Farid Alisafaei

List of Publications by Year
in descending order

26 papers	1,178 citations	567281 15 h-index	552781 26 g-index
30 all docs	30 docs citations	30 times ranked	1540 citing authors

#	Article	IF	Citations
1	Cytoskeleton-mediated alterations of nuclear mechanics by extracellular mechanical signals. Biophysical Journal, 2022, 121, 1-3.	0.5	5
2	Long-range mechanical signaling in biological systems. Soft Matter, 2021, 17, 241-253.	2.7	36
3	The nuclear piston activates mechanosensitive ion channels to generate cell migration paths in confining microenvironments. Science Advances, 2021, 7, .	10.3	45
4	Surface-directed engineering of tissue anisotropy in microphysiological models of musculoskeletal tissue. Science Advances, 2021, 7, .	10.3	33
5	Fiber Diameter-Dependent Elastic Deformation in Polymer Compositesâ€"A Numerical Study. Journal of Engineering Materials and Technology, Transactions of the ASME, 2020, 142, .	1.4	2
6	Mechanisms of Local Stress Amplification in Axons near the Gray-White Matter Interface. Biophysical Journal, 2020, 119, 1290-1300.	0.5	9
7	Nuclear Mechanics: Nuclear Mechanics within Intact Cells Is Regulated by Cytoskeletal Network and Internal Nanostructures (Small 18/2020). Small, 2020, 16, 2070098.	10.0	0
8	Nuclear Mechanics within Intact Cells Is Regulated by Cytoskeletal Network and Internal Nanostructures. Small, 2020, 16, e1907688.	10.0	52
9	The Balance between Actomyosin Contractility and Microtubule Polymerization Regulates Hierarchical Protrusions That Govern Efficient Fibroblastâ€"Collagen Interactions. ACS Nano, 2020, 14, 7868-7879.	14.6	37
10	Multiscale reverse engineering of the human ocular surface. Nature Medicine, 2019, 25, 1310-1318.	30.7	94
11	Regulation of nuclear architecture, mechanics, and nucleocytoplasmic shuttling of epigenetic factors by cell geometric constraints. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13200-13209.	7.1	166
12	Compressive force induces reversible chromatin condensation and cell geometryâ€"dependent transcriptional response. Molecular Biology of the Cell, 2018, 29, 3039-3051.	2.1	106
13	On thresholds in the indentation size effect of polymers. Polymer Bulletin, 2016, 73, 763-772.	3.3	5
14	Fibrous nonlinear elasticity enables positive mechanical feedback between cells and ECMs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14043-14048.	7.1	267
15	Length scale dependence in elastomers â€" comparison of indentation experiments with numerical simulations. Polymer, 2016, 98, 201-209.	3.8	10
16	On couple-stress elasto-plastic constitutive frameworks for glassy polymers. International Journal of Plasticity, 2016, 77, 30-53.	8.8	24
17	On the origin of indentation size effects and depth dependent mechanical properties of elastic polymers. Journal of Polymer Engineering, 2016, 36, 103-111.	1.4	41
18	Length scale dependent deformation in natural rubber. Journal of Applied Polymer Science, 2015, 132, .	2.6	12

#	Article	IF	Citations
19	Indentation Depth Dependent Mechanical Behavior in Polymers. Advances in Condensed Matter Physics, 2015, 2015, 1-20.	1.1	48
20	Characterization of indentation size effects in epoxy. Polymer Testing, 2014, 40, 70-78.	4.8	44
21	A semi-analytical approach for the interaction of carbon nanotori. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 63-66.	2.7	6
22	On the time and indentation depth dependence of hardness, dissipation and stiffness in polydimethylsiloxane. Polymer Testing, 2013, 32, 1220-1228.	4.8	40
23	FORCE DISTRIBUTION AND OFFSET CONFIGURATION FOR CARBON NANOTUBES. International Journal of Nanoscience, 2012, 11, 1250014.	0.7	1
24	On the van der Waals interaction of carbon nanocones. Journal of Physics and Chemistry of Solids, 2012, 73, 751-756.	4.0	14
25	Mechanics of concentric carbon nanotubes: Interaction force and suction energy. Computational Materials Science, 2011, 50, 1406-1413.	3.0	17
26	Dynamic analysis of multi-layered filament-wound composite pipes subjected to cyclic internal pressure and cyclic temperature. Composite Structures, 2010, 92, 1100-1109.	5.8	54