Ashfaq Adnan

List of Publications by Year in descending order

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Version: 2024-02-01

759233 552781 40 765 12 26 h-index citations g-index papers 41 41 41 924 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Shock-Induced Damage Mechanism of Perineuronal Nets. Biomolecules, 2022, 12, 10.	4.0	5
2	Three-Dimensional Stochastic Modelling of Wavy Carbon Nanotube Reinforced Epoxy Nanocomposites. Multiscale Science and Engineering, 2021, 3, 51-61.	1.7	1
3	Domain focused and residue focused phosphorylation effect on tau protein: A molecular dynamics simulation study. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 113, 104149.	3.1	13
4	Effect of random fiber networks on bubble growth in gelatin hydrogels. Soft Matter, 2021, 17, 9293-9314.	2.7	4
5	Mechanical behavior of actin and spectrin subjected to high strain rate: A molecular dynamics simulation study. Computational and Structural Biotechnology Journal, 2021, 19, 1738-1749.	4.1	11
6	Void reduction in fused filament fabrication (FFF) through <i>in situ</i> nozzle-integrated compression rolling of deposited filaments. Virtual and Physical Prototyping, 2021, 16, 146-159.	10.4	19
7	Cavitation Induced Damage in Soft Biomaterials. Multiscale Science and Engineering, 2021, 3, 67-87.	1.7	19
8	Viscoelastic Response of Neurofilaments: An Atomistic Simulation Approach. Biomolecules, 2021, 11, 540.	4.0	6
9	Improved print quality in fused filament fabrication through localized dispensing of hot air around the deposited filament. Additive Manufacturing, 2021, 40, 101917.	3.0	8
10	Effect of Strain Rate on Single Tau, Dimerized Tau and Tau-Microtubule Interface: A Molecular Dynamics Simulation Study. Biomolecules, 2021, 11, 1308.	4.0	3
11	Effects of Bubble Size and Gas Density on the Shock-induced Collapse of Nanoscale Cavitation Bubble. Multiscale Science and Engineering, 2020, 2, 127-134.	1.7	4
12	Recent Computational Approaches on Mechanical Behavior of Axonal Cytoskeletal Components of Neuron: A Brief Review. Multiscale Science and Engineering, 2020, 2, 199-213.	1.7	13
13	On the Molecular Level Cavitation in Soft Gelatin Hydrogel. Scientific Reports, 2020, 10, 9635.	3.3	11
14	Effects of Focal Axonal Swelling Level on the Action Potential Signal Transmission. Journal of Computational Neuroscience, 2020, 48, 253-263.	1.0	8
15	Nozzle-integrated pre-deposition and post-deposition heating of previously deposited layers in polymer extrusion based additive manufacturing. Additive Manufacturing, 2019, 28, 719-726.	3.0	28
16	Grain boundary driven mechanical properties of ZrB 2 and ZrCâ€ZrB 2 nanocomposite: A molecular simulation study. Journal of the American Ceramic Society, 2018, 101, 3105-3117.	3.8	8
17	Cavitation nucleation in gelatin: Experiment and mechanism. Acta Biomaterialia, 2018, 67, 295-306.	8.3	28
18	On the elastic stress singularities and mode I notch stress intensity factor for 3D printed polymers. Engineering Fracture Mechanics, 2018, 204, 235-245.	4.3	9

#	Article	IF	Citations
19	On the atomistic-based continuum viscoelastic constitutive relations for axonal microtubules. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 375-389.	3.1	8
20	Damage and Failure of Axonal Microtubule under Extreme High Strain Rate: An In-Silico Molecular Dynamics Study. Scientific Reports, 2018, 8, 12260.	3.3	16
21	Mode-I Fracture Toughness Prediction of Diamond at the Nanoscale. Journal of Nanomechanics & Micromechanics, 2017, 7, .	1.4	9
22	Effect of Shock-Induced Cavitation Bubble Collapse on the damage in the Simulated Perineuronal Net of the Brain. Scientific Reports, 2017, 7, 5323.	3.3	28
23	Mechanical properties of computationally designed novel carbon enriched Si1â^xCx ceramics: A molecular dynamics simulation study. Computational Materials Science, 2015, 110, 331-339.	3.0	8
24	Computational design of novel carbon enriched Si1â^'C ceramics: A molecular dynamics simulation study. Computational Materials Science, 2015, 96, 354-359.	3.0	2
25	A study of mechanical behavior and morphology of carbon nanotube reinforced UHMWPE/Nylon 6 hybrid polymer nanocomposite fiber. Fibers and Polymers, 2014, 15, 1484-1492.	2.1	11
26	Role of a single surface vacancy on the tensile stress–strain relations of single crystal Ni nanowire. Computational Materials Science, 2014, 90, 221-231.	3.0	9
27	3D Structural Integrity and Interactions of Single-Stranded Protein-Binding DNA in a Functionalized Nanopore. Journal of Physical Chemistry B, 2014, 118, 5799-5806.	2.6	15
28	Shear fracture of confined NaCl nanofilms. Computational Materials Science, 2013, 68, 271-279.	3.0	5
29	Elastic Properties of UHMWPE-SWCNT Nanocomposites' Fiber: An Experimental, Theoretic, and Molecular Dynamics Evaluation. Journal of Materials Engineering and Performance, 2013, 22, 1593-1600.	2.5	5
30	Role of nanoparticle dispersion and filler-matrix interface on the matrix dominated failure of rigid C60-PE nanocomposites: A molecular dynamics simulation study. Polymer, 2013, 54, 2565-2576.	3.8	42
31	On the size-dependent critical stress intensity factor of confined brittle nanofilms. Engineering Fracture Mechanics, 2012, 86, 13-22.	4.3	16
32	Atomistic Simulation and Measurement of pH Dependent Cancer Therapeutic Interactions with Nanodiamond Carrier. Molecular Pharmaceutics, 2011, 8, 368-374.	4.6	117
33	Evolution of nanoscale defects to planar cracks in a brittle solid. Journal of the Mechanics and Physics of Solids, 2010, 58, 983-1000.	4.8	28
34	A molecular dynamics simulation study to investigate the effect of filler size on elastic properties of polymer nanocomposites. Composites Science and Technology, 2007, 67, 348-356.	7.8	155
35	Carbon nanoparticles/whiskers reinforced composites and their tensile response. Composites Part A: Applied Science and Manufacturing, 2004, 35, 519-527.	7.6	86
36	Mechanical Behavior of Axonal Actin, Spectrin, and Their Periodic Structure: A Brief Review. Multiscale Science and Engineering, 0 , 1 .	1.7	1

#	Article	ΙF	CITATIONS
37	Molecular Dynamics Study of Carbon Nanotube/Epoxy Interfaces Using ReaxFF. , 0, , .		2
38	Elastic Constants of Carbon Nanotube Reinforced Polymer Nanocomposites., 0,,.		1
39	Effect of CNT Waviness on the Elastic Modulus of Carbon Nanotube Reinforced Polymer Composites. , 0, , .		O
40	Modeling the Effect of In Situ Nozzle-Integrated Compression Rolling on the Void Reduction and Filaments-Filament Adhesion in Fused Filament Fabrication (FFF). Multiscale Science and Engineering, 0, , 1.	1.7	3