

Alireza Aghajamali

List of Publications by Year in descending order

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38
papers

688
citations

516561

16
h-index

580701

25
g-index

38
all docs

38
docs citations

38
times ranked

295
citing authors

#	ARTICLE	IF	CITATIONS
1	Transferability in interatomic potentials for carbon. Carbon, 2019, 155, 624-634.	5.4	55
2	Analysis of cutoff frequency in a one-dimensional superconductor-metamaterial photonic crystal. Physica C: Superconductivity and Its Applications, 2016, 528, 5-8.	0.6	45
3	Transmittance properties in a magnetized cold plasma superconductor periodic multilayer. Applied Optics, 2016, 55, 6336.	2.1	42
4	Analysis of defect mode in a one-dimensional symmetric double-negative photonic crystal containing magnetized cold plasma defect. Applied Optics, 2015, 54, 8602.	2.1	36
5	Tunable photonic band gaps in an extrinsic Octonacci magnetized cold plasma quasicrystal. Physica B: Condensed Matter, 2017, 525, 41-45.	1.3	36
6	Plastic Deformation of Single-Crystal Diamond Nanopillars. Advanced Materials, 2020, 32, e1906458.	11.1	34
7	Effects of normal and oblique incidence on zero-gap in periodic lossy multilayer containing double-negative materials. Physica B: Condensed Matter, 2012, 407, 1287-1291.	1.3	32
8	Investigation of Reflectance Properties in 1D Ternary Annular Photonic Crystal Containing Semiconductor and High-T _c Superconductor. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1423-1431.	0.8	28
9	Study of optical reflectance properties in 1D annular photonic crystal containing double negative (DNG) metamaterials. Physica B: Condensed Matter, 2016, 489, 67-72.	1.3	28
10	Near-infrared tunable narrow filter properties in a 1D photonic crystal containing semiconductor metamaterial photonic quantum-well defect. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 79, 20-25.	1.3	27
11	Defect modes properties in periodic lossy multilayer containing negative index materials with symmetric and asymmetric geometric structures. Optik, 2014, 125, 839-843.	1.4	26
12	Double-negative multilayer containing an extrinsic random layer thickness magnetized cold plasma photonic quantum-well defect. Superlattices and Microstructures, 2017, 111, 248-254.	1.4	26
13	Effect of standard deviation, strength of magnetic field and electron density on the photonic band gap of an extrinsic disorder plasma photonic structure. Optical Materials, 2017, 72, 25-30.	1.7	23
14	Robust Photonic Bandgaps in Quasiperiodic and Random Extrinsic Magnetized Plasma. IEEE Transactions on Plasma Science, 2019, 47, 1726-1733.	0.6	23
15	Single-negative metamaterial periodic multilayer doped by magnetized cold plasma. Applied Optics, 2016, 55, 2086.	2.1	18
16	Effects of loss factors on zero permeability and zero permittivity gaps in 1D photonic crystal containing DNG materials. Physica B: Condensed Matter, 2014, 454, 170-174.	1.3	16
17	Analysis of Reflectance Properties in 1D Photonic Crystal Containing Metamaterial and High-Temperature Superconductor. Journal of Superconductivity and Novel Magnetism, 2017, 30, 343-351.	0.8	16
18	Properties of Defect Modes in Periodic Lossy Multilayer with Negative-Index-Materials. Communications in Theoretical Physics, 2013, 60, 80-86.	1.1	15

#	ARTICLE	IF	CITATIONS
19	Periodic multilayer magnetized cold plasma containing a doped semiconductor. Indian Journal of Physics, 2018, 92, 911-917.	0.9	15
20	Extrinsic magnetized plasma Fabry-Pérot resonator. Indian Journal of Physics, 2019, 93, 401-406.	0.9	15
21	Dodecanacci superconductor-metamaterial photonic quasicrystal. Optik, 2020, 222, 165290.	1.4	14
22	Properties of the defect modes in 1D lossy photonic crystals containing two types of negative-index-material defects. Journal of Electromagnetic Waves and Applications, 2013, 27, 2317-2329.	1.0	13
23	Near- and mid-infrared bandgaps in a 1D photonic crystal containing superconductor and semiconductor-metamaterial. International Journal of Modern Physics B, 2019, 33, 1950219.	1.0	11
24	Can force fields developed for carbon nanomaterials describe the isomerization energies of fullerenes?. Chemical Physics Letters, 2021, 779, 138853.	1.2	11
25	Near-infrared tunable narrow filter in a periodic multi-nanolayer doped by a superconductor photonic quantum-well. Applied Optics, 2016, 55, 9797.	2.1	10
26	Properties of the Band Gaps in 1D Ternary Lossy Photonic Crystal Containing Double-Negative Materials. Advances in Optical Technologies, 2014, 2014, 1-7.	0.8	8
27	Unphysical nucleation of diamond in the extended cutoff Tersoff potential. Molecular Simulation, 2018, 44, 164-171.	0.9	8
28	Modification of nanodiamonds by xenon implantation: A molecular dynamics study. Nuclear Instruments & Methods in Physics Research B, 2019, 453, 32-40.	0.6	8
29	Loss factor dependence of defect mode in a 1D defective lossy photonic crystal containing DNG materials. Optik, 2015, 126, 3158-3163.	1.4	7
30	Comparative Study of Carbon Force Fields for the Simulation of Carbon Onions. Australian Journal of Chemistry, 2021, 74, 709-714.	0.5	7
31	Investigation of reflectance properties in a symmetric defective annular semiconductor-superconductor photonic crystal with a radial defect layer. Physica B: Condensed Matter, 2021, 605, 412770.	1.3	6
32	Evidence for Glass Behavior in Amorphous Carbon. Journal of Carbon Research, 2020, 6, 50.	1.4	5
33	Epitaxial Formation of SiC on (100) Diamond. ACS Applied Electronic Materials, 2020, 2, 2003-2009.	2.0	5
34	Band gap engineering in constant total length nonmagnetized plasma-dielectric multilayers. Optik, 2020, 207, 164476.	1.4	5
35	Superior performance of the machine-learning GAP force field for fullerene structures. Structural Chemistry, 2022, 33, 505-510.	1.0	5
36	Correlation between the energetic and thermal properties of C40 fullerene isomers: An accurate machine-learning force field study. Micro and Nano Engineering, 2022, 14, 100105.	1.4	5

#	ARTICLE	IF	CITATIONS
37	Molecular Dynamics Approach for Predicting Release Temperatures of Noble Gases in Presolar Nanodiamonds. <i>Astrophysical Journal</i> , 2021, 916, 85.	1.6	4
38	Acoustic wave frequency filtering in constant total length phononic crystals of Al/Pb multilayer. <i>International Journal of Modern Physics B</i> , 2021, 35, .	1.0	0