphene. , 2018, , 318-331.		0
14	Metallic atomically-thin layered silicon epitaxially grown on silicene/ ZrB_2 . 2D Materials, 2017, 4, 021015.	4.4	13
15	Insights into the spontaneous formation of silicene sheet on diboride thin films. Applied Physics Letters, 2017, 110, .	3.3	10
16	Single-particle excitation of core states in epitaxial silicene. Physical Review B, 2017, 95, .	3.2	13
17	Guided Molecular Assembly on a Locally Reactive 2D Material. Advanced Materials, 2017, 29, 1703929.	21.0	7
18	Single-domain epitaxial silicene on diboride thin films. Applied Physics Letters, 2016, 108, .	3.3	17

#	ARTICLE	IF	CITATIONS
19	Epitaxial Silicene: Beyond Silicene on Silver Substrates. Springer Series in Materials Science, 2016, , 243-270.	0.6	1
20	Avoiding critical-point phonon instabilities in two-dimensional materials: The origin of the stripe formation in epitaxial silicene. Physical Review B, 2014, 90, .	3.2	17
21	Diverse forms of bonding in two-dimensional Si allotropes: Nematic orbitals in the MoS ₂ structure. Physical Review B, 2014, 90, .	3.2	24
22	Microscopic origin of the π states in epitaxial silicene. Applied Physics Letters, 2014, 104, 021605.	3.3	23
23	Band structure of silicene on zirconium diboride (0001) thin-film surface: Convergence of experiment and calculations in the one-Si-atom Brillouin zone. Physical Review B, 2014, 90, .	3.2	35
24	Core level excitations – A fingerprint of structural and electronic properties of epitaxial silicene. Journal of Chemical Physics, 2014, 140, 184704.	3.0	22
25	First-principles study on competing phases of silicene: Effect of substrate and strain. Physical Review B, 2013, 88, .	3.2	45
26	Self-organized metallic islands on nano-patterned silicon substrate. Applied Physics Letters, 2013, 103, 123117.	3.3	2
27	Mechanisms of parasitic crystallites formation in ZrB ₂ (0001) buffer layer grown on Si(111). Applied Surface Science, 2013, 284, 432-437.	6.1	10
28	Tuning of silicene-substrate interactions with potassium adsorption. Applied Physics Letters, 2013, 102, .	3.3	51
29	Molecular order, charge injection efficiency and the role of intramolecular polar bonds at organic/organic heterointerfaces. Organic Electronics, 2012, 13, 1853-1858.	2.6	5
30	Au-assisted Co silicide island growth on Si(111). Applied Surface Science, 2012, 258, 9675-9679.	6.1	0
31	Experimental Evidence for Epitaxial Silicene on Diboride Thin Films. Physical Review Letters, 2012, 108, 245501.	7.8	1,488
32	Scanning tunneling microscopy investigations of the epitaxial growth of ZrB ₂ on Si(111). Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 779-783.	0.8	8
33	Intermolecular band dispersion in quasi-one-dimensional adenine assemblies. Chemical Communications, 2011, 47, 12349.	4.1	1
34	Surface electronic structure of ZrB ₂ buffer layers for GaN growth on Si wafers. Applied Physics Letters, 2010, 97, .	3.3	36
35	Stacks of Nucleic Acids as Molecular Wires: Direct Measurement of the Intermolecular Band Dispersion in Multilayer Guanine Assemblies. Journal of the American Chemical Society, 2010, 132, 12808-12810.	13.7	8
36	Interface magnetic and optical anisotropy of ultrathin Co films grown on a vicinal Si substrate. Physical Review B, 2009, 80, .	3.2	25

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37	Atomic-Level Control of the Domain Wall Velocity in Ultrathin Magnets by Tuning of Exchange Interactions. <i>Physical Review Letters</i> , 2009, 103, 137202.	7.8	11
38	Metal-rich Au-silicide nanoparticles for use in nanotechnology. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	27
39	Elaboration of self-organized magnetic nanoparticles by selective cobalt silicidation. <i>Applied Surface Science</i> , 2008, 254, 3147-3152.	6.1	12
40	Magnetization Processes in Ultrathin Co Film Grown on Stepped Si(111) Substrate. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2887-2890.	2.1	4
41	Selective functionalization of Si(111) and Ag(110) surfaces for preparation of Co nanostructures. <i>Journal of Physics: Conference Series</i> , 2008, 100, 072002.	0.4	1