

Fabien Cheynis

List of Publications by Year in descending order

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53
papers

1,152
citations

430754

18
h-index

395590

33
g-index

53
all docs

53
docs citations

53
times ranked

1258
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Hall resistance standard in graphene devices under relaxed experimental conditions. Nature Nanotechnology, 2015, 10, 965-971.	15.6	162
2	How to control solid state dewetting: A short review. Surface Science Reports, 2016, 71, 391-409.	3.8	161
3	Influence of Polymer-Blend Morphology on Charge Transport and Photocurrent Generation in Donor-Acceptor Polymer Blends. Nano Letters, 2006, 6, 1674-1681.	4.5	95
4	Dynamics of solid thin-film dewetting in the silicon-on-insulator system. New Journal of Physics, 2011, 13, 043017.	1.2	64
5	Dewetting dynamics of silicon-on-insulator thin films. Physical Review B, 2011, 84, .	1.1	62
6	Growth of Si ultrathin films on silver surfaces: Evidence of an Ag(110) reconstruction induced by Si. Physical Review B, 2013, 88, .	1.1	44
7	Growth modes of Fe(110) revisited: a contribution of self-assembly to magnetic materials. Journal of Physics Condensed Matter, 2007, 19, 053001.	0.7	41
8	Dynamics, anisotropy, and stability of silicon-on-insulator dewetting fronts. Physical Review B, 2012, 85, .	1.1	39
9	Self-propelled motion of Au-Si droplets on Si(111) mediated by monoatomic step dissolution. Surface Science, 2015, 632, 1-8.	0.8	33
10	Dynamics and instability of solid-state dewetting. Comptes Rendus Physique, 2013, 14, 578-589.	0.3	28
11	Controlled Switching of Ni-Caps in Flux-Closure Magnetic Dots. Physical Review Letters, 2009, 102, 107201.	2.9	26
12	Tuning the transport properties of graphene films grown by CVD on SiC(0001): Effect of in situ hydrogenation and annealing. Physical Review B, 2014, 89, .	1.1	25
13	Dimensionality Crossover in Magnetism: From Domain Walls (2D) to Vortices (1D). Physical Review Letters, 2010, 104, 127204.	2.9	24
14	Influence of facets on solid state dewetting mechanisms: Comparison between Ge and Si on SiO_2 . Physical Review B, 2013, 88, .	1.1	24
15	In-Plane Si Nanowire Growth Mechanism in Absence of External Si Flux. Nano Letters, 2015, 15, 4788-4792.	4.5	21
16	Surface-dependent scenarios for dissolution-driven motion of growing droplets. Scientific Reports, 2017, 7, 902.	1.6	21
17	Agglomeration dynamics of germanium islands on a silicon oxide substrate: A grazing incidence small-angle x-ray scattering study. Applied Physics Letters, 2013, 102, .	1.5	20
18	2D nanostructure motion on anisotropic surfaces controlled by electromigration. Applied Surface Science, 2019, 469, 463-470.	3.1	19

