

# Sasan Nouranian

## List of Publications by Year in descending order

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45  
papers

1,213  
citations

361413

20  
h-index

377865

34  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular simulation of pH-dependent diffusion, loading, and release of doxorubicin in graphene and graphene oxide drug delivery systems. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7441-7451.	5.8	120
2	Two-phase solid-liquid coexistence of Ni, Cu, and Al by molecular dynamics simulations using the modified embedded-atom method. <i>Acta Materialia</i> , 2015, 86, 169-181.	7.9	105
3	Quantitative modeling of the equilibration of two-phase solid-liquid Fe by atomistic simulations on diffusive time scales. <i>Physical Review B</i> , 2015, 91, .	3.2	67
4	Review of Hierarchical Multiscale Modeling to Describe the Mechanical Behavior of Amorphous Polymers. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2009, 131, .	1.4	65
5	A review of recent progress in improving the fracture toughness of epoxy-based composites using carbonaceous nanofillers. <i>Polymer Composites</i> , 2022, 43, 1871-1886.	4.6	64
6	Molecular dynamics simulations of vinyl ester resin monomer interactions with a pristine vapor-grown carbon nanofiber and their implications for composite interphase formation. <i>Carbon</i> , 2011, 49, 3219-3232.	10.3	53
7	Mechanical properties of bamboo fiber-reinforced polymer composites: a review of recent case studies. <i>Journal of Materials Science</i> , 2022, 57, 3143-3167.	3.7	53
8	A review of electrical and thermal conductivities of epoxy resin systems reinforced with carbon nanotubes and graphene-based nanoparticles. <i>Polymer Testing</i> , 2022, 112, 107645.	4.8	51
9	Molecular Insights on the CH <sub>4</sub> /CO <sub>2</sub> Separation in Nanoporous Graphene and Graphene Oxide Separation Platforms: Adsorbents versus Membranes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12308-12320.	3.1	48
10	Reactive Molecular Simulation of the Damage Mitigation Efficacy of POSS-, Graphene-, and Carbon Nanotube-Loaded Polyimide Coatings Exposed to Atomic Oxygen Bombardment. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12802-12811.	8.0	47
11	Hyperbranched polyethylenimine functionalized silica/polysulfone nanocomposite membranes for water purification. <i>Chemosphere</i> , 2022, 290, 133363.	8.2	43
12	An interatomic potential for saturated hydrocarbons based on the modified embedded-atom method. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6233-6249.	2.8	41
13	Highly antifouling polymer-nanoparticle-nanoparticle/polymer hybrid membranes. <i>Science of the Total Environment</i> , 2022, 810, 152228.	8.0	41
14	Molecular dynamics simulations of oxidized vapor-grown carbon nanofiber surface interactions with vinyl ester resin monomers. <i>Carbon</i> , 2012, 50, 748-760.	10.3	40
15	Molecular Insights into the Loading and Dynamics of Doxorubicin on PEGylated Graphene Oxide Nanocarriers. <i>ACS Applied Bio Materials</i> , 2020, 3, 1354-1363.	4.6	37
16	Free volume and internal structural evolution during creep in model amorphous polyethylene by Molecular Dynamics simulations. <i>Polymer</i> , 2019, 170, 85-100.	3.8	30
17	Substantially enhanced durability of polyhedral oligomeric silsequioxane-polyimide nanocomposites against atomic oxygen erosion. <i>European Polymer Journal</i> , 2017, 92, 233-249.	5.4	28
18	Melting and solidification behavior of Cu/Al and Ti/Al bimetallic core/shell nanoparticles during additive manufacturing by molecular dynamics simulation. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	28

