

Abdolrasoul Gharaati

List of Publications by Year in descending order

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54
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	A new confinement potential in spherical quantum dots: Modified Gaussian potential. Superlattices and Microstructures, 2010, 48, 276-287.	3.1	112
2	Polarizability of a hydrogenic donor impurity in a ridge quantum wire. Current Applied Physics, 2010, 10, 199-202.	2.4	54
3	Effect of interface defects on high efficient perovskite solar cells. Optik, 2021, 227, 166061.	2.9	36
4	An analytical study of vibration in functionally graded piezoelectric nanoplates: nonlocal strain gradient theory. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1723-1740.	3.6	30
5	Structural, electronic and magnetic properties of CoZrIrSi quaternary Heusler alloy: First-principles study. Journal of Alloys and Compounds, 2020, 815, 152449.	5.5	28
6	Electron g-factor in quantum wire in the presence of Rashba effect and magnetic field. Superlattices and Microstructures, 2012, 51, 194-202.	3.1	22
7	Optical rectification and third harmonic generation of spherical quantum dots: Controlling via external factors. Physica B: Condensed Matter, 2015, 457, 212-217.	2.7	22
8	Effects of magnetic field and spin-orbit interaction on energy levels in 1D quantum wire: analytical solution. Optical and Quantum Electronics, 2012, 44, 425-436.	3.3	17
9	Investigation of Band Gap Width in Ternary 1D Photonic Crystal with Left-Handed Layer. Acta Physica Polonica A, 2014, 125, 36-38.	0.5	16
10	CHARACTERIZATION OF DEFECT MODES IN ONEDIMENSIONAL TERNARY METALLO-DIELECTRIC NANOLAYERED PHOTONIC CRYSTAL. Progress in Electromagnetics Research B, 2012, 37, 125-141.	1.0	15
11	PHOTONIC BAND STRUCTURES AND ENHANCEMENT OF OMNIDIRECTIONAL REFLECTION BANDS BY USING A TERNARY 1D PHOTONIC CRYSTAL INCLUDING LEFT-HANDED MATERIALS. Progress in Electromagnetics Research M, 2011, 20, 81-94.	0.9	14
12	Lande g-factor in semiconductor cylinder quantum dots under magnetic fields and spin-orbit interaction. Solid State Communications, 2017, 258, 17-20.	1.9	13
13	Dynamics of generalized sine-Gordon soliton in inhomogeneous media. Indian Journal of Physics, 2011, 85, 433-445.	1.8	12
14	The effect of temperature on one-dimensional nanometallic photonic crystals with coupled defects. Pramana - Journal of Physics, 2017, 88, 1.	1.8	12
15	Enhancement of transmission in 1D thermal tunable metallic photonic crystal filter with exponential gradation thickness. European Physical Journal D, 2020, 74, 1.	1.3	12
16	Comparative study of two thermal tunable filters with and without symmetrical linear gradation of thickness. Physica B: Condensed Matter, 2019, 553, 105-112.	2.7	8
17	Enhanced Microwave Absorption Properties of FeCo@TiO ₂ Core-Shell Nanoparticles. Current Nanoscience, 2018, 15, 163-168.	1.2	6
18	Investigation of a ternary 1D photonic crystal band gap width. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
19	A multichannel filter based on ternary nano metallo-dielectric photonic crystal with Thue-Morse defect layer structure. <i>Microelectronic Engineering</i> , 2018, 198, 93-97.	2.4	5
20	Ab Initio Calculations of New Full Heusler Alloys Rh ₂ ZrX (X=Al, Ga, In, Si, Ge, Sn). <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 2479-2488.	1.8	5
21	DESIGN OF AN ULTRA-FAST ALL-OPTICAL DARK SOLITON SWITCH IN A THREE-CORE NONLINEAR DIRECTIONAL COUPLER (TNLDC) MADE OF CHALCOGENIDE GLASSES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2012, 21, 1250038.	1.8	4
22	Analytical solution of fluxons in a non-homogeneous Josephson junction. <i>Waves in Random and Complex Media</i> , 2012, 22, 249-259.	2.7	3
23	Enhancement of magneto-optical responses in adjustable one-dimensional magnetophotonic crystals. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	3
24	Electrostatic Design and Fabrication a New Tunable Perveance Pierce Electron Gun. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 318-323.	3.0	3
25	Propagation of Spatial Solitons with Nonlinear Kerr Effect in Thermal Medium. <i>Acta Physica Polonica A</i> , 2007, 112, 891-896.	0.5	3
26	ANALYSIS OF TUNING CHANNEL FILTER BASED ON TERNARY LOSSY DEFECTIVE METALLO-DIELECTRIC NANO PHOTONIC CRYSTAL. <i>Progress in Electromagnetics Research Letters</i> , 2017, 68, 113-119.	0.7	3
27	Nonlinear optical characteristics of N,N'-bis(salicylidene)-p-phenylenediamine: Z-scan technique and quantum mechanical calculations. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2022, 36, 465-477.	1.1	3
28	ANALYTICAL CALCULATION OF BAND GAP OF A 1D PLANAR TERNARY PHOTONIC CRYSTAL BY SIMULATING WITH A SYMMETRIC LOSSLESS TRANSMISSION LINE. <i>Progress in Electromagnetics Research Letters</i> , 2012, 28, 101-109.	0.7	2
29	Band Structure Engineering in 2D Photonic Crystal Waveguide with Rhombic Cross-Section Elements. <i>Advances in Optical Technologies</i> , 2014, 2014, 1-5.	0.8	2
30	Structural and Magnetic Properties of Ordered/Disordered Sendust Powders Prepared by Mechanical Alloying. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 2547-2552.	1.8	2
31	Influence of Quantum Effects on the Magnetic Field Behavior in Overdense Plasma. <i>Physics of Wave Phenomena</i> , 2018, 26, 56-62.	1.1	2
32	Local field correction effects on quasi-particle inelastic scattering rate in a coupled-quantum-layers system at finite temperature. <i>Indian Journal of Physics</i> , 2018, 92, 1239-1243.	1.8	2
33	Investigation of the coupling efficiency between graded index photonic crystal-based flat lenses and various types of waveguides. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	1.8	2
34	The analytical investigation of temperature distribution in off-central diode-pumped lasers. <i>Pramana - Journal of Physics</i> , 2008, 70, 649-656.	1.8	1
35	MODELING OF ENHANCEMENT OF FOM OF SILICA GLASS BY INTRODUCING CORE-SHELL NANOMETALS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2012, 21, 1250020.	1.8	1
36	Effect of Relativistic Corrections on the Ignition Requirements for P11B Fuel. <i>Journal of Fusion Energy</i> , 2016, 35, 352-356.	1.2	1

