

Javier Munoz-Garcia

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,179
citations

393982

19
h-index

377514

34
g-index

38
all docs

38
docs citations

38
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-organized nanopatterning of silicon surfaces by ion beam sputtering. <i>Materials Science and Engineering Reports</i> , 2014, 86, 1-44.	14.8	142
2	Nonlinear Ripple Dynamics on Amorphous Surfaces Patterned by Ion Beam Sputtering. <i>Physical Review Letters</i> , 2006, 96, 086101.	2.9	140
3	Stress-induced solid flow drives surface nanopatterning of silicon by ion-beam irradiation. <i>Physical Review B</i> , 2012, 86, .	1.1	92
4	Coupling of morphology to surface transport in ion-beam irradiated surfaces: Oblique incidence. <i>Physical Review B</i> , 2008, 78, .	1.1	74
5	Observation and Modeling of Interrupted Pattern Coarsening: Surface Nanostructuring by Ion Erosion. <i>Physical Review Letters</i> , 2010, 104, 026101.	2.9	54
6	Order enhancement and coarsening of self-organized silicon nanodot patterns induced by ion-beam sputtering. <i>Applied Physics Letters</i> , 2006, 89, 233101.	1.5	53
7	Nanoscale pattern formation at surfaces under ion-beam sputtering: A perspective from continuum models. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 894-900.	0.6	49
8	Self-Organized Surface Nanopatterning by Ion Beam Sputtering. , 2009, , 323-398.		46
9	Influence of collision cascade statistics on pattern formation of ion-sputtered surfaces. <i>Physical Review B</i> , 2005, 71, .	1.1	44
10	Nonuniversality due to inhomogeneous stress in semiconductor surface nanopatterning by low-energy ion-beam irradiation. <i>Physical Review B</i> , 2015, 91, .	1.1	44
11	Formation and maintenance of nitrogen-fixing cell patterns in filamentous cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6218-6223.	3.3	40
12	Short-range stationary patterns and long-range disorder in an evolution equation for one-dimensional interfaces. <i>Physical Review E</i> , 2006, 74, 050103.	0.8	36
13	Positional Information Generated by Spatially Distributed Signaling Cascades. <i>PLoS Computational Biology</i> , 2009, 5, e1000330.	1.5	36
14	Switches, Excitable Responses and Oscillations in the Ring1B/Bmi1 Ubiquitination System. <i>PLoS Computational Biology</i> , 2011, 7, e1002317.	1.5	33
15	Coupling of morphology to surface transport in ion-beam-irradiated surfaces: normal incidence and rotating targets. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 224020.	0.7	32
16	Universal non-equilibrium phenomena at submicrometric surfaces and interfaces. <i>European Physical Journal: Special Topics</i> , 2007, 146, 427-441.	1.2	28
17	Signalling over a distance: gradient patterns and phosphorylation waves within single cells. <i>Biochemical Society Transactions</i> , 2010, 38, 1235-1241.	1.6	24
18	Independence of interrupted coarsening on initial system order: ion-beam nanopatterning of amorphous versus crystalline silicon targets. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 375302.	0.7	22

#	ARTICLE	IF	CITATIONS
19	Formation of Intracellular Concentration Landscapes by Multisite Protein Modification. <i>Biophysical Journal</i> , 2010, 99, 59-66.	0.2	21
20	Stress-driven nonlinear dynamics of ion-induced surface nanopatterns. <i>Physical Review B</i> , 2019, 100, .	1.1	21
21	Role of nonlinearities and initial prepatterned surfaces in nanobead formation by ion-beam bombardment of Au(001): Experiments and theory. <i>Physical Review B</i> , 2013, 87, .	1.1	19
22	Generic equations for pattern formation in evolving interfaces. <i>New Journal of Physics</i> , 2007, 9, 102-102.	1.2	18
23	Transcript degradation and noise of small RNA-controlled genes in a switch activated network in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2016, 44, 6707-6720.	6.5	18
24	Ion-beam nanopatterning of silicon surfaces under codeposition of non-silicide-forming impurities. <i>Physical Review B</i> , 2016, 93, .	1.1	16
25	Nonuniversality of front fluctuations for compact colonies of nonmotile bacteria. <i>Physical Review E</i> , 2018, 98, 012407.	0.8	14
26	Ion damage overrides structural disorder in silicon surface nanopatterning by low-energy ion beam sputtering. <i>Europhysics Letters</i> , 2015, 109, 48003.	0.7	13
27	Order improvement of surface nanopatterns via substrate rocking under ion bombardment: Experiments and nonlinear models. <i>Physical Review B</i> , 2020, 102, .	1.1	10
28	Symmetry of surface nanopatterns induced by ion-beam sputtering: Role of anisotropic surface diffusion. <i>Physical Review B</i> , 2016, 93, .	1.1	9
29	Nutrient exposure of chemotactic organisms in small-scale turbulent flows. <i>New Journal of Physics</i> , 2010, 12, 103043.	1.2	7
30	Stress vs sputtering effects in the propagation of surface ripples produced by ion-beam sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 365, 13-16.	0.6	7
31	Concurrent segregation and erosion effects in medium-energy iron beam patterning of silicon surfaces. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 274001.	0.7	7
32	Nanopatterning of rotating highly oriented pyrolytic graphite (0001) surfaces by ion beam irradiation: Experiments and modeling. <i>Physical Review B</i> , 2022, 105, .	1.1	4
33	Interplay between Morphology and Surface Transport in Nanopatterns Produced by Ion-Beam Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1059, 1.	0.1	2
34	Aggregation of chemotactic organisms in a differential flow. <i>Physical Review E</i> , 2009, 80, 061902.	0.8	2
35	Energy dependence of the ripple wavelength for ion-beam sputtering of silicon: Experiments and theory. , 2013, , .		1
36	Special issue on surfaces patterned by ion sputtering. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 450301.	0.7	1

#	ARTICLE	IF	CITATIONS
37	Integrating Multiple Signals into Cell Decisions by Networks of Protein Modification Cycles. Biophysical Journal, 2011, 101, 1590-1596.	0.2	0