

Evgeniy Khain

List of Publications by Year in descending order

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29
papers

745
citations

623734

14
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

543
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics and Pattern Formation in Invasive Tumor Growth. <i>Physical Review Letters</i> , 2006, 96, 188103.	7.8	100
2	Generalized Cahn-Hilliard equation for biological applications. <i>Physical Review E</i> , 2008, 77, 051129.	2.1	84
3	A Stochastic Model for Wound Healing. <i>Journal of Statistical Physics</i> , 2006, 122, 909-924.	1.2	60
4	Onset of thermal convection in a horizontal layer of granular gas. <i>Physical Review E</i> , 2003, 67, 021306.	2.1	59
5	Collective behavior of brain tumor cells: The role of hypoxia. <i>Physical Review E</i> , 2011, 83, 031920.	2.1	58
6	The Role of Cell-Cell Adhesion in Wound Healing. <i>Journal of Statistical Physics</i> , 2007, 128, 209-218.	1.2	56
7	Symmetry-breaking instability in a prototypical driven granular gas. <i>Physical Review E</i> , 2002, 66, 021306.	2.1	41
8	Shear-induced crystallization of a dense rapid granular flow: Hydrodynamics beyond the melting point. <i>Physical Review E</i> , 2006, 73, 061301.	2.1	38
9	A model for glioma growth. <i>Complexity</i> , 2005, 11, 53-57.	1.6	35
10	Minimizing the Population Extinction Risk by Migration. <i>Physical Review Letters</i> , 2012, 109, 138104.	7.8	35
11	Phase diagram of van der Waals-like phase separation in a driven granular gas. <i>Physical Review E</i> , 2004, 70, 051310.	2.1	33
12	Migration of adhesive glioma cells: Front propagation and fingering. <i>Physical Review E</i> , 2012, 86, 011904.	2.1	32
13	Modeling chemotaxis of adhesive cells: stochastic lattice approach and continuum description. <i>New Journal of Physics</i> , 2014, 16, 025002.	2.9	26
14	Hydrodynamics of a vibrated granular monolayer. <i>Physical Review E</i> , 2011, 84, 031308.	2.1	14
15	Fast Migration and Emergent Population Dynamics. <i>Physical Review Letters</i> , 2012, 109, 248102.	7.8	13
16	Spontaneous formation of large clusters in a lattice gas above the critical point. <i>Physical Review E</i> , 2014, 90, 062702.	2.1	10
17	Two-level modeling of quarantine. <i>Physical Review E</i> , 2020, 102, 022313.	2.1	9
18	Density-Dependent Regulation of Glioma Cell Proliferation and Invasion Mediated by miR-9. <i>Cancer Microenvironment</i> , 2016, 9, 149-159.	3.1	8

#	ARTICLE	IF	CITATIONS
19	Knudsen temperature jump and the Navier-Stokes hydrodynamics of granular gases driven by thermal walls. <i>Physical Review E</i> , 2008, 78, 041303.	2.1	7
20	Velocity fluctuations of noisy reaction fronts propagating into a metastable state. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 125002.	2.1	7
21	Modeling Cell Size Dynamics in a Confined Nonuniform Dense Cell Culture. <i>Journal of Statistical Physics</i> , 2019, 176, 299-311.	1.2	4
22	Dynamics of an Expanding Cell Monolayer. <i>Journal of Statistical Physics</i> , 2021, 184, 1.	1.2	4
23	Effective pressure and cell area distribution in a confined monolayer. <i>Fluid Dynamics Research</i> , 2018, 50, 051413.	1.3	3
24	Path-dependent course of epidemic: Are two phases of quarantine better than one?. <i>Europhysics Letters</i> , 2020, 132, 28003.	2.0	3
25	Velocity fluctuations of stochastic reaction fronts propagating into an unstable state: Strongly pushed fronts. <i>Physical Review E</i> , 2020, 102, 022137.	2.1	2
26	Noise induces rare events in granular media. <i>Physical Review E</i> , 2016, 94, 032905.	2.1	1
27	Thermal conductivity at the high-density limit and the levitating granular cluster. <i>Physical Review E</i> , 2018, 98, 012903.	2.1	1
28	Epidemic on a changing network: College outbreaks and vaccination. <i>International Journal of Modern Physics C</i> , 0, , .	1.7	1
29	Resonant oscillations of a granular cluster. <i>Complexity</i> , 2008, 13, 45-49.	1.6	0