

# Mikhail Khenner

## List of Publications by Year in descending order

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46  
papers

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citations

623188

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642321

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docs citations

46  
times ranked

414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thickness-dependent spontaneous dewetting morphology of ultrathin Ag films. <i>Nanotechnology</i> , 2010, 21, 155601.	1.3	103
2	Stability of plane-parallel vibrational flow in a two-layer system. <i>European Journal of Mechanics, B/Fluids</i> , 1999, 18, 1085-1101.	1.2	48
3	Pulsed laser dewetting of Au films: Experiments and modeling of nanoscale behavior. <i>Journal of Materials Research</i> , 2013, 28, 1715-1723.	1.2	39
4	Numerical Simulation of Grain-Boundary Grooving by Level Set Method. <i>Journal of Computational Physics</i> , 2001, 170, 764-784.	1.9	38
5	Enhanced stability of a dewetting thin liquid film in a single-frequency vibration field. <i>Physical Review E</i> , 2008, 77, 036320.	0.8	32
6	Long-wave Marangoni convection in a thin film heated from below. <i>Physical Review E</i> , 2012, 85, 016328.	0.8	32
7	Influence of a longitudinal and tilted vibration on stability and dewetting of a liquid film. <i>Physical Review E</i> , 2009, 79, 051603.	0.8	28
8	Thermocapillary effects in driven dewetting and self assembly of pulsed-laser-irradiated metallic films. <i>Physical Review B</i> , 2009, 80, .	1.1	25
9	Formation of organized nanostructures from unstable bilayers of thin metallic liquids. <i>Physics of Fluids</i> , 2011, 23, .	1.6	23
10	A model for anisotropic epitaxial lateral overgrowth. <i>Journal of Crystal Growth</i> , 2002, 241, 330-346.	0.7	19
11	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> , 2010, 229, 813-827.	1.9	17
12	Oscillatory and monotonic modes of long-wave Marangoni convection in a thin film. <i>Physical Review E</i> , 2010, 82, 025302.	0.8	17
13	Level set modeling of transient electromigration grooving. <i>Computational Materials Science</i> , 2001, 20, 235-250.	1.4	16
14	A model for isotropic crystal growth from vapor on a patterned substrate. <i>Journal of Crystal Growth</i> , 2002, 235, 425-438.	0.7	16
15	Marangoni convection in a thin film on a vertically oscillating plate. <i>Physical Review E</i> , 2015, 92, 013019.	0.8	13
16	Dewetting of an ultrathin solid film on a lattice-matched or amorphous substrate. <i>Physical Review B</i> , 2008, 77, .	1.1	12
17	Computation of the material indicator function near the contact line (in Tryggvason's method). <i>Journal of Computational Physics</i> , 2004, 200, 1-7.	1.9	11
18	Temperature of spatially modulated surface of solid film heated by repetitive laser pulses. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 4196-4201.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Morphologies and kinetics of a dewetting ultrathin solid film. <i>Physical Review B</i> , 2008, 77, .	1.1	9
20	Long-wave model for strongly anisotropic growth of a crystal step. <i>Physical Review E</i> , 2013, 88, 022402.	0.8	7
21	Stability of a strongly anisotropic thin epitaxial film in a wetting interaction with elastic substrate. <i>Europhysics Letters</i> , 2011, 93, 26001.	0.7	6
22	Analysis of a combined influence of substrate wetting and surface electromigration on a thin film stability and dynamical morphologies. <i>Comptes Rendus Physique</i> , 2013, 14, 607-618.	0.3	6
23	Motion of contact line of a crystal over the edge of solid mask in epitaxial lateral overgrowth. <i>Computational Materials Science</i> , 2005, 32, 203-216.	1.4	5
24	Controlling Nanoparticles Formation in Molten Metallic Bilayers by Pulsed-Laser Interference Heating. <i>Mathematical Modelling of Natural Phenomena</i> , 2012, 7, 20-38.	0.9	5
25	Electromigration-guided composition patterns in thin alloy films: A computational study. <i>Surface Science</i> , 2020, 698, 121611.	0.8	4
26	Morphology and structure of Pb thin films grown on Si(111) by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	4
27	Kinetics of nanoring formation on surfaces of stressed thin films. <i>Physical Review Materials</i> , 2018, 2, .	0.9	4
28	Enhancement of epitaxial lateral overgrowth by vapor-phase diffusion. <i>International Journal of Engineering Science</i> , 2004, 42, 1439-1457.	2.7	3
29	Numerical simulation of liquid phase electro-epitaxial selective area growth. <i>Journal of Crystal Growth</i> , 2005, 279, 213-228.	0.7	3
30	Influence of pulsed laser heating on morphological relaxation of surface ripples. <i>Physical Review E</i> , 2005, 72, 011604.	0.8	3
31	Tailoring of crystal surface morphology by induced spatiotemporal oscillations of temperature. <i>Physical Review E</i> , 2007, 75, 021605.	0.8	3
32	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> , 2008, 3, 16-29.	0.9	3
33	Directed long-range transport of a nearly pure component atom clusters by the electromigration of a binary surface alloy. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
34	An alternate numerical treatment for nonlinear PDE models of piezoelectric laminates. , 2019, , .		3
35	Electromigration-driven Evolution of the Surface Morphology and Composition for a Bi-Component Solid Film. <i>Mathematical Modelling of Natural Phenomena</i> , 2015, 10, 83-96.	0.9	2
36	Interplay of quantum size effect, anisotropy and surface stress shapes the instability of thin metal films. <i>Journal of Engineering Mathematics</i> , 2017, 104, 77-92.	0.6	2

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37	Height transitions, shape evolution and coarsening of equilibrating quantum nanoislands. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 085003.	0.8	2
38	Modeling solid-state dewetting of a single-crystal binary alloy thin films. Journal of Applied Physics, 2018, 123, 034302.	1.1	2
39	Morphologies, metastability, and coarsening of quantum nanoislands on the surfaces of the annealed Ag(110) and Pb(111) thin films. Journal of Applied Physics, 2018, 124, 174302.	1.1	2
40	A mesoscopic model of nanoclusters self-assembly on a graphene Moiré. Journal of Applied Physics, 2021, 130, 124301.	1.1	2
41	Modeling evolution of composition patterns in a binary surface alloy. Modelling and Simulation in Materials Science and Engineering, 2021, 29, 015002.	0.8	2
42	Oscillatory Temperature-driven Morphological Relaxation of Surface Ripple Using Weak Pulsed Laser. Materials Research Society Symposia Proceedings, 2005, 890, 1.	0.1	0
43	Step Growth and Meandering in a Precursor-Mediated Epitaxy with Anisotropic Attachment Kinetics and Terrace Diffusion. Mathematical Modelling of Natural Phenomena, 2015, 10, 97-110.	0.9	0
44	Mathematical modeling of a surface morphological instability of a thin monocrystal film in a strong electric field. Involve, 2016, 9, 623-638.	0.1	0
45	Model for computing kinetics of the graphene edge epitaxial growth on copper. Physical Review E, 2016, 93, 062806.	0.8	0
46	Vacancy-mediated suppression of phase separation in a model two-dimensional surface alloy by the difference of the atomic jump rates. Surface Science, 2022, , 122100.	0.8	0