

# Thomas Michely

## List of Publications by Year in descending order

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30  
papers

2,708  
citations

331670

21  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Ir Cluster Lattice on a Graphene Moiré on Ir(111). <i>Physical Review Letters</i> , 2006, 97, 215501.	7.8	533
2	Islands, Mounds and Atoms. <i>Springer Series in Surface Sciences</i> , 2004, , .	0.3	318
3	Growth of graphene on Ir(111). <i>New Journal of Physics</i> , 2009, 11, 039801.	2.9	309
4	Growth of graphene on Ir(111). <i>New Journal of Physics</i> , 2009, 11, 023006.	2.9	249
5	Temperature dependence of the sputtering morphology of Pt(111). <i>Surface Science</i> , 1991, 256, 217-226.	1.9	203
6	Island nucleation in the presence of step-edge barriers: Theory and applications. <i>Physical Review B</i> , 2000, 61, 14037-14046.	3.2	151
7	Is keV ion-induced pattern formation on Si(001) caused by metal impurities?. <i>Nanotechnology</i> , 2010, 21, 085301.	2.6	116
8	Structure and Growth of Hexagonal Boron Nitride on Ir(111). <i>ACS Nano</i> , 2016, 10, 11012-11026.	14.6	93
9	Generation and nucleation of adatoms during ion bombardment of Pt(111). <i>Physical Review B</i> , 1991, 44, 8411-8414.	3.2	90
10	Ion Impacts on Graphene/Ir(111): Interface Channeling, Vacancy Funnels, and a Nanomesh. <i>Nano Letters</i> , 2013, 13, 1948-1955.	9.1	81
11	Morphological effects induced by the formation of a Pt-adatom lattice gas on Pt(111). <i>Surface Science</i> , 1992, 272, 204-210.	1.9	68
12	Phenomenology of iron-assisted ion beam pattern formation on Si(001). <i>New Journal of Physics</i> , 2011, 13, 073017.	2.9	60
13	Temperature dependent morphological evolution of Pt(111) by ion erosion: destabilization, phase coexistence and coarsening. <i>Surface Science</i> , 2001, 486, 103-135.	1.9	58
14	Evolution of ion beam induced patterns on Si(001). <i>Physical Review B</i> , 2014, 89, .	3.2	52
15	Mechanisms of pattern formation in grazing-incidence ion bombardment of Pt(111). <i>Physical Review B</i> , 2006, 73, .	3.2	47
16	Step Edge Diffusion and Step Atom Detachment in Surface Evolution: Ion Erosion of Pt(111). <i>Physical Review Letters</i> , 2001, 86, 2589-2592.	7.8	40
17	Silicide induced ion beam patterning of Si(001). <i>Nanotechnology</i> , 2014, 25, 115303.	2.6	40
18	Xe irradiation of graphene on Ir(111): From trapping to blistering. <i>Physical Review B</i> , 2015, 92, .	3.2	32

#	ARTICLE	IF	CITATIONS
19	Segregation-Enhanced Epitaxy of Borophene on Ir(111) by Thermal Decomposition of Borazine. ACS Nano, 2021, 15, 7421-7429.	14.6	32
20	A Monolayer of Hexagonal Boron Nitride on Ir(111) as a Template for Cluster Superlattices. ACS Nano, 2018, 12, 6871-6880.	14.6	31
21	Step-edge sputtering through grazing incidence ions investigated by scanning tunneling microscopy and molecular dynamics simulations. Physical Review B, 2008, 77, .	3.2	26
22	Temperature-Controlled Rotational Epitaxy of Graphene. Nano Letters, 2019, 19, 4594-4600.	9.1	19
23	Annealing of ion-irradiated hexagonal boron nitride on Ir(111). Physical Review B, 2017, 96, .	3.2	17
24	Rapid Coarsening of Ion Beam Ripple Patterns by Defect Annihilation. Physical Review Letters, 2009, 102, 146103.	7.8	14
25	Hydrogen Solubility and Atomic Structure of Graphene Supported Pd Nanoclusters. ACS Nano, 2021, 15, 15771-15780.	14.6	9
26	Cluster Superlattice Membranes. ACS Nano, 2020, 14, 13629-13637.	14.6	6
27	Amorphous to crystalline phase transition: Onset of pattern formation during ion erosion of Si(001). Physical Review B, 2016, 93, .	3.2	5
28	Blister-free ion beam patterning of supported graphene. Nanotechnology, 2017, 28, 055304.	2.6	5
29	Suppression of wrinkle formation in graphene on Ir(111) by high-temperature, low-energy ion irradiation. Nanotechnology, 2019, 30, 085304.	2.6	4
30	Size-limited high-density nanopore formation in two-dimensional moiré materials. Physical Review B, 2022, 105, .	3.2	0