Jerzy Blawzdziewicz

List of Publications by Year
in descending order

20	367	759233 12	839539 18
papers	citations	h-index	g-index

22	22	22	495
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental demonstration of nonuniform frequency distributions of granular packings. Physical Review E, 2009, 80, 061304.	2.1	39
2	NemaFlex: a microfluidics-based technology for standardized measurement of muscular strength ofC. elegans. Lab on A Chip, 2018, 18, 2187-2201.	6.0	37
3	Equilibrium electro-deformation of a surfactant-laden viscous drop. Physics of Fluids, 2013, 25, .	4.0	35
4	Coalescing drops in microfluidic parking networks: A multifunctional platform for drop-based microfluidics. Biomicrofluidics, 2014, 8, 034118.	2.4	34
5	The integrinâ€adhesome is required to maintain muscle structure, mitochondrial ATP production, and movement forces inCaenorhabditis elegans. FASEB Journal, 2015, 29, 1235-1246.	0.5	33
6	NemaLife chip: a micropillar-based microfluidic culture device optimized for aging studies in crawling C. elegans. Scientific Reports, 2020, 10, 16190.	3.3	29
7	Locomotion of C. elegans: A Piecewise-Harmonic Curvature Representation of Nematode Behavior. PLoS ONE, 2012, 7, e40121.	2.5	21
8	Embryo as an active granular fluid: stress-coordinated cellular constriction chains. Journal of Physics Condensed Matter, 2016, 28, 414021.	1.8	21
9	Roll maneuvers are essential for active reorientation of Caenorhabditis elegans in 3D media. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3616-E3625.	7.1	21
10	Pluronic gel-based burrowing assay for rapid assessment of neuromuscular health in C. elegans. Scientific Reports, 2019, 9, 15246.	3.3	21
11	Effect of small particles on the near-wall dynamics of a large particle in a highly bidisperse colloidal solution. Journal of Chemical Physics, 2008, 128, 214704.	3.0	15
12	Nematode locomotion in unconfined and confined fluids. Physics of Fluids, 2013, 25, .	4.0	15
13	Streaming Current and Effective Î¶-Potential for Particle-Covered Surfaces with Random Particle Distributions. Journal of Physical Chemistry C, 2019, 123, 3517-3531.	3.1	12
14	Mechanisms of spontaneous chain formation and subsequent microstructural evolution in shear-driven strongly confined drop monolayers. Soft Matter, 2019, 15, 4873-4889.	2.7	10
15	Stratified rod network model of electrical conductance in ultrathin polymerâ€“carbon nanotube multilayers. Physical Review B, 2013, 87, .	3.2	7
16	Mechanical feedback and robustness of apical constrictions in Drosophila embryo ventral furrow formation. PLoS Computational Biology, 2021, 17, e1009173.	3.2	6
17	Size-temperature equivalence in tensile deformation of metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140595.	5.6	4
18	Buckling of metallic glass supercooled liquid layer during embossing. Applied Physics Letters, 2019, 114, .	3.3	2

#	Article	IF	Citations
19	Understanding the local flow rate peak of a hopper discharging discs through an obstacle using a Tetris-like model. Granular Matter, 2019, 21, 1.	2.2	2
20	Enhanced flow rate by the concentration mechanism of Tetris particles when discharged from a hopper with an obstacle. Physical Review E, 2021, 103, 062904.	2.1	1