

Abolfazl Alizadeh Sahraei

List of Publications by Citations

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53
papers

427
citations

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55
ext. papers

559
ext. citations

3.2
avg, IF

4.21
L-index

#	Paper	IF	Citations
53	3D microstructural reconstruction of heterogeneous materials from 2D cross sections: A modified phase-recovery algorithm. <i>Computational Materials Science</i> , 2016 , 111, 107-115	3.2	46
52	Contact angle hysteresis and motion behaviors of a water nano-droplet on suspended graphene under temperature gradient. <i>Physics of Fluids</i> , 2018 , 30, 052101	4.4	25
51	Insights into interphase thickness characterization for graphene/epoxy nanocomposites: a molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 19890-19903	3.6	20
50	A modified strong-contrast expansion for estimating the effective thermal conductivity of multiphase heterogeneous materials. <i>Journal of Applied Physics</i> , 2012 , 112, 114318	2.5	20
49	Microstructure Reconstruction and Characterization of the Porous GDLs for PEMFC Based on Fibers Orientation Distribution. <i>Fuel Cells</i> , 2018 , 18, 160-172	2.9	19
48	Enhanced hardness and electrical properties of copper nanocomposites reinforced by functionalized MWCNTs. <i>Journal of Composite Materials</i> , 2014 , 48, 3485-3497	2.7	18
47	Efficient three-phase reconstruction of heterogeneous material from 2D cross-sections via phase-recovery algorithm. <i>Journal of Microscopy</i> , 2016 , 264, 384-393	1.9	18
46	Fabricating and improving properties of copper matrix nanocomposites by electroless copper-coated MWCNTs. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1677-1686	2.6	16
45	Effect of untreated zirconium oxide nanofiller on the flexural strength and surface hardness of autopolymerized interim fixed restoration resins. <i>Journal of Esthetic and Restorative Dentistry</i> , 2017 , 29, 264-269	3.5	14
44	Insight into Geometry-Controlled Mechanical Properties of Spiral Carbon-Based Nanostructures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3226-3238	3.8	14
43	Hydrogenation-controlled mechanical properties in graphene helicoids: exceptional distribution-dependent behavior. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 12423-12433	3.6	13
42	AC and DC electrical behavior of MWCNT/epoxy nanocomposite near percolation threshold: Equivalent circuits and percolation limits. <i>Journal of Applied Physics</i> , 2018 , 123, 105109	2.5	13
41	On finite bending of visco-hyperelastic materials: a novel analytical solution and FEM. <i>Acta Mechanica</i> , 2020 , 231, 3435-3450	2.1	11
40	Improving flame-retardant, thermal, and mechanical properties of an epoxy using halogen-free fillers. <i>Science and Engineering of Composite Materials</i> , 2018 , 25, 939-946	1.5	10
39	A novel machine learning based computational framework for homogenization of heterogeneous soft materials: application to liver tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 1131-1142	3.8	10
38	Homogenization of heterogeneous brain tissue under quasi-static loading: a visco-hyperelastic model of a 3D RVE. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 969-981	3.8	10
37	Chemical transformation and dissociation of amino acids on metal sulfide surface: Insights from DFT into the effect of surface vacancies on alanine-sphalerite system. <i>Applied Surface Science</i> , 2021 , 540, 148304	6.7	10

36	Monitoring the effect of sonoporation on the cells using electrochemical approach. <i>Ultrasonics Sonochemistry</i> , 2018 , 41, 619-625	8.9	10
35	Role of Chemical Doping in Large Deformation Behavior of Spiral Carbon-Based Nanostructures: Unraveling Geometry-Dependent Chemical Doping Effects. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19208-19219	3.8	9
34	Numerical investigation of smart auxetic three-dimensional meta-structures based on shape memory polymers via topology optimization. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 1838-1852	2.3	8
33	An Investigation on Thermomechanical Flexural Response of Shape-Memory-Polymer Beams. <i>International Journal of Applied Mechanics</i> , 2016 , 08, 1650063	2.4	8
32	Thermomechanical behavior of shape memory polymer beams reinforced by corrugated polymeric sections. <i>Meccanica</i> , 2017 , 52, 1947-1962	2.1	7
31	Investigation on thermal stresses in FGM hyperelastic thick-walled cylinders. <i>Journal of Thermal Stresses</i> , 2018 , 41, 204-221	2.2	7
30	Determinative factors in inhibition of aquaporin by different pharmaceuticals: Atomic scale overview by molecular dynamics simulation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2815-2823	4	7
29	Optimization of Taylor spatial frame half-pins diameter for bone deformity correction: Application to femur. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018 , 232, 673-681	1.7	7
28	Synergistic effect of carbon nanotubes and copper particles in an epoxy-based nanocomposite using electroless copper deposited carbon nanotubes: Part I Mechanical properties. <i>Journal of Composite Materials</i> , 2016 , 50, 1909-1920	2.7	6
27	Formation of homogenous copper film on MWCNTs by an efficient electroless deposition process. <i>Science and Engineering of Composite Materials</i> , 2017 , 24, 345-352	1.5	6
26	How to characterize interfacial load transfer in spiral carbon-based nanostructure-reinforced nanocomposites: is this a geometry-dependent process?. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 23880-23892	3.6	6
25	Atomistic simulation of interfacial properties and damage mechanism in graphene nanoplatelet/epoxy composites. <i>Computational Materials Science</i> , 2020 , 184, 109888	3.2	5
24	Effect of 2D Image Resolution on 3D Stochastic Reconstruction and Developing Petrophysical Trend. <i>Transport in Porous Media</i> , 2018 , 125, 41-58	3.1	5
23	A framework for optimal microstructural design of random heterogeneous materials. <i>Computational Mechanics</i> , 2020 , 66, 123-139	4	4
22	Computational analysis of vincristine loaded silk fibroin hydrogel for sustained drug delivery applications: Multiphysics modeling and experiments. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121184	6.5	4
21	How Do Surface Defects Change Local Wettability of the Hydrophilic ZnS Surface? Insights into Sphalerite Flotation from Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 998-1009	3.8	4
20	Insights into the Solubility of Carbon Dioxide in Grafted Mesoporous Silica for the Catalytic Synthesis of Cyclic Carbonates by Nanoconfinement. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27019-27028	9.5	4
19	Design and Manufacture of a Smart Macro-Structure with Changeable Effective Stiffness. <i>International Journal of Applied Mechanics</i> , 2020 , 12, 2050001	2.4	3

