

Fabien Cheynis

List of Publications by Citations

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52
papers

914
citations

16
h-index

29
g-index

53
ext. papers

1,040
ext. citations

4.4
avg, IF

3.94
L-index

#	Paper	IF	Citations
52	How to control solid state dewetting: A short review. <i>Surface Science Reports</i> , 2016 , 71, 391-409	12.9	113
51	Quantum Hall resistance standard in graphene devices under relaxed experimental conditions. <i>Nature Nanotechnology</i> , 2015 , 10, 965-71	28.7	108
50	Influence of polymer-blend morphology on charge transport and photocurrent generation in donor-acceptor polymer blends. <i>Nano Letters</i> , 2006 , 6, 1674-81	11.5	91
49	Dynamics of solid thin-film dewetting in the silicon-on-insulator system. <i>New Journal of Physics</i> , 2011 , 13, 043017	2.9	61
48	Dewetting dynamics of silicon-on-insulator thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	56
47	Dynamics, anisotropy, and stability of silicon-on-insulator dewetting fronts. <i>Physical Review B</i> , 2012 , 85,	3.3	39
46	Growth modes of Fe(110) revisited: a contribution of self-assembly to magnetic materials. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 053001	1.8	38
45	Growth of Si ultrathin films on silver surfaces: Evidence of an Ag(110) reconstruction induced by Si. <i>Physical Review B</i> , 2013 , 88,	3.3	37
44	Self-propelled motion of AuSi droplets on Si(111) mediated by monoatomic step dissolution. <i>Surface Science</i> , 2015 , 632, 1-8	1.8	24
43	Tuning the transport properties of graphene films grown by CVD on SiC(0001): Effect of in situ hydrogenation and annealing. <i>Physical Review B</i> , 2014 , 89,	3.3	23
42	Dimensionality crossover in magnetism: from domain walls (2D) to vortices (1D). <i>Physical Review Letters</i> , 2010 , 104, 127204	7.4	23
41	Controlled switching of NbI caps in flux-closure magnetic dots. <i>Physical Review Letters</i> , 2009 , 102, 107201	7.4	23
40	Influence of facets on solid state dewetting mechanisms: Comparison between Ge and Si on SiO ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	22
39	Dynamics and instability of solid-state dewetting. <i>Comptes Rendus Physique</i> , 2013 , 14, 578-589	1.4	21
38	Agglomeration dynamics of germanium islands on a silicon oxide substrate: A grazing incidence small-angle x-ray scattering study. <i>Applied Physics Letters</i> , 2013 , 102, 161603	3.4	16
37	Thermal instability of silicon-on-insulator thin films measured by low-energy electron microscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 12, 012016	0.4	16
36	In-Plane Si Nanowire Growth Mechanism in Absence of External Si Flux. <i>Nano Letters</i> , 2015 , 15, 4788-92	11.5	15

