Peyman Aghdasi Mazandarani

List of Publications by Year
in descending order

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14 papers	275 citations	840776 11 h-index	1058476 14 g-index
14 all docs	14 docs citations	14 times ranked	79 citing authors

#	Article	IF	Citations
1	Influence of F and H adsorption on the elasto-plastic properties of silicene: A DFT investigation. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 113984.	2.7	31
2	Structural and mechanical properties characterization of arsenene nanosheets under doping effect of transition metals: A DFT study. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114349.	2.7	28
3	On the elastic and plastic properties of the bismuthene adsorbed by H, F, Cl and Br atoms. Superlattices and Microstructures, 2019, 135, 106242.	3.1	26
4	Structural and mechanical properties of pristine and adsorbed puckered arsenene nanostructures: A DFT study. Superlattices and Microstructures, 2020, 139, 106414.	3.1	26
5	Structural and mechanical properties of Sb and SbX (X=H, F, Cl and Br) monolayers. Solid State Communications, 2020, 311, 113849.	1.9	25
6	Investigating the effects of H and F adsorption on the elastic and plastic properties of arsenene nanosheets. Physica B: Condensed Matter, 2019, 574, 411672.	2.7	23
7	A DFT-based finite element approach for studying elastic properties, buckling and vibration of the arsenene. Journal of Molecular Graphics and Modelling, 2020, 101, 107725.	2.4	21
8	Investigating elastic and plastic characteristics of monolayer phosphorene under atomic adsorption by the density functional theory. Physica B: Condensed Matter, 2021, 600, 412603.	2.7	18
9	Torsional buckling analysis of MWCNTs considering quantum effects of fine scaling based on DFT and molecular mechanics method. Journal of Molecular Graphics and Modelling, 2021, 104, 107843.	2.4	17
10	On the derivation of coefficient of Morse potential function for the silicene: a DFT investigation. Journal of Molecular Modeling, 2021, 27, 190.	1.8	14
11	A DFT study on the mechanical properties of hydrogenated and fluorinated germanene sheets. Superlattices and Microstructures, 2021, 152, 106854.	3.1	13
12	Analysis of quantum effects of fine scaling on the axial buckling of MWCNTs based on the density functional theory and molecular mechanics method. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	11
13	Investigation of elastic properties, buckling and vibration of antimonene nanosheets through DFT-based finite element modeling. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115219.	3.5	11
14	A DFT investigation on the mechanical and structural properties of halogen- and metal-adsorbed silicene nanosheets. Materials Chemistry and Physics, 2022, 283, 126029.	4.0	11