18	Investigation of the geometric property hull for infiltrated solid oxide fuel cell electrodes. <i>International Journal of Energy Research</i> , 2017 , 41, 2318-2331	4.5	3
17	A New Statistical Descriptor for the Physical Characterization and 3D Reconstruction of Heterogeneous Materials. <i>Transport in Porous Media</i> , 1	3.1	3
16	Improving mechanical properties of near-net-shape aluminum/MWCNT nanocomposites fabricated by plasma spray forming using electroless copper coating of MWCNT. <i>Journal of Composite Materials</i> , 2015 , 49, 131-139	2.7	2
15	Developing a beam formulation for semi-crystalline two-way shape memory polymers. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 1465-1476	2.3	2
14	Qualitative Equivalence Between Electrical Percolation Threshold and Effective Thermal Conductivity in Polymer/Carbon Nanocomposites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2012 , 134,	1.8	2
13	A computational approach to evaluate the nonlinear and noisy DC electrical response in carbon nanotube/polymer nanocomposites near the percolation threshold. <i>Computational Materials Science</i> , 2020 , 173, 109439	3.2	2
12	Micromechanical Modeling of the Effective Mechanical Behavior of Cerebral Cortex Tissue. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2020 , 44, 273-285	1.2	2
11	A modified simulated annealing algorithm for hybrid statistical reconstruction of heterogeneous microstructures. <i>Computational Materials Science</i> , 2021 , 197, 110636	3.2	2
10	A Microfabrication Method of PCL Scaffolds for Tissue Engineering by Simultaneous Two PDMS Molds Replication. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4763-4778	5.5	2
9	Prediction of bone microstructures degradation during osteoporosis with fuzzy cellular automata algorithm. <i>Mathematics and Mechanics of Solids</i> , 108128652210885	2.3	2
8	Multiphysics modeling and experiments on ultrasound-triggered drug delivery from silk fibroin hydrogel for Wilms tumor.. <i>International Journal of Pharmaceutics</i> , 2022 , 621, 121787	6.5	2
7	Statistical prediction of bone microstructure degradation to study patient dependency in osteoporosis. <i>Mathematics and Mechanics of Solids</i> , 108128652210987	2.3	2
6	Refining anticipation of degraded bone microstructures during osteoporosis based on statistical homogenized reconstruction method via quality of connection function. <i>International Journal of Computational Materials Science and Engineering</i> , 2020 , 09, 2050023	0.3	1
5	Electronic simulations of alanine and water coadsorption over Defect-free and Sulfur-depleted sphalerite surfaces. <i>Applied Surface Science</i> , 2022 , 576, 151899	6.7	1
4	Computational modeling of degradation process on the mechanical performance of Poly-lactic acid /Magnesium composite. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021 , 235, 3-18	1.3	1
3	Effects of functional group type and coverage on the interfacial strength and load transfer of graphene-polyethylene nanocomposites: a molecular dynamics simulation. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	1
2	Predicting the hardness of carbon nanotube reinforced copper matrix nanocomposites using two adaptive fuzzy inference system identifiers. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2015 , 229, 192-203	1.5	
1	Mechanical properties of an epoxy-based coating reinforced with silica aerogel and ammonium polyphosphate additives. <i>Polymers and Polymer Composites</i> , 2022 , 30, 096739112110690	0.8	