35	Stress effects on solid-state dewetting of nano-thin films. <i>International Journal of Nanotechnology</i> , 2012 , 9, 396	1.5	14
34	Surface-dependent scenarios for dissolution-driven motion of growing droplets. <i>Scientific Reports</i> , 2017 , 7, 902	4.9	13
33	2D nanostructure motion on anisotropic surfaces controlled by electromigration. <i>Applied Surface Science</i> , 2019 , 469, 463-470	6.7	13
32	Surface diffusion of Au on 3B Si(111)Au studied by nucleation-rate and Ostwald-ripening analysis. <i>Surface Science</i> , 2016 , 647, 8-11	1.8	10
31	Dewetting of patterned solid films: Towards a predictive modelling approach. <i>Applied Physics Letters</i> , 2017 , 110, 263105	3.4	10
30	Combining low-energy electron microscopy and scanning probe microscopy techniques for surface science: development of a novel sample-holder. <i>Review of Scientific Instruments</i> , 2014 , 85, 043705	1.7	10
29	Nonequilibrium diffusion of reactive solid islands. <i>Physical Review B</i> , 2014 , 89,	3.3	10
28	X-Ray Diffraction and Raman Spectroscopy Study of Strain in Graphene Films Grown on 6H-SiC(0001) Using Propane-Hydrogen-Argon CVD. <i>Materials Science Forum</i> , 2013 , 740-742, 117-120	0.4	10
27	Low thermal budget for Si and SiGe surface preparation for FD-SOI technology. <i>Applied Surface Science</i> , 2016 , 371, 436-446	6.7	9
26	Shape transition in nano-pits after solid-phase etching of SiO ₂ by Si islands. <i>Applied Physics Letters</i> , 2015 , 106, 191601	3.4	8
25	Catalytically enhanced thermal decomposition of chemically grown silicon oxide layers on Si(001). <i>Applied Physics Letters</i> , 2016 , 108, 111601	3.4	8
24	Oxygen-induced inhibition of silicon-on-insulator dewetting. <i>Applied Physics Letters</i> , 2014 , 104, 061603	3.4	7
23	Tunable magnetic properties of arrays of Fe(110) nanowires grown on kinetically grooved W(110) self-organized templates. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 257-264	2.8	7
22	Atomic Transport in Au-Ge Droplets: Brownian and Electromigration Dynamics. <i>Physical Review Letters</i> , 2019 , 123, 176101	7.4	6
21	Asymmetric Hysteresis of NBL Caps in Flux-Closure Magnetic Dots. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1552-1555	2	6
20	X-ray photoelectron emission microscopy in combination with x-ray magnetic circular dichroism investigation of size effects on field-induced NBL-cap reversal. <i>Journal of Applied Physics</i> , 2008 , 103, 07D915	2.5	6
19	Growth and magnetism of self-organized arrays of Fe(110) wires formed by deposition on kinetically grooved W(110). <i>Surface Science</i> , 2007 , 601, 4358-4361	1.8	6
18	Magnetic properties of self-organized Co dimer nanolines on Si/Ag(110). <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 777-84	3	5

17	Interplay between deoxidation and dewetting for ultrathin SOI films. <i>Applied Physics Letters</i> , 2017 , 110, 161601	3.4	4
16	Micromagnetic study of flux-closure states in Fe dots using quantitative Lorentz microscopy. <i>Ultramicroscopy</i> , 2012 , 115, 26-34	3.1	4
15	Improvement of Boron Doping in SiGe Raised Sources and Drains for FD-SOI Technology by Carbon Incorporation. <i>ECS Transactions</i> , 2016 , 75, 29-38	1	4
14	Improvement of etching and cleaning methods for integration of raised source and drain in FD-SOI technologies. <i>Microelectronic Engineering</i> , 2017 , 180, 56-64	2.5	3
13	Shape changes of two-dimensional atomic islands and vacancy clusters diffusing on epitaxial (1 1 1) interfaces under the impact of an external force. <i>Journal of Crystal Growth</i> , 2019 , 520, 42-45	1.6	3
12	2D Manipulation of Nanoobjects by Perpendicular Electric Fields: Implications for Nanofabrication. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1118-1122	5.6	3
11	Electric forces on a confined advacancy island. <i>Physical Review B</i> , 2020 , 102,	3.3	2
10	Contacting individual Fe(110) dots in a single electron-beam lithography step. <i>Nanotechnology</i> , 2009 , 20, 285302	3.4	2
9	Dynamics of Au-Ge liquid droplets on Ge(1'1'1) terraces: Nucleation, growth and dynamic coalescence. <i>Applied Surface Science</i> , 2020 , 509, 144667	6.7	2
8	Elastic cost of silicon step rebonding. <i>Physical Review B</i> , 2016 , 93,	3.3	1
7	Kinetic Monte Carlo simulations of the diffusion and shape evolution of single-layer clusters on a hexagonal lattice with and without external force. <i>Applied Surface Science</i> , 2021 , 552, 149454	6.7	1
6	Convenient graphene-based quantum Hall resistance standards 2016 ,		1
5	Spatial inhomogeneity and temporal dynamics of a 2D electron gas in interaction with a 2D adatom gas. <i>Scientific Reports</i> , 2017 , 7, 10642	4.9	0
4	Mechanism of droplet motion and in-plane nanowire formation with and without electromigration. <i>Applied Surface Science</i> , 2022 , 579, 152015	6.7	0
3	Micromagnetic Modeling on self-assembled iron nanostructures. <i>ESAIM: Proceedings and Surveys</i> , 2008 , 22, 118-121		
2	Electron Microscopy Investigation of Magnetization Process in Thin Foils and Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1026, 1		
1	Kinetics and coupled dynamics of dewetting and chemical reaction in Si/(hbox {SiO}_2)/Si system. <i>Journal of Materials Science</i> , 2020 , 55, 16074-16082	4.3	