

Mikko P Haataja

List of Publications by Year in descending order

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59
docs citations

59
times ranked

5362
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid demixing in elastic networks: Cavitation, permeation, or size selection?. Europhysics Letters, 2022, 137, 67001.	2.0	27
2	Defect-Enabled Phase Programming of Transition Metal Dichalcogenide Monolayers. Nano Letters, 2021, 21, 4676-4683.	9.1	6
3	Evolution of Polymer Colloid Structure During Precipitation and Phase Separation. JACS Au, 2021, 1, 936-944.	7.9	9
4	Nucleation landscape of biomolecular condensates. Nature, 2021, 599, 503-506.	27.8	108
5	Strain Relaxation in Misfitting Transition Metal Dichalcogenide Monolayer Superlattices: Wrinkling vs Misfit Dislocation Formation. Nano Letters, 2019, 19, 8724-8731.	9.1	5
6	Phase behavior and morphology of multicomponent liquid mixtures. Soft Matter, 2019, 15, 1297-1311.	2.7	77
7	Size Dependence of Transport Non-Uniformities on Localized Plating in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A1147-A1155.	2.9	28
8	Physical principles of intracellular organization via active and passive phase transitions. Reports on Progress in Physics, 2018, 81, 046601.	20.1	319
9	Liquid Nuclear Condensates Mechanically Sense and Restructure the Genome. Cell, 2018, 175, 1481-1491.e13.	28.9	490
10	Domain morphology and mechanics of the H transition metal dichalcogenide monolayers. Physical Review Materials, 2018, 2, .	2.4	18
11	Dynamic Phase Engineering of Bendable Transition Metal Dichalcogenide Monolayers. Nano Letters, 2017, 17, 2473-2481.	9.1	41
12	Lipid Domain Co-localization Induced by Membrane Undulations. Biophysical Journal, 2017, 112, 655-662.	0.5	20
13	Spatiotemporal Control of Intracellular Phase Transitions Using Light-Activated optoDroplets. Cell, 2017, 168, 159-171.e14.	28.9	659
14	Modeling and Analysis of Electrodeposition in Porous Templates. Journal of the Electrochemical Society, 2017, 164, D875-D887.	2.9	8
15	Microstructural stability of supported metal catalysts: A phase field approach. Journal of Power Sources, 2017, 369, 111-121.	7.8	3
16	Simulation study of twisted crystal growth in organic thin films. Physical Review E, 2015, 92, 042404.	2.1	6
17	Capillary effects in guided crystallization of organic thin films. APL Materials, 2015, 3, .	5.1	6
18	Transbilayer Colocalization of Lipid Domains Explained via Measurement of Strong Coupling Parameters. Biophysical Journal, 2015, 109, 2317-2327.	0.5	70

#	ARTICLE	IF	CITATIONS
19	RNA transcription modulates phase transition-driven nuclear body assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5237-45.	7.1	416
20	Phase wettability and microstructural evolution in solid oxide fuel cell anode materials. <i>Acta Materialia</i> , 2014, 78, 271-281.	7.9	23
21	Hydrodynamic interaction between overlapping domains during recurrence of registration within planar lipid bilayer membranes. <i>Physical Review E</i> , 2014, 89, 032717.	2.1	4
22	Crystallization in organic semiconductor thin films: A diffuse-interface approach. <i>Physical Review E</i> , 2014, 89, 022407.	2.1	10
23	Connecting microstructural coarsening processes to electrochemical performance in solid oxide fuel cells: An integrated modeling approach. <i>Journal of Power Sources</i> , 2014, 250, 319-331.	7.8	52
24	Compositional interface dynamics within symmetric and asymmetric planar lipid bilayer membranes. <i>Soft Matter</i> , 2013, 9, 2120-2124.	2.7	9
25	Nonlinear Geometric Effects in Mechanical Bistable Morphing Structures. <i>Physical Review Letters</i> , 2012, 109, 114302.	7.8	107
26	Understanding Heterogeneous Nucleation in Binary, Solution-Processed, Organic Semiconductor Thin Films. <i>Chemistry of Materials</i> , 2012, 24, 2920-2928.	6.7	25
27	Stress-driven migration of simple low-angle mixed grain boundaries. <i>Acta Materialia</i> , 2012, 60, 1395-1407.	7.9	33
28	Classical density functional theory methods in soft and hard matter. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 360301.	1.8	13
29	Formation and regulation of lipid microdomains in cell membranes: Theory, modeling, and speculation. <i>FEBS Letters</i> , 2010, 584, 1678-1684.	2.8	96
30	Dislocation climb strengthening in systems with immobile obstacles: Three-dimensional level-set simulation study. <i>Physical Review B</i> , 2010, 81, .	3.2	11
31	Continuum Modeling of Bulk Metallic Glasses and Composites. <i>Physical Review Letters</i> , 2010, 105, 125503.	7.8	23
32	Lipid Microdomains: Structural Correlations, Fluctuations, and Formation Mechanisms. <i>Physical Review Letters</i> , 2010, 104, 118101.	7.8	29
33	Phase-Field Crystal Modeling of Compositional Domain Formation in Ultrathin Films. <i>Physical Review Letters</i> , 2010, 105, 126101.	7.8	25
34	Critical dynamics in multicomponent lipid membranes. <i>Physical Review E</i> , 2009, 80, 020902.	2.1	31
35	Lipid Domain Morphologies in Phosphatidylcholine~Ceramide Monolayers. <i>Langmuir</i> , 2009, 25, 4595-4600.	3.5	31
36	Ionic Surfactant Aggregates in Saline Solutions: Sodium Dodecyl Sulfate (SDS) in the Presence of Excess Sodium Chloride (NaCl) or Calcium Chloride (CaCl ₂). <i>Journal of Physical Chemistry B</i> , 2009, 113, 5863-5870.	2.6	199