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19	Data mining and knowledge discovery in materials science and engineering: A polymer nanocomposites case study. <i>Advanced Engineering Informatics</i> , 2013, 27, 615-624.	8.0	23
20	Interatomic Potential for Hydrocarbons on the Basis of the Modified Embedded-Atom Method with Bond Order (MEAM-BO). <i>Journal of Physical Chemistry A</i> , 2017, 121, 1502-1524.	2.5	18
21	Confinement effects on the thermal stability of poly(ethylene oxide)/graphene nanocomposites: A reactive molecular dynamics simulation study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1026-1035.	2.1	16
22	Molecular simulation insights on the in vacuo adsorption of amino acids on graphene oxide surfaces with varying surface oxygen densities. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	15
23	Simulations of tensile bond rupture in single alkane molecules using reactive interatomic potentials. <i>Chemical Physics Letters</i> , 2015, 635, 278-284.	2.6	14
24	Thermal barrier coatings for cellulosic substrates: A statistically designed molecular dynamics study of the coating formulation effects on thermal conductivity. <i>Applied Surface Science</i> , 2022, 587, 152879.	6.1	14
25	Characterization, prediction, and optimization of flexural properties of vapor-grown carbon nanofiber/vinyl ester nanocomposites by response surface modeling. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2087-2099.	2.6	13
26	Homogeneous and biphasic cellulose acetate/room temperature ionic liquid membranes for gas separations: Solvent and phase-inversion casting vs. supported ionic liquid membranes. <i>Journal of Membrane Science</i> , 2019, 589, 117228.	8.2	13
27	Statistical characterization of the impact strengths of vapor-grown carbon nanofiber/vinyl ester nanocomposites using a central composite design. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1070-1080.	2.6	12
28	3D Graphene as an Unconventional Support Material for Ionic Liquid Membranes: Computational Insights into Gas Separations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 2203-2210.	3.7	12
29	Response surface predictions of the viscoelastic properties of vapor-grown carbon nanofiber/vinyl ester nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 234-247.	2.6	10
30	Comprehensive mechanical property classification of vapor-grown carbon nanofiber/vinyl ester nanocomposites using support vector machines. <i>Computational Materials Science</i> , 2015, 99, 316-325.	3.0	9
31	A fundamental investigation of the surfactant-stabilized single-walled carbon nanotube/epoxy resin suspensions by molecular dynamics simulation. <i>Materials Research Express</i> , 2017, 4, 015016.	1.6	9
32	Effects of Ionic Liquid Nanoconfinement on the CO <sub>2</sub> /CH <sub>4</sub> Separation in Poly(vinylidene fluoride)/1-Ethyl-3-methylimidazolium Thiocyanate Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44460-44469.	8.0	9
33	Thermal Analysis of Montmorillonite/Graphene Double-Layer Coating as a Potential Lightning Strike Protective Layer for Cross-Linked Epoxy by Molecular Dynamics Simulation. <i>ACS Applied Nano Materials</i> , 2018, 1, 2521-2525.	5.0	7
34	Molecular dynamics study of temperature and heating rate-dependent sintering of titanium nanoparticles and its influence on the sequent tension tests of the formed particle-chain products. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	7
35	Solvation of potential stable cations and anions originating from the Martian regolith in select ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 324, 114691.	4.9	5
36	Characterization and failure analysis of a polymeric clamp hanger component. <i>Engineering Failure Analysis</i> , 2012, 26, 230-239.	4.0	4

#	ARTICLE	IF	CITATIONS
37	Quantifying Parameter Sensitivity and Uncertainty for Interatomic Potential Design: Application to Saturated Hydrocarbons. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2018, 4, .	1.1	4
38	Application of materials informatics to vapor-grown carbon nanofiber/vinyl ester nanocomposites through self-organizing maps and clustering techniques. Computational Materials Science, 2019, 158, 98-109.	3.0	3
39	Doxorubicin Stability and Retention on PEGylated Graphene Oxide Nanocarriers Adjacent to Human Serum Albumin. ACS Applied Bio Materials, 2020, 3, 7646-7653.	4.6	3
40	On the potential of ionic liquids to recover metals from the Martian regolith: Computational insights into interfacial interactions. Journal of Molecular Liquids, 2020, 319, 114208.	4.9	3
41	Sintered Ti/Al core/shell nanoparticles: computational investigation of the effects of core volume fraction, heating rate, and room-temperature relaxation on tensile properties. Journal Physics D: Applied Physics, 2022, 55, 025302.	2.8	3
42	Creep characterization of vapor-grown carbon nanofiber/vinyl ester nanocomposites using a response surface methodology. Journal of Applied Polymer Science, 2015, 132, .	2.6	2
43	Dynamic Mechanical and Thermal Properties of Cellulose Nanocrystal/Epoxy Nanocomposites. Green Materials, 0, , 1-47.	2.1	1
44	High Strain Rate Behavior of Carbon Nanofiber Reinforced Vinyl Ester. , 2009, , .		0
45	Creep Compliance Characterization of Vapor-Grown Carbon Nanofiber/Vinyl Ester Nanocomposites Using a Central Composite Design of Experiments. , 2013, , .		0