

Morteza Ghorbanzadeh Ahangari

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67

papers

1,325

citations

23

h-index

32

g-index

69

ext. papers

1,525

ext. citations

3.2

avg, IF

5.22

L-index

#	Paper	IF	Citations
67	Pt-decorated graphene as superior media for H ₂ S adsorption: A first-principles study. <i>Applied Surface Science</i> , 2012 , 261, 697-704	6.7	92
66	Effect of carbon nanotubes content on crystallization kinetics and morphology of polypropylene. <i>Polymer Testing</i> , 2009 , 28, 46-52	4.5	72
65	Effect of nanoparticles on the micromechanical and surface properties of poly(urea-formaldehyde) composite microcapsules. <i>Composites Part B: Engineering</i> , 2014 , 56, 450-455	10	59
64	Study on Morphology, Rheology and Mechanical Properties of Thermoplastic Elastomer Polyolefin (TPO)/Carbon Nanotube Nanocomposites with Reference to the Effect of Polypropylene-grafted-Maleic Anhydride (PP-g-MA) as a Compatibilizer. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2011 , 60, 384-397	3	56
63	Experimental study on the mechanical and thermal properties of basalt fiber and nanoclay reinforced polymer concrete. <i>Composite Structures</i> , 2018 , 191, 231-238	5.3	53
62	Investigation of heavy metal atoms adsorption onto graphene and graphdiyne surface: A density functional theory study. <i>Superlattices and Microstructures</i> , 2016 , 100, 1094-1102	2.8	51
61	Effect of nanoparticles on the morphology and thermal properties of self-healing poly(urea-formaldehyde) microcapsules. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	47
60	DFT study of Ni, Cu, Cd and Ag heavy metal atom adsorption onto the surface of the zinc-oxide nanotube and zinc-oxide graphene-like structure. <i>Materials Chemistry and Physics</i> , 2018 , 220, 366-373	4.4	47
59	Effect of various defects on mechanical and electronic properties of zinc-oxide graphene-like structure: A DFT study. <i>Vacuum</i> , 2019 , 165, 26-34	3.7	34
58	Electronic and mechanical properties of single-walled carbon nanotubes interacting with epoxy: A DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 48, 148-156	3	34
57	Theoretical studies on the mechanical and electronic properties of 2D and 3D structures of Beryllium-Oxide graphene and graphene nanobud. <i>Applied Surface Science</i> , 2019 , 476, 36-48	6.7	32
56	Surface modification of carbon nanotubes using 3-aminopropyltriethoxysilane to improve mechanical properties of nanocomposite based polymer matrix: Experimental and Density functional theory study. <i>Applied Surface Science</i> , 2017 , 420, 167-179	6.7	31
55	Density functional theory study of adsorption properties of non-carbon, carbon and functionalized graphene surfaces towards the zinc and lead atoms. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 104, 275-285	3	30
54	Effect of defect and temperature on the mechanical and electronic properties of graphdiyne: A theoretical study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 66, 140-147	3	29
53	Adsorption of H ₂ S molecules on non-carbonic and decorated carbonic graphenes: A van der Waals density functional study. <i>Computational Materials Science</i> , 2014 , 92, 127-134	3.2	29
52	Combining density functional theory-finite element multi-scale method to predict mechanical properties of polypropylene/graphene nanocomposites: Experimental study. <i>Materials Chemistry and Physics</i> , 2017 , 201, 214-223	4.4	29
51	Density functional theory investigation of the mechanical properties of single-walled carbon nanotubes. <i>Computational Materials Science</i> , 2012 , 53, 377-381	3.2	29