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37	Entanglement of Photon-Added Nonlinear Coherent States Via a Beam Splitter. Reports on Mathematical Physics, 2016, 78, 245-252.	0.8	1
38	Enhancement of nonlinear optical properties of compounds of silica glass and metallic nanoparticle. Pramana - Journal of Physics, 2016, 86, 1329-1342.	1.8	1
39	Bouncing theory in the modified Weyl gravity and its stability conditions. Annals of Physics, 2018, 397, 458-473.	2.8	1
40	Investigation of transmission in a thermal tunable disordered metallic defective photonic crystal. Optik, 2021, 232, 166515.	2.9	1
41	Calculation of Anderson Localization Length by Using Generalized Quantum Kicked Rotator Analytically. Acta Physica Polonica A, 2012, 121, 30-32.	0.5	1
42	Enhancement of Faraday rotation in defect modes of one-dimensional magnetophotonic crystals. Materials Science-Poland, 2019, 37, 446-453.	1.0	1
43	A general method for calculation of Faraday rotation and transmittance in two-dimensional magneto-optic photonic crystals by solving vector-Helmholtz equation in anisotropic media. Physica Scripta, 2021, 96, 125517.	2.5	1
44	Bandgap structure and density of states of two-dimensional magnetized plasma photonic crystals. International Journal of Modern Physics B, 0, , .	2.0	1
45	Control of Self-Focusing and Self-Defocusing in the Waveguides Array. Japanese Journal of Applied Physics, 2011, 50, 05FG06.	1.5	0
46	Determination of Fundamental Parameters for Fast Ignition Using Deuteron Beam in DT and D3He Fuels. Journal of Fusion Energy, 2015, 34, 1134-1145.	1.2	0
47	Influence of Quantum Effects on Faraday Rotation in Overdense Plasma. Physics of Wave Phenomena, 2019, 27, 197-203.	1.1	0
48	One Dimensional Non-Linear Control of ST Fusion Reactor with D3He Fuel Using Back-Stepping Method. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo) Tj ETQq0 0 0 rgBT /Overbook 10 Tf50 297 Td		
49	Improvement of the polar magneto-optical Kerr effect in the spatial tunable one-dimensional magnetophotonic crystals. Optik, 2019, 182, 949-960.	2.9	0
50	MODELING OF MULTICHANNEL FILTER USING DEFECTIVE NANO PHOTONIC CRYSTAL WITH THUE-MORSE STRUCTURE. Progress in Electromagnetics Research Letters, 2017, 71, 61-67.	0.7	0
51	Tunable Photonic Crystals Containing Graphene and PEDOT:PSS Polymer in THz. Acta Physica Polonica A, 2021, 140, 433-437.	0.5	0
52	The geometrical and temperature-dependent local field correction effects on the effective mass renormalization in a 2DEG. Physica B: Condensed Matter, 2022, , 413877.	2.7	0
53	Fabrication and enhancement of a new high-current density scandate electron emitter for a pulsed Pierce electron gun. European Physical Journal Plus, 2022, 137, .	2.6	0