Mohammad Reza Shaebani

List of Publications by Year
in descending order

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39	858	516710 16	501196 28
papers	citations	h-index	g-index

41	41	41	820
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution of shear zones in granular packings under pressure. Soft Matter, 2021, 17, 1814-1820.	2.7	2
2	Shearing of granular materials in a confined split-bottom Couette cell. EPJ Web of Conferences, 2021, 249, 03004.	0.3	0
3	Striped patterns in radially driven suspensions with open boundaries. Physics of Fluids, 2021, 33, 101707.	4.0	0
4	Orientational memory of active particles in multistate non-Markovian processes. Physical Review E, 2021, 104, 054613.	2.1	6
5	Gravity Governs Shear Localization in Confined Dense Granular Flows. Physical Review Letters, 2021, 127, 278003.	7.8	2
6	Computational models for activeÂmatter. Nature Reviews Physics, 2020, 2, 181-199.	26.6	192
7	Cell-type-specific differences in KDEL receptor clustering in mammalian cells. PLoS ONE, 2020, 15, e0235864.	2.5	8
8	Persistence-Speed Coupling Enhances the Search Efficiency of Migrating Immune Cells. Physical Review Letters, 2020, 125, 268102.	7.8	27
9	Transient Anomalous Diffusion in Run-and-Tumble Dynamics. Frontiers in Physics, 2019, 7, .	2.1	19
10	Trapping in and Escape from Branched Structures of Neuronal Dendrites. Biophysical Journal, 2018, 115, 2014-2025.	0.5	9
11	Unraveling the structure of treelike networks from first-passage times of lazy random walkers. Physical Review E, 2018, 98, .	2.1	4
12	Flagellar number governs bacterial spreading and transport efficiency. Science Advances, 2018, 4, eaar6425.	10.3	31
13	Compaction of quasi-one-dimensional elastoplastic materials. Nature Communications, 2017, 8, 15568.	12.8	17
14	Run-and-pause dynamics of cytoskeletal motor proteins. Scientific Reports, 2016, 6, 37162.	3.3	31
15	Tracking of plus-ends reveals microtubule functional diversity in different cell types. Scientific Reports, 2016, 6, 30285.	3.3	9
16	Cargo binding promotes KDEL receptor clustering at the mammalian cell surface. Scientific Reports, 2016, 6, 28940.	3.3	23
17	Enhanced diffusion and anomalous transport of magnetic colloids driven above a two-state flashing potential. Soft Matter, 2016, 12, 3398-3405.	2.7	16
18	Persistent-random-walk approach to anomalous transport of self-propelled particles. Physical Review E, 2015, 91, 062715.	2.1	30

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19	Anisotropy of force distributions in sheared soft-particle systems. Europhysics Letters, 2014, 108, 44002.	2.0	1
20	Stripe formation in horizontally oscillating granular suspensions. Europhysics Letters, 2014, 107, 34006.	2.0	16
21	Anomalous diffusion of self-propelled particles in directed random environments. Physical Review E, 2014, 90, 030701.	2.1	33
22	Long-range interactions in randomly driven granular fluids. Physical Review E, 2013, 88, 022202.	2.1	10
23	Evolution of the force distributions in jammed packings of soft particles. Physical Review E, 2013, 88, 064201.	2.1	4
24	Coexistence and Transition between Shear Zones in Slow Granular Flows. Physical Review Letters, 2013, 111, 148301.	7.8	22
25	Evolution of the contact distribution in sheared 2D granular packings. , 2013, , .		0
26	Characteristics of Casimir-like forces in fluidized granular media. , 2013, , .		0
27	Anisotropic Elasticity in Sheared Packings of Frictional Disks. , 2013, , 339-347.		0
28	Nonadditivity of Fluctuation-Induced Forces in Fluidized Granular Media. Physical Review Letters, 2012, 108, 198001.	7.8	22
29	Influence of polydispersity on micromechanics of granular materials. Physical Review E, 2012, 85, 011301.	2.1	65
30	Unilateral interactions in granular packings: a model for the anisotropy modulus. Granular Matter, 2012, 14, 265-270.	2.2	9
31	An adaptive hierarchical domain decomposition method for parallel contact dynamics simulations of granular materials. Journal of Computational Physics, 2012, 231, 612-628.	3.8	12
32	Extent of force indeterminacy in packings of frictional rigid disks. Physical Review E, 2009, 79, 052302.	2.1	12
33	GENERATION OF HOMOGENEOUS GRANULAR PACKINGS: CONTACT DYNAMICS SIMULATIONS AT CONSTANT PRESSURE USING FULLY PERIODIC BOUNDARIES. International Journal of Modern Physics C, 2009, 20, 847-867.	1.7	8
34	Diffusive transport of light in a two-dimensional disordered packing of disks: Analytical approach to transport mean free path. Physical Review E, 2008, 78, 031121.	2.1	21
35	Unjamming due to local perturbations in granular packings with and without gravity. Physical Review E, 2008, 78, 011308.	2.1	12
36	Unjamming of granular packings due to local perturbations: Stability and decay of displacements. Physical Review E, 2007, 76, 030301.	2.1	12

#	Article	IF	Citations
37	Intelligent Controlling Simulation of Traffic Flow in a Small City Network. Journal of the Physical Society of Japan, 2004, 73, 3209-3214.	1.6	30
38	Optimized traffic flow at a single intersection: traffic responsive signalization. Journal of Physics A, 2004, 37, 561-576.	1.6	63
39	Characteristics of vehicular traffic flow at a roundabout. Physical Review E, 2004, 70, 046132.	2.1	78