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37	Electrostatic Screening and Charge Correlation Effects in Micellization of Ionic Surfactants. Journal of Physical Chemistry B, 2009, 113, 6314-6320.	2.6	50
38	Biochemistry on a Leash: The Roles of Tether Length and Geometry in Signal Integration Proteins. Biophysical Journal, 2009, 96, 1275-1292.	0.5	47
39	Structure and Dynamics of Surfactant and Hydrocarbon Aggregates on Graphite: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2008, 112, 2915-2921.	2.6	44
40	Surfactant and Hydrocarbon Aggregates on Defective Graphite Surface: Structure and Dynamics. Journal of Physical Chemistry B, 2008, 112, 12954-12961.	2.6	31
41	Micelle Fission through Surface Instability and Formation of an Interdigitating Stalk. Journal of the American Chemical Society, 2008, 130, 17977-17980.	13.7	60
42	Domain Formation in the Plasma Membrane: Roles of Nonequilibrium Lipid Transport and Membrane Proteins. Physical Review Letters, 2008, 100, 178102.	7.8	37
43	Recrystallization kinetics: A coupled coarse-grained dislocation density and phase-field approach. Physical Review B, 2007, 76, .	3.2	26
44	Structural Properties of Ionic Detergent Aggregates: A Large-Scale Molecular Dynamics Study of Sodium Dodecyl Sulfate. Journal of Physical Chemistry B, 2007, 111, 11722-11733.	2.6	178
45	Phase-Field Crystals with Elastic Interactions. Physical Review Letters, 2006, 96, 225504.	7.8	242
46	Scaling of domain size during spinodal decomposition: Dislocation discreteness and mobility effects. Applied Physics Letters, 2005, 87, 251901.	3.3	21
47	Alloy destabilization by dislocations. Applied Physics Letters, 2005, 86, 181909.	3.3	17
48	Influence of mobile dislocations on phase separation in binary alloys. Physical Review B, 2004, 69, .	3.2	31
49	Crossover Scaling of Wavelength Selection in Directional Solidification of Binary Alloys. Physical Review Letters, 2004, 93, 246101.	7.8	62
50	Apparent Hysteresis in a Driven System with Self-Organized Drag. Physical Review Letters, 2004, 92, 160603.	7.8	25
51	Morphological Stability during Electrodeposition. Journal of the Electrochemical Society, 2003, 150, C708.	2.9	17
52	Seaweed to Dendrite Transition in Directional Solidification. Physical Review Letters, 2003, 91, 155502.	7.8	43
53	Morphological Stability during Electrodeposition. Journal of the Electrochemical Society, 2003, 150, C699.	2.9	16
54	Dislocations and morphological instabilities: Continuum modeling of misfitting heteroepitaxial films. Physical Review B, 2002, 65, .	3.2	48

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55	Morphological Instability and Additive-Induced Stabilization in Electrodeposition. Physical Review Letters, 2002, 89, 215509.	7.8	15
56	Modeling Elasticity in Crystal Growth. Physical Review Letters, 2002, 88, 245701.	7.8	766
57	Dynamics of dislocations and surface instabilities in misfitting heteroepitaxial films. Physical Review B, 2001, 65, .	3.2	18
58	Defects, Order, and Hysteresis in Driven Charge-Density Waves. Physical Review Letters, 1999, 83, 3518-3521.	7.8	17