

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	Experimental Evidence for Epitaxial Silicene on Diboride Thin Films. <i>Physical Review Letters</i> , 2012, 108, 245501.	7.8	1,488
2	Tuning of silicene-substrate interactions with potassium adsorption. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	51
3	First-principles study on competing phases of silicene: Effect of substrate and strain. <i>Physical Review B</i> , 2013, 88, .	3.2	45
4	Surface electronic structure of ZrB ₂ buffer layers for GaN growth on Si wafers. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	36
5	Band structure of silicene on zirconium diboride (0001) thin-film surface: Convergence of experiment and calculations in the one-Si-atom Brillouin zone. <i>Physical Review B</i> , 2014, 90, .	3.2	35
6	Metal-rich Au-silicide nanoparticles for use in nanotechnology. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	27
7	Interface magnetic and optical anisotropy of ultrathin Co films grown on a vicinal Si substrate. <i>Physical Review B</i> , 2009, 80, .	3.2	25
8	Diverse forms of bonding in two-dimensional Si allotropes: Nematic orbitals in the MoS ₂ structure. <i>Physical Review B</i> , 2014, 90, .	3.2	24
9	Microscopic origin of the π states in epitaxial silicene. <i>Applied Physics Letters</i> , 2014, 104, 021605.	3.3	23
10	Core level excitations – A fingerprint of structural and electronic properties of epitaxial silicene. <i>Journal of Chemical Physics</i> , 2014, 140, 184704.	3.0	22
11	Avoiding critical-point phonon instabilities in two-dimensional materials: The origin of the stripe formation in epitaxial silicene. <i>Physical Review B</i> , 2014, 90, .	3.2	17
12	Single-domain epitaxial silicene on diboride thin films. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	17
13	Van der Waals integration of silicene and hexagonal boron nitride. <i>2D Materials</i> , 2019, 6, 035001.	4.4	17
14	Metallic atomically-thin layered silicon epitaxially grown on silicene/ZrB ₂ . <i>2D Materials</i> , 2017, 4, 021015.	4.4	13
15	Single-particle excitation of core states in epitaxial silicene. <i>Physical Review B</i> , 2017, 95, .	3.2	13
16	Hidden mechanism for embedding the flat bands of Lieb, kagome, and checkerboard lattices in other structures. <i>Physical Review B</i> , 2019, 100, .	3.2	13
17	Elaboration of self-organized magnetic nanoparticles by selective cobalt silicidation. <i>Applied Surface Science</i> , 2008, 254, 3147-3152.	6.1	12
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Insights into the spontaneous formation of silicene sheet on diboride thin films. Applied Physics Letters, 2017, 110, .	3.3	10
21	First-principles study on the stability and electronic structure of monolayer GaSe with trigonal-antiprismatic structure. Physical Review B, 2020, 102, .	3.2	10
22	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
23	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
24	Guided Molecular Assembly on a Locally Reactive 2D Material. Advanced Materials, 2017, 29, 1703929.	21.0	7
25	Atomistic study of GaSe/Ge(111) interface formed through van der Waals epitaxy. Surface and Interface Analysis, 2019, 51, 95-99.	1.8	6
26	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
27	Formation of BN-covered silicene on ZrB ₂ /Si(111) by adsorption of NO and thermal processes. Journal of Chemical Physics, 2020, 153, 064702.	3.0	5
28	Magnetization Processes in Ultrathin Co Film Grown on Stepped Si(111) Substrate. IEEE Transactions on Magnetics, 2008, 44, 2887-2890.	2.1	4
29	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
30	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
31	Self-organized metallic islands on nano-patterned silicon substrate. Applied Physics Letters, 2013, 103, 123117.	3.3	2
32	Formation of h-BN monolayers through nitridation of epitaxial silicene on diboride thin films. Journal of Applied Physics, 2019, 126, .	2.5	2
33	Nanomechanical Properties of Epitaxial Silicene Revealed by Noncontact Atomic Force Microscopy. Advanced Materials Interfaces, 2019, 6, 1801278.	3.7	2
34	Adatom-induced dislocation annihilation in epitaxial silicene. 2D Materials, 2021, 8, 045011.	4.4	2
35	Band engineering in an epitaxial two-dimensional honeycomb Si_6Ge_6 alloy. Physical Review Materials, 2021, 5, .	0.4	1
36	Selective functionalization of Si(111) and Ag(110) surfaces for preparation of Co nanostructures. Journal of Physics: Conference Series, 2008, 100, 072002.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Intermolecular band dispersion in quasi-one-dimensional adenine assemblies. <i>Chemical Communications</i> , 2011, 47, 12349.	4.1	1
38	Epitaxial Silicene: Beyond Silicene on Silver Substrates. <i>Springer Series in Materials Science</i> , 2016, , 243-270.	0.6	1
39	Au-assisted Co silicide island growth on Si(111). <i>Applied Surface Science</i> , 2012, 258, 9675-9679.	6.1	0
40	Silicene: When Silicon Mimics Graphene. , 2018, , 318-331.		0
41	Two-Dimensional Materials: Nanomechanical Properties of Epitaxial Silicene Revealed by Noncontact Atomic Force Microscopy (<i>Adv. Mater. Interfaces</i> 2/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970014.	3.7	0