

# Mohammad Reza Shaebani

## List of Publications by Year in descending order

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39  
papers

858  
citations

516710

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501196

28  
g-index

41  
all docs

41  
docs citations

41  
times ranked

820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational models for active matter. Nature Reviews Physics, 2020, 2, 181-199.	26.6	192
2	Characteristics of vehicular traffic flow at a roundabout. Physical Review E, 2004, 70, 046132.	2.1	78
3	Influence of polydispersity on micromechanics of granular materials. Physical Review E, 2012, 85, 011301.	2.1	65
4	Optimized traffic flow at a single intersection: traffic responsive signalization. Journal of Physics A, 2004, 37, 561-576.	1.6	63
5	Anomalous diffusion of self-propelled particles in directed random environments. Physical Review E, 2014, 90, 030701.	2.1	33
6	Run-and-pause dynamics of cytoskeletal motor proteins. Scientific Reports, 2016, 6, 37162.	3.3	31
7	Flagellar number governs bacterial spreading and transport efficiency. Science Advances, 2018, 4, eaar6425.	10.3	31
8	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
9	Persistent-random-walk approach to anomalous transport of self-propelled particles. Physical Review E, 2015, 91, 062715.	2.1	30
10	Persistence-Speed Coupling Enhances the Search Efficiency of Migrating Immune Cells. Physical Review Letters, 2020, 125, 268102.	7.8	27
11	Cargo binding promotes KDEL receptor clustering at the mammalian cell surface. Scientific Reports, 2016, 6, 28940.	3.3	23
12	Nonadditivity of Fluctuation-Induced Forces in Fluidized Granular Media. Physical Review Letters, 2012, 108, 198001.	7.8	22
13	Coexistence and Transition between Shear Zones in Slow Granular Flows. Physical Review Letters, 2013, 111, 148301.	7.8	22
14	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
15	Transient Anomalous Diffusion in Run-and-Tumble Dynamics. Frontiers in Physics, 2019, 7, .	2.1	19
16	Compaction of quasi-one-dimensional elastoplastic materials. Nature Communications, 2017, 8, 15568.	12.8	17
17	Stripe formation in horizontally oscillating granular suspensions. Europhysics Letters, 2014, 107, 34006.	2.0	16
18	Enhanced diffusion and anomalous transport of magnetic colloids driven above a two-state flashing potential. Soft Matter, 2016, 12, 3398-3405.	2.7	16

#	ARTICLE	IF	CITATIONS
19	Unjamming of granular packings due to local perturbations: Stability and decay of displacements. <i>Physical Review E</i> , 2007, 76, 030301.	2.1	12
20	Unjamming due to local perturbations in granular packings with and without gravity. <i>Physical Review E</i> , 2008, 78, 011308.	2.1	12
21	Extent of force indeterminacy in packings of frictional rigid disks. <i>Physical Review E</i> , 2009, 79, 052302.	2.1	12
22	An adaptive hierarchical domain decomposition method for parallel contact dynamics simulations of granular materials. <i>Journal of Computational Physics</i> , 2012, 231, 612-628.	3.8	12
23	Long-range interactions in randomly driven granular fluids. <i>Physical Review E</i> , 2013, 88, 022202.	2.1	10
24	Unilateral interactions in granular packings: a model for the anisotropy modulus. <i>Granular Matter</i> , 2012, 14, 265-270.	2.2	9
25	Tracking of plus-ends reveals microtubule functional diversity in different cell types. <i>Scientific Reports</i> , 2016, 6, 30285.	3.3	9
26	Trapping in and Escape from Branched Structures of Neuronal Dendrites. <i>Biophysical Journal</i> , 2018, 115, 2014-2025.	0.5	9
27	GENERATION OF HOMOGENEOUS GRANULAR PACKINGS: CONTACT DYNAMICS SIMULATIONS AT CONSTANT PRESSURE USING FULLY PERIODIC BOUNDARIES. <i>International Journal of Modern Physics C</i> , 2009, 20, 847-867.	1.7	8
28	Cell-type-specific differences in KDEL receptor clustering in mammalian cells. <i>PLoS ONE</i> , 2020, 15, e0235864.	2.5	8
29	Orientational memory of active particles in multistate non-Markovian processes. <i>Physical Review E</i> , 2021, 104, 054613.	2.1	6
30	Evolution of the force distributions in jammed packings of soft particles. <i>Physical Review E</i> , 2013, 88, 064201.	2.1	4
31	Unraveling the structure of treelike networks from first-passage times of lazy random walkers. <i>Physical Review E</i> , 2018, 98, .	2.1	4
32	Evolution of shear zones in granular packings under pressure. <i>Soft Matter</i> , 2021, 17, 1814-1820.	2.7	2
33	Gravity Governs Shear Localization in Confined Dense Granular Flows. <i>Physical Review Letters</i> , 2021, 127, 278003.	7.8	2
34	Anisotropy of force distributions in sheared soft-particle systems. <i>Europhysics Letters</i> , 2014, 108, 44002.	2.0	1
35	Evolution of the contact distribution in sheared 2D granular packings. , 2013, , .		0
36	Characteristics of Casimir-like forces in fluidized granular media. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Shearing of granular materials in a confined split-bottom Couette cell. EPJ Web of Conferences, 2021, 249, 03004.	0.3	0
38	Striped patterns in radially driven suspensions with open boundaries. Physics of Fluids, 2021, 33, 101707.	4.0	0
39	Anisotropic Elasticity in Sheared Packings of Frictional Disks. , 2013, , 339-347.		0