

# Mikhail Khenner

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5458103/mikhail-khenner-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46  
papers

466  
citations

13  
h-index

20  
g-index

46  
ext. papers

539  
ext. citations

2.6  
avg, IF

3.91  
L-index

#	Paper	IF	Citations
46	Vacancy-mediated suppression of phase separation in a model two-dimensional surface alloy by the difference of the atomic jump rates. <i>Surface Science</i> , <b>2022</b> , 122100	1.8	
45	Modeling evolution of composition patterns in a binary surface alloy. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2021</b> , 29, 015002	2	1
44	Directed long-range transport of a nearly pure component atom clusters by the electromigration of a binary surface alloy. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	2
43	A mesoscopic model of nanoclusters self-assembly on a graphene Moiré. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 124301	2.5	1
42	Electromigration-guided composition patterns in thin alloy films: A computational study. <i>Surface Science</i> , <b>2020</b> , 698, 121611	1.8	3
41	Morphology and structure of Pb thin films grown on Si(111) by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	1
40	An alternate numerical treatment for nonlinear PDE models of piezoelectric laminates <b>2019</b> ,		1
39	Modeling solid-state dewetting of a single-crystal binary alloy thin films. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 034302	2.5	2
38	Kinetics of nanoring formation on surfaces of stressed thin films. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	3
37	Morphologies, metastability, and coarsening of quantum nanoislands on the surfaces of the annealed Ag(110) and Pb(111) thin films. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 174302	2.5	2
36	Interplay of quantum size effect, anisotropy and surface stress shapes the instability of thin metal films. <i>Journal of Engineering Mathematics</i> , <b>2017</b> , 104, 77-92	1.2	2
35	Height transitions, shape evolution and coarsening of equilibrating quantum nanoislands. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2017</b> , 25, 085003	2	1
34	Model for computing kinetics of the graphene edge epitaxial growth on copper. <i>Physical Review E</i> , <b>2016</b> , 93, 062806	2.4	
33	Mathematical modeling of a surface morphological instability of a thin monocrystal film in a strong electric field. <i>Involve</i> , <b>2016</b> , 9, 623-638	0.1	
32	Marangoni convection in a thin film on a vertically oscillating plate. <i>Physical Review E</i> , <b>2015</b> , 92, 013019	2.4	8
31	Electromigration-driven Evolution of the Surface Morphology and Composition for a Bi-Component Solid Film. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2015</b> , 10, 83-96	3	2
30	Step Growth and Meandering in a Precursor-Mediated Epitaxy with Anisotropic Attachment Kinetics and Terrace Diffusion. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2015</b> , 10, 97-110	3	

29	Analysis of a combined influence of substrate wetting and surface electromigration on a thin film stability and dynamical morphologies. <i>Comptes Rendus Physique</i> , <b>2013</b> , 14, 607-618	1.4	5
28	Long-wave model for strongly anisotropic growth of a crystal step. <i>Physical Review E</i> , <b>2013</b> , 88, 022402	2.4	6
27	Pulsed laser de wetting of Au films: Experiments and modeling of nanoscale behavior. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 1715-1723	2.5	28
26	Long-wave Marangoni convection in a thin film heated from below. <i>Physical Review E</i> , <b>2012</b> , 85, 016328	2.4	22
25	Controlling Nanoparticles Formation in Molten Metallic Bilayers by Pulsed-Laser Interference Heating. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2012</b> , 7, 20-38	3	3
24	Stability of a strongly anisotropic thin epitaxial film in a wetting interaction with elastic substrate. <i>Europhysics Letters</i> , <b>2011</b> , 93, 26001	1.6	5
23	Formation of organized nanostructures from unstable bilayers of thin metallic liquids. <i>Physics of Fluids</i> , <b>2011</b> , 23, 122105	4.4	19
22	Oscillatory and monotonic modes of long-wave Marangoni convection in a thin film. <i>Physical Review E</i> , <b>2010</b> , 82, 025302	2.4	13
21	Thickness-dependent spontaneous dewetting morphology of ultrathin Ag films. <i>Nanotechnology</i> , <b>2010</b> , 21, 155601	3.4	90
20	A tangent-plane marker-particle method for the computation of three-dimensional solid surfaces evolving by surface diffusion on a substrate. <i>Journal of Computational Physics</i> , <b>2010</b> , 229, 813-827	4.1	12
19	Thermocapillary effects in driven dewetting and self assembly of pulsed-laser-irradiated metallic films. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	21
18	Influence of a longitudinal and tilted vibration on stability and dewetting of a liquid film. <i>Physical Review E</i> , <b>2009</b> , 79, 051603	2.4	22
17	Comparative Study of a Solid Film Dewetting in an Attractive Substrate Potentials with the Exponential and the Algebraic Decay. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2008</b> , 3, 16-29	3	3
16	Morphologies and kinetics of a dewetting ultrathin solid film. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	7
15	Dewetting of an ultrathin solid film on a lattice-matched or amorphous substrate. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	11
14	Enhanced stability of a dewetting thin liquid film in a single-frequency vibration field. <i>Physical Review E</i> , <b>2008</b> , 77, 036320	2.4	24
13	Tailoring of crystal surface morphology by induced spatiotemporal oscillations of temperature. <i>Physical Review E</i> , <b>2007</b> , 75, 021605	2.4	3
12	Temperature of spatially modulated surface of solid film heated by repetitive laser pulses. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 4196-4201	3	10

11	Motion of contact line of a crystal over the edge of solid mask in epitaxial lateral overgrowth. <i>Computational Materials Science</i> , <b>2005</b> , 32, 203-216	3.2	3
10	Numerical simulation of liquid phase electro-epitaxial selective area growth. <i>Journal of Crystal Growth</i> , <b>2005</b> , 279, 213-228	1.6	2
9	Influence of pulsed laser heating on morphological relaxation of surface ripples. <i>Physical Review E</i> , <b>2005</b> , 72, 011604	2.4	3
8	Oscillatory Temperature-driven Morphological Relaxation of Surface Ripple sing Weak Pulsed Laser. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 890, 1		
7	Enhancement of epitaxial lateral overgrowth by vapor-phase diffusion. <i>International Journal of Engineering Science</i> , <b>2004</b> , 42, 1439-1457	5.7	3
6	Computation of the material indicator function near the contact line (in Tryggvason's method). <i>Journal of Computational Physics</i> , <b>2004</b> , 200, 1-7	4.1	8
5	A model for isotropic crystal growth from vapor on a patterned substrate. <i>Journal of Crystal Growth</i> , <b>2002</b> , 235, 425-438	1.6	13
4	A model for anisotropic epitaxial lateral overgrowth. <i>Journal of Crystal Growth</i> , <b>2002</b> , 241, 330-346	1.6	16
3	Numerical Simulation of Grain-Boundary Grooving by Level Set Method. <i>Journal of Computational Physics</i> , <b>2001</b> , 170, 764-784	4.1	34
2	Level set modeling of transient electromigration grooving. <i>Computational Materials Science</i> , <b>2001</b> , 20, 235-250	3.2	13
1	Stability of plane-parallel vibrational flow in a two-layer system. <i>European Journal of Mechanics, B/Fluids</i> , <b>1999</b> , 18, 1085-1101	2.4	38