Javier Munoz-Garcia

List of Publications by Year
in descending order

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37 papers	1,179 citations	394421 19 h-index	377865 34 g-index
38 all docs	38 docs citations	38 times ranked	809 citing authors

#	Article	IF	Citations
1	Nanopatterning of rotating highly oriented pyrolytic graphite (0001) surfaces by ion beam irradiation: Experiments and modeling. Physical Review B, 2022, 105, .	3.2	4
2	Order improvement of surface nanopatterns via substrate rocking under ion bombardment: Experiments and nonlinear models. Physical Review B, 2020, 102, .	3.2	10
3	Stress-driven nonlinear dynamics of ion-induced surface nanopatterns. Physical Review B, 2019, 100, .	3.2	21
4	Special issue on surfaces patterned by ion sputtering. Journal of Physics Condensed Matter, 2018, 30, 450301.	1.8	1
5	Nonuniversality of front fluctuations for compact colonies of nonmotile bacteria. Physical Review E, 2018, 98, 012407.	2.1	14
6	Concurrent segregation and erosion effects in medium-energy iron beam patterning of silicon surfaces. Journal of Physics Condensed Matter, 2018, 30, 274001.	1.8	7
7	Formation and maintenance of nitrogen-fixing cell patterns in filamentous cyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6218-6223.	7.1	40
8	Symmetry of surface nanopatterns induced by ion-beam sputtering: Role of anisotropic surface diffusion. Physical Review B, 2016, 93, .	3.2	9
9	Ion-beam nanopatterning of silicon surfaces under codeposition of non-silicide-forming impurities. Physical Review B, 2016, 93, .	3.2	16
10	Transcript degradation and noise of small RNA-controlled genes in a switch activated network inEscherichia coli. Nucleic Acids Research, 2016, 44, 6707-6720.	14.5	18
11	Nonuniversality due to inhomogeneous stress in semiconductor surface nanopatterning by low-energy ion-beam irradiation. Physical Review B, 2015, 91, .	3.2	44
12	Ion damage overrides structural disorder in silicon surface nanopatterning by low-energy ion beam sputtering. Europhysics Letters, 2015, 109, 48003.	2.0	13
13	Stress vs sputtering effects in the propagation of surface ripples produced by ion-beam sputtering. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 13-16.	1.4	7
14	Self-organized nanopatterning of silicon surfaces by ion beam sputtering. Materials Science and Engineering Reports, 2014, 86, 1-44.	31.8	142
15	Role of nonlinearities and initial prepatterned surfaces in nanobead formation by ion-beam bombardment of Au(001): Experiments and theory. Physical Review B, 2013, 87, .	3.2	19
16	Energy dependence of the ripple wavelength for ion-beam sputtering of silicon: Experiments and theory. , 2013, , .		1
17	Independence of interrupted coarsening on initial system order: ion-beam nanopatterning of amorphous versus crystalline silicon targets. Journal of Physics Condensed Matter, 2012, 24, 375302.	1.8	22
18	Stress-induced solid flow drives surface nanopatterning of silicon by ion-beam irradiation. Physical Review B, 2012, 86, .	3.2	92

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19	Integrating Multiple Signals into Cell Decisions by Networks of Protein Modification Cycles. Biophysical Journal, 2011, 101, 1590-1596.	0.5	0
20	Nanoscale pattern formation at surfaces under ion-beam sputtering: A perspective from continuum models. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 894-900.	1.4	49
21	Switches, Excitable Responses and Oscillations in the Ring1B/Bmi1 Ubiquitination System. PLoS Computational Biology, 2011, 7, e1002317.	3.2	33
22	Nutrient exposure of chemotactic organisms in small-scale turbulent flows. New Journal of Physics, 2010, 12, 103043.	2.9	7
23	Formation of Intracellular Concentration Landscapes by Multisite Protein Modification. Biophysical Journal, 2010, 99, 59-66.	0.5	21
24	Signalling over a distance: gradient patterns and phosphorylation waves within single cells. Biochemical Society Transactions, 2010, 38, 1235-1241.	3.4	24
25	Observation and Modeling of Interrupted Pattern Coarsening: Surface Nanostructuring by Ion Erosion. Physical Review Letters, 2010, 104, 026101.	7.8	54
26	Aggregation of chemotactic organisms in a differential flow. Physical Review E, 2009, 80, 061902.	2.1	2
27	Coupling of morphology to surface transport in ion-beam-irradiated surfaces: normal incidence and rotating targets. Journal of Physics Condensed Matter, 2009, 21, 224020.	1.8	32
28	Positional Information Generated by Spatially Distributed Signaling Cascades. PLoS Computational Biology, 2009, 5, e1000330.	3.2	36
29	Self-Organized Surface Nanopatterning by Ion Beam Sputtering. , 2009, , 323-398.		46
30	Coupling of morphology to surface transport in ion-beam irradiated surfaces: Oblique incidence. Physical Review B, 2008, 78, .	3.2	74
31	Interplay between Morphology and Surface Transport in Nanopatterns Produced by Ion-Beam Sputtering. Materials Research Society Symposia Proceedings, 2007, 1059, 1.	0.1	2
32	Generic equations for pattern formation in evolving interfaces. New Journal of Physics, 2007, 9, 102-102.	2.9	18
33	Universal non-equilibrium phenomena at submicrometric surfaces and interfaces. European Physical Journal: Special Topics, 2007, 146, 427-441.	2.6	28
34	Nonlinear Ripple Dynamics on Amorphous Surfaces Patterned by Ion Beam Sputtering. Physical Review Letters, 2006, 96, 086101.	7.8	140
35	Order enhancement and coarsening of self-organized silicon nanodot patterns induced by ion-beam sputtering. Applied Physics Letters, 2006, 89, 233101.	3.3	53
36	Short-range stationary patterns and long-range disorder in an evolution equation for one-dimensional interfaces. Physical Review E, 2006, 74, 050103.	2.1	36

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37	Influence of collision cascade statistics on pattern formation of ion-sputtered surfaces. Physical Review B, 2005, 71, .	3.2	44