

Jerzy Blawdziewicz

List of Publications by Year in descending order

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20
papers

367
citations

759233

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22
all docs

22
docs citations

22
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-temperature equivalence in tensile deformation of metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 805, 140595.	5.6	4
2	Enhanced flow rate by the concentration mechanism of Tetris particles when discharged from a hopper with an obstacle. <i>Physical Review E</i> , 2021, 103, 062904.	2.1	1
3	Mechanical feedback and robustness of apical constrictions in <i>Drosophila</i> embryo ventral furrow formation. <i>PLoS Computational Biology</i> , 2021, 17, e1009173.	3.2	6
4	NemaLife chip: a micropillar-based microfluidic culture device optimized for aging studies in crawling <i>C. elegans</i> . <i>Scientific Reports</i> , 2020, 10, 16190.	3.3	29
5	Pluronic gel-based burrowing assay for rapid assessment of neuromuscular health in <i>C. elegans</i> . <i>Scientific Reports</i> , 2019, 9, 15246.	3.3	21
6	Mechanisms of spontaneous chain formation and subsequent microstructural evolution in shear-driven strongly confined drop monolayers. <i>Soft Matter</i> , 2019, 15, 4873-4889.	2.7	10
7	Buckling of metallic glass supercooled liquid layer during embossing. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	2
8	Understanding the local flow rate peak of a hopper discharging discs through an obstacle using a Tetris-like model. <i>Granular Matter</i> , 2019, 21, 1.	2.2	2
9	Streaming Current and Effective ζ -Potential for Particle-Covered Surfaces with Random Particle Distributions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3517-3531.	3.1	12
10	Roll maneuvers are essential for active reorientation of <i>Caenorhabditis elegans</i> in 3D media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3616-E3625.	7.1	21
11	NemaFlex: a microfluidics-based technology for standardized measurement of muscular strength of <i>C. elegans</i> . <i>Lab on A Chip</i> , 2018, 18, 2187-2201.	6.0	37
12	Embryo as an active granular fluid: stress-coordinated cellular constriction chains. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 414021.	1.8	21
13	The integrin- α 5 adhesion is required to maintain muscle structure, mitochondrial ATP production, and movement forces in <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2015, 29, 1235-1246.	0.5	33
14	Coalescing drops in microfluidic parking networks: A multifunctional platform for drop-based microfluidics. <i>Biomicrofluidics</i> , 2014, 8, 034118.	2.4	34
15	Equilibrium electro-deformation of a surfactant-laden viscous drop. <i>Physics of Fluids</i> , 2013, 25, .	4.0	35
16	Stratified rod network model of electrical conductance in ultrathin polymer-carbon nanotube multilayers. <i>Physical Review B</i> , 2013, 87, .	3.2	7
17	Nematode locomotion in unconfined and confined fluids. <i>Physics of Fluids</i> , 2013, 25, .	4.0	15
18	Locomotion of <i>C. elegans</i> : A Piecewise-Harmonic Curvature Representation of Nematode Behavior. <i>PLoS ONE</i> , 2012, 7, e40121.	2.5	21

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19	Experimental demonstration of nonuniform frequency distributions of granular packings. <i>Physical Review E</i> , 2009, 80, 061304.	2.1	39
20	Effect of small particles on the near-wall dynamics of a large particle in a highly bidisperse colloidal solution. <i>Journal of Chemical Physics</i> , 2008, 128, 214704.	3.0	15