

# Abdolrasoul Gharaati

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

489  
citations

759233

12  
h-index

713466

21  
g-index

54  
all docs

54  
docs citations

54  
times ranked

336  
citing authors

#	ARTICLE	IF	CITATIONS
1	The geometrical and temperature-dependent local field correction effects on the effective mass renormalization in a 2DEG. <i>Physica B: Condensed Matter</i> , 2022, , 413877.	2.7	0
2	Fabrication and enhancement of a new high-current density scandate electron emitter for a pulsed Pierce electron gun. <i>European Physical Journal Plus</i> , 2022, 137, .	2.6	0
3	Nonlinear optical characteristics of N,Nâ€™-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
4	Effect of interface defects on high efficient perovskite solar cells. <i>Optik</i> , 2021, 227, 166061.	2.9	36
5	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
6	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
7	Investigation of transmission in a thermal tunable disordered metallic defective photonic crystal. <i>Optik</i> , 2021, 232, 166515.	2.9	1
8	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. <i>Physica Scripta</i> , 2021, 96, 125517.	2.5	1
9	Tunable Photonic Crystals Containing Graphene and PEDOT:PSS Polymer in THz. <i>Acta Physica Polonica A</i> , 2021, 140, 433-437.	0.5	0
10	Structural, electronic and magnetic properties of CoZrIrSi quaternary Heusler alloy: First-principles study. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152449.	5.5	28
11	Enhancement of transmission in 1D thermal tunable metallic photonic crystal filter with exponential gradation thickness. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	12
12	Enhancement of magneto-optical responses in adjustable one-dimensional magnetophotonic crystals. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	3
13	Influence of Quantum Effects on Faraday Rotation in Overdense Plasma. <i>Physics of Wave Phenomena</i> , 2019, 27, 197-203.	1.1	0
14	Ab Initio Calculations of New Full Heusler Alloys Rh <sub>2</sub> ZrX (X=Al, Ga, In, Si, Ge, Sn). <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 2479-2488.	1.8	5
15	One Dimensional Non-Linear Control of ST Fusion Reactor with D3He Fuel Using Back-Stepping Method. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i>		
16	Improvement of the polar magneto-optical Kerr effect in the spatial tunable one-dimensional magnetophotonic crystals. <i>Optik</i> , 2019, 182, 949-960.	2.9	0
17	An analytical study of vibration in functionally graded piezoelectric nanoplates: nonlocal strain gradient theory. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 1723-1740.	3.6	30
18	Comparative study of two thermal tunable filters with and without symmetrical linear gradation of thickness. <i>Physica B: Condensed Matter</i> , 2019, 553, 105-112.	2.7	8

#	ARTICLE	IF	CITATIONS
19	Enhancement of Faraday rotation in defect modes of one-dimensional magnetophotonic crystals. <i>Materials Science-Poland</i> , 2019, 37, 446-453.	1.0	1
20	Bouncing theory in the modified Weyl gravity and its stability conditions. <i>Annals of Physics</i> , 2018, 397, 458-473.	2.8	1
21	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
22	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
23	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
24	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
25	Enhanced Microwave Absorption Properties of FeCo@TiO <sub>2</sub> Core-Shell Nanoparticles. <i>Current Nanoscience</i> , 2018, 15, 163-168.	1.2	6
26	The effect of temperature on one-dimensional nanometallic photonic crystals with coupled defects. <i>Pramana - Journal of Physics</i> , 2017, 88, 1.	1.8	12
27	Lande g-factor in semiconductor cylinder quantum dots under magnetic fields and spin-orbit interaction. <i>Solid State Communications</i> , 2017, 258, 17-20.	1.9	13
28	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
29	MODELING OF MULTICHANNEL FILTER USING DEFECTIVE NANO PHOTONIC CRYSTAL WITH THUE-MORSE STRUCTURE. <i>Progress in Electromagnetics Research Letters</i> , 2017, 71, 61-67.	0.7	0
30	Effect of Relativistic Corrections on the Ignition Requirements for P11B Fuel. <i>Journal of Fusion Energy</i> , 2016, 35, 352-356.	1.2	1
31	Entanglement of Photon-Added Nonlinear Coherent States Via a Beam Splitter. <i>Reports on Mathematical Physics</i> , 2016, 78, 245-252.	0.8	1
32	Enhancement of nonlinear optical properties of compounds of silica glass and metallic nanoparticle. <i>Pramana - Journal of Physics</i> , 2016, 86, 1329-1342.	1.8	1
33	Determination of Fundamental Parameters for Fast Ignition Using Deuteron Beam in DT and D <sub>3</sub> He Fuels. <i>Journal of Fusion Energy</i> , 2015, 34, 1134-1145.	1.2	0
34	Optical rectification and third harmonic generation of spherical quantum dots: Controlling via external factors. <i>Physica B: Condensed Matter</i> , 2015, 457, 212-217.	2.7	22
35	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
36	Investigation of Band Gap Width in Ternary 1D Photonic Crystal with Left-Handed Layer. <i>Acta Physica Polonica A</i> , 2014, 125, 36-38.	0.5	16

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37	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
38	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
39	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
40	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
41	CHARACTERIZATION OF DEFECT MODES IN ONEDIMENSIONAL TERNARY METALLO-DIELECTRIC NANOLAYERED PHOTONIC CRYSTAL. <i>Progress in Electromagnetics Research B</i> , 2012, 37, 125-141.	1.0	15
42	Effects of magnetic field and spin-orbit interaction on energy levels in 1D quantum wire: analytical solution. <i>Optical and Quantum Electronics</i> , 2012, 44, 425-436.	3.3	17
43	Electron g-factor in quantum wire in the presence of Rashba effect and magnetic field. <i>Superlattices and Microstructures</i> , 2012, 51, 194-202.	3.1	22
44	Calculation of Anderson Localization Length by Using Generalized Quantum Kicked Rotator Analytically. <i>Acta Physica Polonica A</i> , 2012, 121, 30-32.	0.5	1
45	PHOTONIC BAND STRUCTURES AND ENHANCEMENT OF OMNIDIRECTIONAL REFLECTION BANDS BY USING A TERNARY 1D PHOTONIC CRYSTAL INCLUDING LEFT-HANDED MATERIALS. <i>Progress in Electromagnetics Research M</i> , 2011, 20, 81-94.	0.9	14
46	Dynamics of generalized sine-Gordon soliton in inhomogeneous media. <i>Indian Journal of Physics</i> , 2011, 85, 433-445.	1.8	12
47	Control of Self-Focusing and Self-Defocusing in the Waveguides Array. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 05FG06.	1.5	0
48	A new confinement potential in spherical quantum dots: Modified Gaussian potential. <i>Superlattices and Microstructures</i> , 2010, 48, 276-287.	3.1	112
49	Polarizability of a hydrogenic donor impurity in a ridge quantum wire. <i>Current Applied Physics</i> , 2010, 10, 199-202.	2.4	54
50	Investigation of a ternary 1D photonic crystal band gap width. , 2010, , .		5
51	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
52	Propagation of Spatial Solitons with Nonlinear Kerr Effect in Thermal Medium. <i>Acta Physica Polonica A</i> , 2007, 112, 891-896.	0.5	3
53	Bandgap structure and density of states of two-dimensional magnetized plasma photonic crystals. <i>International Journal of Modern Physics B</i> , 0, , .	2.0	1