#	ARTICLE	IF	CITATIONS
19	Thermal instability of silicon-on-insulator thin films measured by low-energy electron microscopy. IOP Conference Series: Materials Science and Engineering, 2010, 12, 012016.	0.3	17
20	Stress effects on solid-state dewetting of nano-thin films. International Journal of Nanotechnology, 2012, 9, 396.	0.1	16
21	Dewetting of patterned solid films: Towards a predictive modelling approach. Applied Physics Letters, 2017, 110, .	1.5	14
22	Combining low-energy electron microscopy and scanning probe microscopy techniques for surface science: Development of a novel sample-holder. Review of Scientific Instruments, 2014, 85, 043705.	0.6	12
23	Shape transition in nano-pits after solid-phase etching of SiO ₂ by Si islands. Applied Physics Letters, 2015, 106, .	1.5	12
24	Catalytically enhanced thermal decomposition of chemically grown silicon oxide layers on Si(001). Applied Physics Letters, 2016, 108, .	1.5	12
25	Surface diffusion of Au on Si(111) studied by nucleation-rate and Ostwald-ripening analysis. Surface Science, 2016, 647, 8-11.	0.8	12
26	Atomic Transport in Au-Ge Droplets: Brownian and Electromigration Dynamics. Physical Review Letters, 2019, 123, 176101.	2.9	12
27	Nonequilibrium diffusion of reactive solid islands. Physical Review B, 2014, 89, .	1.1	11
28	Low thermal budget for Si and SiGe surface preparation for FD-SOI technology. Applied Surface Science, 2016, 371, 436-446.	3.1	11
29	Tunable magnetic properties of arrays of Fe(110) nanowires grown on kinetically grooved W(110) self-organized templates. Journal of Magnetism and Magnetic Materials, 2010, 322, 257-264.	1.0	10
30	X-Ray Diffraction and Raman Spectroscopy Study of Strain in Graphene Films Grown on 6H-SiC(0001) Using Propane-Hydrogen-Argon CVD. Materials Science Forum, 0, 740-742, 117-120.	0.3	10
31	Oxygen-induced inhibition of silicon-on-insulator dewetting. Applied Physics Letters, 2014, 104, .	1.5	9
32	Growth and magnetism of self-organized arrays of Fe(110) wires formed by deposition on kinetically grooved W(110). Surface Science, 2007, 601, 4358-4361.	0.8	8
33	Dynamics of Au-Ge liquid droplets on Ge(111) terraces: Nucleation, growth and dynamic coalescence. Applied Surface Science, 2020, 509, 144667.	3.1	7
34	X-ray photoelectron emission microscopy in combination with x-ray magnetic circular dichroism investigation of size effects on field-induced Néel-cap reversal. Journal of Applied Physics, 2008, 103, 07D915.	1.1	6
35	Asymmetric Hysteresis of Néel Caps in Flux-Closure Magnetic Dots. IEEE Transactions on Magnetics, 2010, 46, 1552-1555.	1.2	6
36	Magnetic properties of self-organized Co dimer nanolines on Si/Ag(110). Beilstein Journal of Nanotechnology, 2015, 6, 777-784.	1.5	6

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37	Interplay between deoxidation and dewetting for ultrathin SOI films. Applied Physics Letters, 2017, 110, .	1.5	6
38	Improvement of etching and cleaning methods for integration of raised source and drain in FD-SOI technologies. Microelectronic Engineering, 2017, 180, 56-64.	1.1	6
39	Shape changes of two-dimensional atomic islands and vacancy clusters diffusing on epitaxial (1Å^{-1}) interfaces under the impact of an external force. Journal of Crystal Growth, 2019, 520, 42-45.	0.7	6
40	2D Manipulation of Nanoobjects by Perpendicular Electric Fields: Implications for Nanofabrication. ACS Applied Nano Materials, 2020, 3, 1118-1122.	2.4	6
41	Micromagnetic study of flux-closure states in Fe dots using quantitative Lorentz microscopy. Ultramicroscopy, 2012, 115, 26-34.	0.8	5
42	Improvement of Boron Doping in SiGe Raised Sources and Drains for FD-SOI Technology by Carbon Incorporation. ECS Transactions, 2016, 75, 29-38.	0.3	5
43	Electric forces on a confined advacancy island. Physical Review B, 2020, 102, .	1.1	5
44	Kinetic Monte Carlo simulations of the diffusion and shape evolution of single-layer clusters on a hexagonal lattice with and without external force. Applied Surface Science, 2021, 552, 149454.	3.1	4
45	Contacting individual Fe(110) dots in a single electron-beam lithography step. Nanotechnology, 2009, 20, 285302.	1.3	2
46	Convenient graphene-based quantum Hall resistance standards. , 2016, , .		2
47	Micromagnetic Modeling on self-assembled iron nanostructures. ESAIM: Proceedings and Surveys, 2008, 22, 118-121.	0.4	1
48	Elastic cost of silicon step rebonding. Physical Review B, 2016, 93, .	1.1	1
49	Spatial inhomogeneity and temporal dynamics of a 2D electron gas in interaction with a 2D adatom gas. Scientific Reports, 2017, 7, 10642.	1.6	1
50	Kinetics and coupled dynamics of dewetting and chemical reaction in Si/ SiO_2 /Si system. Journal of Materials Science, 2020, 55, 16074-16082.	1.7	1
51	Mechanism of droplet motion and in-plane nanowire formation with and without electromigration. Applied Surface Science, 2022, 579, 152015.	3.1	1
52	Electron Microscopy Investigation of Magnetization Process in Thin Foils and Nanostructures. Materials Research Society Symposia Proceedings, 2007, 1026, 1.	0.1	0
53	Magnetic anisotropy of one-dimensional Co nanostructures. Physical Review B, 2020, 102, .	1.1	0