

# Mikhail Khenner

## List of Publications by Citations

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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	Thickness-dependent spontaneous dewetting morphology of ultrathin Ag films. <i>Nanotechnology</i> , <b>2010</b> , 21, 155601	3.4	90
45	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
44	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
43	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
42	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
41	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
40	Long-wave Marangoni convection in a thin film heated from below. <i>Physical Review E</i> , <b>2012</b> , 85, 016328	2.4	22
39	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
38	Formation of organized nanostructures from unstable bilayers of thin metallic liquids. <i>Physics of Fluids</i> , <b>2011</b> , 23, 122105	4.4	19
37	A model for anisotropic epitaxial lateral overgrowth. <i>Journal of Crystal Growth</i> , <b>2002</b> , 241, 330-346	1.6	16
36	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
35	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
34	Level set modeling of transient electromigration grooving. <i>Computational Materials Science</i> , <b>2001</b> , 20, 235-250	3.2	13
33	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
32	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
31	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
30	Marangoni convection in a thin film on a vertically oscillating plate. <i>Physical Review E</i> , <b>2015</b> , 92, 013019	2.4	8

29	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
28	Morphologies and kinetics of a dewetting ultrathin solid film. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	7
27	Long-wave model for strongly anisotropic growth of a crystal step. <i>Physical Review E</i> , <b>2013</b> , 88, 022402	2.4	6
26	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
25	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
24	Electromigration-guided composition patterns in thin alloy films: A computational study. <i>Surface Science</i> , <b>2020</b> , 698, 121611	1.8	3
23	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
22	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
21	Tailoring of crystal surface morphology by induced spatiotemporal oscillations of temperature. <i>Physical Review E</i> , <b>2007</b> , 75, 021605	2.4	3
20	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
19	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
18	Influence of pulsed laser heating on morphological relaxation of surface ripples. <i>Physical Review E</i> , <b>2005</b> , 72, 011604	2.4	3
17	Kinetics of nanoring formation on surfaces of stressed thin films. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	3
16	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
15	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
14	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
13	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
12	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

11	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
10	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
9	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
8	An alternate numerical treatment for nonlinear PDE models of piezoelectric laminates <b>2019</b> ,		1
7	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
6	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
5	Model for computing kinetics of the graphene edge epitaxial growth on copper. <i>Physical Review E</i> , <b>2016</b> , 93, 062806	2.4	
4	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	
3	Oscillatory Temperature-driven Morphological Relaxation of Surface Ripple sing Weak Pulsed Laser. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 890, 1		
2	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	
1	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	