50	Interlayer interaction and mechanical properties in multi-layer graphene, Boron-Nitride, Aluminum-Nitride and Gallium-Nitride graphene-like structure: A quantum-mechanical DFT study. <i>Superlattices and Microstructures</i> , 2017 , 112, 30-45	2.8	28
49	Atomistic modeling of interfacial interaction between polyvinyl chloride and polypropylene with Boron-Nitride monolayer sheet: A density functional theory study. <i>Superlattices and Microstructures</i> , 2017 , 111, 23-31	2.8	26
48	Density Functional Theory Study on the Mechanical Properties and Interlayer Interactions of Multi-layer Graphene: Carbonic, Silicon-Carbide and Silicene Graphene-like Structures. <i>Silicon</i> , 2019 , 11, 1235-1246	2.4	25
47	Micromechanical properties and morphologies of self-healing epoxy nanocomposites with microencapsulated healing agent. <i>Materials Chemistry and Physics</i> , 2015 , 151, 112-118	4.4	24
46	Carborane-wheeled nanocar moving on graphene/graphyne surfaces: van der Waals corrected density functional theory study. <i>Materials Chemistry and Physics</i> , 2014 , 148, 435-443	4.4	24
45	Damping Augmentation of Epoxy Using Carbon Nanotubes. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2010 , 60, 11-26	3	23
44	A DSC Study on the Nonisothermal Crystallization Kinetics of Polypropylene/Single-Walled Carbon Nanotube Nanocomposite. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 579-586		23
43	Effect of nano-nucleating agent addition on the isothermal and nonisothermal crystallization kinetics of isotactic polypropylene. <i>Polymer Bulletin</i> , 2011 , 66, 239-258	2.4	20
42	The shape memory, and the mechanical and thermal properties of TPU/ABS/CNT: a ternary polymer composite. <i>RSC Advances</i> , 2016 , 6, 101038-101047	3.7	19
41	Modeling of the interaction between polypropylene and monolayer sheets: a quantum mechanical study. <i>RSC Advances</i> , 2015 , 5, 80779-80785	3.7	18
40	Thermal and Structural Behaviors of Polypropylene Nanocomposites Reinforced with Single-Walled Carbon Nanotubes by Melt Processing Method. <i>Journal of Macromolecular Science - Physics</i> , 2009 , 48, 196-211	1.4	18
39	Density functional theory based molecular dynamics study on hydrogen storage capacity of C ₂₄ , B ₁₂ N ₁₂ , Al ₁₂ N ₁₂ , Be ₁₂ O ₁₂ , Mg ₁₂ O ₁₂ , and Zn ₁₂ O ₁₂ nanocages. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6745-6756	6.7	18
38	The Effect of Interaction between Nanofillers and Epoxy on Mechanical and Thermal Properties of Nanocomposites: Theoretical Prediction and Experimental Analysis. <i>Advances in Polymer Technology</i> , 2019 , 2019, 1-10	1.9	17
37	Elastic properties of SWCNTs with curved morphology: Density functional tight binding based treatment. <i>Solid State Communications</i> , 2012 , 152, 1526-1530	1.6	17
36	Mechanical properties of epoxy/basalt polymer concrete: Experimental and analytical study. <i>Structural Concrete</i> , 2018 , 19, 366-373	2.6	16
35	Doping of carbon nanotubes with aluminum atom to improve Pt adsorption. <i>Applied Surface Science</i> , 2014 , 290, 86-91	6.7	16
34	Mechanical and electronic properties of carbon nanobuds: First-principles study. <i>Solid State Communications</i> , 2015 , 203, 58-62	1.6	15
33	Study of a Polymer Blend/Nanoclay Nanocomposite of Polyethylene and Polyamide 6 Prepared by Mechanical Blending. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 80-85		15

