Javier Munoz-Garcia

List of Publications by Citations

35 papers	989 citations	18 h-index	31 g-index
38 ext. papers	1,102 ext. citations	4.5 avg, IF	4.12 L-index

#	Paper	IF	Citations
35	Nonlinear ripple dynamics on amorphous surfaces patterned by ion beam sputtering. *Physical Review Letters*, **2006**, 96, 086101	7.4	125
34	Self-organized nanopatterning of silicon surfaces by ion beam sputtering. *Materials Science and Engineering Reports*, **2014**, 86, 1-44	30.9	112
33	Stress-induced solid flow drives surface nanopatterning of silicon by ion-beam irradiation. *Physical Review B*, **2012**, 86,	3.3	83
32	Coupling of morphology to surface transport in ion-beam irradiated surfaces: Oblique incidence. *Physical Review B*, **2008**, 78,	3.3	66
31	Observation and modeling of interrupted pattern coarsening: surface nanostructuring by ion erosion. *Physical Review Letters*, **2010**, 104, 026101	7.4	51
30	Order enhancement and coarsening of self-organized silicon nanodot patterns induced by ion-beam sputtering. *Applied Physics Letters*, **2006**, 89, 233101	3.4	49
29	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	1.2	47
28	Influence of collision cascade statistics on pattern formation of ion-sputtered surfaces. *Physical Review B*, **2005**, 71,	3.3	40
27	Nonuniversality due to inhomogeneous stress in semiconductor surface nanopatterning by low-energy ion-beam irradiation. *Physical Review B*, **2015**, 91,	3.3	36
26	Self-Organized Surface Nanopatterning by Ion Beam Sputtering **2009**, 323-398		32
25	Positional information generated by spatially distributed signaling cascades. *PLoS Computational Biology*, **2009**, 5, e1000330	5	31
24	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, 6218-23	11.5	31
23	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	28
22	Switches, excitable responses and oscillations in the Ring1B/Bmi1 ubiquitination system. *PLoS Computational Biology*, **2011**, 7, e1002317	5	28
21	Short-range stationary patterns and long-range disorder in an evolution equation for one-dimensional interfaces. *Physical Review E*, **2006**, 74, 050103	2.4	26
20	Universal non-equilibrium phenomena at submicrometric surfaces and interfaces. *European Physical Journal: Special Topics*, **2007**, 146, 427-441	2.3	25
19	Signalling over a distance: gradient patterns and phosphorylation waves within single cells. *Biochemical Society Transactions*, **2010**, 38, 1235-41	5.1	21

18	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	20
17	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,	3.3	18
16	Transcript degradation and noise of small RNA-controlled genes in a switch activated network in Escherichia coli. *Nucleic Acids Research*, **2016**, 44, 6707-20	20.1	15
15	Generic equations for pattern formation in evolving interfaces. *New Journal of Physics*, **2007**, 9, 102-102	2.9	15
14	Formation of intracellular concentration landscapes by multisite protein modification. *Biophysical Journal*, **2010**, 99, 59-66	2.9	14
13	Stress-driven nonlinear dynamics of ion-induced surface nanopatterns. *Physical Review B*, **2019**, 100,	3.3	14
12	Ion-beam nanopatterning of silicon surfaces under codeposition of non-silicide-forming impurities. *Physical Review B*, **2016**, 93,	3.3	12
11	Ion damage overrides structural disorder in silicon surface nanopatterning by low-energy ion beam sputtering. *Europhysics Letters*, **2015**, 109, 48003	1.6	11
10	Symmetry of surface nanopatterns induced by ion-beam sputtering: Role of anisotropic surface diffusion. *Physical Review B*, **2016**, 93,	3.3	8
9	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	1.2	6
8	Nonuniversality of front fluctuations for compact colonies of nonmotile bacteria. *Physical Review E*, **2018**, 98, 012407	2.4	6
7	Concurrent segregation and erosion effects in medium-energy iron beam patterning of silicon surfaces. *Journal of Physics Condensed Matter*, **2018**, 30, 274001	1.8	5
6	Nutrient exposure of chemotactic organisms in small-scale turbulent flows. *New Journal of Physics*, **2010**, 12, 103043	2.9	5
5	Order improvement of surface nanopatterns via substrate rocking under ion bombardment: Experiments and nonlinear models. *Physical Review B*, **2020**, 102,	3.3	4
4	Aggregation of chemotactic organisms in a differential flow. *Physical Review E*, **2009**, 80, 061902	2.4	2
3	Interplay between Morphology and Surface Transport in Nanopatterns Produced by Ion-Beam Sputtering. *Materials Research Society Symposia Proceedings*, **2007**, 1059, 1		1
2	Special issue on surfaces patterned by ion sputtering. *Journal of Physics Condensed Matter*, **2018**, 30, 450301	1.8	1
1	Integrating multiple signals into cell decisions by networks of protein modification cycles. *Biophysical Journal*, **2011**, 101, 1590-6	2.9	