32	First-principles vdW-DF study on the enhanced hydrogen storage capacity of Pt-adsorbed graphene. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2230	2	14
31	DFT study of Au adsorption on pure and Pt-decorated Alumina (110) surface. <i>Applied Surface Science</i> , 2017 , 416, 390-396	6.7	13
30	Density functional theory calculations of hydrogen molecule adsorption on monolayer molybdenum and tungsten disulfide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 57, 28-34	3	13
29	Density functional theory study of epoxy polymer chains adsorbing onto single-walled carbon nanotubes: electronic and mechanical properties. <i>Journal of Molecular Modeling</i> , 2013 , 19, 3127-34	2	13
28	Study of the Nonisothermal Crystallization Kinetics and Melting Behaviors of Polypropylene Reinforced with Single-Walled Carbon Nanotubes Nanocomposite. <i>Journal of Macromolecular Science - Physics</i> , 2009 , 48, 25-40	1.4	13
27	Effects of Nanoclay on Morphology, Rheological, and Mechanical Properties of Polyvinyl Chloride/Acrylonitrile-Butadiene-Styrene. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 413-418		12
26	Interaction between fullerene-wheeled nanocar and gold substrate: A DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 83, 174-179	3	11
25	Si-decorated graphene: a superior media for lithium-ions storage. <i>Structural Chemistry</i> , 2013 , 24, 1473-1483		11
24	Computational studies at the density functional theory (DFT) level about the surface functionalization of hexagonal monolayers by chitosan monomer. <i>Applied Surface Science</i> , 2018 , 440, 778-789	6.7	10
23	Density functional theory based molecular dynamics simulation study on the bulk modulus of multi-shell fullerenes. <i>Physica B: Condensed Matter</i> , 2013 , 423, 1-5	2.8	10
22	The Effect of Acid-Treatment of Carbon Nanotubes on the Thermal Kinetics of Isotactic Polypropylene. <i>Journal of Macromolecular Science - Physics</i> , 2011 , 50, 665-678	1.4	9
21	Effect of basalt, silica sand and fly ash on the mechanical properties of quaternary polymer concretes. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	9
20	Effect of acrylonitrile butadiene styrene on the shape memory, mechanical, and thermal properties of thermoplastic polyurethane. <i>Journal of Vinyl and Additive Technology</i> , 2018 , 24, E96-E104	2	8
19	Removal of methylmercaptan pollution using Ni and Pt-decorated graphene: an ab-initio DFT study. <i>Journal of Sulfur Chemistry</i> , 2020 , 41, 593-604	2.3	7
18	Epoxy monomer adsorption on Group III (B, Al, Ga) nitride nanotubes: vdW-DF studies on mechanical and electronic properties. <i>Superlattices and Microstructures</i> , 2014 , 67, 127-143	2.8	7
17	Investigation of the Mechanical Properties of Multi-Walled Carbon Nanotubes Using Density Functional Theory Calculations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012 , 9, 980-985	0.3	7
16	Adsorption of hazardous atoms on the surface of TON zeolite and bilayer silica: a DFT study. <i>Journal of Molecular Modeling</i> , 2020 , 26, 119	2	6
15	Effect of Polypropylene-grafted Maleic Anhydride Compatibilizer on the Physical Properties of Polypropylene/Carbon Nanotube Composites. <i>Polymers and Polymer Composites</i> , 2012 , 20, 559-566	0.8	6

14	Platinum adsorption onto graphene and oxidized graphene: A quantum mechanics study. <i>Materials Chemistry and Physics</i> , 2017 , 190, 17-24	4.4	5
13	Experimental and multiscale quantum mechanics modeling of the mechanical properties of PVC/graphene nanocomposite. <i>Journal of Composite Materials</i> , 2020 , 54, 4575-4590	2.7	5
12	Electronic, mechanical and thermal properties of SiO ₂ nanotube interacting with poly lactic-co-glycolic acid: Density functional theory and molecular dynamics studies. <i>Applied Surface Science</i> , 2021 , 546, 148894	6.7	4
11	Methane storage capacity of carbon fullerenes and their mechanical and electronic properties: Experimental and theoretical study. <i>Materials Chemistry and Physics</i> , 2018 , 211, 192-199	4.4	3
10	Shape memory and mechanical properties of TPU/ABS blends: The role of pristine versus organo-modified carbon nanotubes. <i>Polymer Composites</i> , 2018 , 39, E984-E995	3	3
9	Density functional theory study on the interaction of chitosan monomer with TiO ₂ , SiO ₂ and carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123576	4.4	3
8	Effect of Nanosilica on the Mechanical and Thermal Properties of Carbon Fiber/Polycarbonate Laminates. <i>Fibers and Polymers</i> , 2019 , 20, 1684-1689	2	2
7	Investigation of mechanical, thermal properties and non-isothermal crystallisation kinetic of polypropylene/single-walled carbon nanotube. <i>International Journal of Nano and Biomaterials</i> , 2009 , 2, 339	0.2	2
6	Alkane Cyclization: A DFT Study on the Effect of Chlorinated γ -Alumina. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 18-22	0.7	1
5	Atomistic Simulation of Mechanical Properties of Au ₃₂ Cluster Peapod Structures: Molecular Dynamics and Density Functional Theory. <i>Journal of Engineering Mechanics - ASCE</i> , 2018 , 144, 04018110	2.4	1
4	H ₂ and H ₂ S separation by adsorption using graphene and zinc oxide sheets: Molecular dynamic simulations. <i>Physica B: Condensed Matter</i> , 2021 , 619, 413175	2.8	1
3	Experiment and theory for acetylene adsorption in transformer oil. <i>Journal of Molecular Structure</i> , 2021 , 1230, 129860	3.4	0
2	Pt/Au nanoalloy supported on alumina and chlorided alumina: DFT and experimental analysis. <i>Materials Research Express</i> , 2018 , 5, 045007	1.7	
1	Mechanical properties of reinforced polymer concrete with three types of resin systems. <i>Proceedings of Institution of Civil Engineers: Construction Materials</i> , 1-9	0.8	