

Gh Alahyarizadeh

List of Publications by Year in descending order

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papers

661
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times ranked

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#	ARTICLE	IF	CITATIONS
1	Comparative investigation of thermal and mechanical properties of cross-linked epoxy polymers with different curing agents by molecular dynamics simulation. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 62, 157-164.	2.4	101
2	The thermo-mechanical properties estimation of fullerene-reinforced resin epoxy composites by molecular dynamics simulation – A comparative study. <i>Polymer</i> , 2016, 88, 9-18.	3.8	81
3	Synthesis of enhanced phosphonic functional groups mesoporous silica for uranium selective adsorption from aqueous solutions. <i>Scientific Reports</i> , 2017, 7, 11675.	3.3	57
4	A novel exergy optimization of Bushehr nuclear power plant by gravitational search algorithm (GSA). <i>Energy</i> , 2018, 148, 373-385.	8.8	46
5	Effect of different EBL structures on deep violet InGaN laser diodes performance. <i>Optics and Laser Technology</i> , 2016, 76, 106-112.	4.6	29
6	Economic evaluation of Qeshm island MED-desalination plant coupling with different energy sources including fossils and nuclear power plants. <i>Desalination</i> , 2017, 422, 101-112.	8.2	27
7	Economic and Efficient phosphonic functional groups mesoporous silica for uranium selective adsorption from aqueous solutions. <i>Scientific Reports</i> , 2019, 9, 9686.	3.3	24
8	Hydrothermal synthesis of magnetic CoFe ₂ O ₄ nanoparticles and CoFe ₂ O ₄ /MWCNTs nanocomposites for U and Pb removal from aqueous solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 317, 431-442.	1.5	23
9	Comparative study on mechanical properties of three different SiC polytypes (3C, 4H and 6H) under high pressure: First-principle calculations. <i>Vacuum</i> , 2018, 154, 37-43.	3.5	23
10	Solvothermal synthesis and characterization of magnetic Fe ₃ O ₄ nanoparticle by different sodium salt sources. <i>Materials Science-Poland</i> , 2017, 35, 50-57.	1.0	21
11	Analytical and visual modeling of InGaN/GaN single quantum well laser based on rate equations. <i>Optics and Laser Technology</i> , 2012, 44, 12-20.	4.6	19
12	Improvement of the performance characteristics of deep violet InGaN multi-quantum-well laser diodes using step-graded electron blocking layers and a delta barrier. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	19
13	A DFT study on pressure dependency of TiC and ZrC properties: Interconnecting elastic constants, thermodynamic, and mechanical properties. <i>Ceramics International</i> , 2021, 47, 9990-10005.	4.8	18
14	Insights into the primary radiation damage of silicon by a machine learning interatomic potential. <i>Materials Research Letters</i> , 2020, 8, 364-372.	8.7	15
15	Simulation and optimization of deep violet InGaN double quantum well laser. <i>Optics Communications</i> , 2012, 285, 746-750.	2.1	14
16	Effect of annealing temperature on IR-detectors based on InN nanostructures. <i>Vacuum</i> , 2014, 106, 46-48.	3.5	13
17	Energy management of nuclear desalination plant by efficient coupling a pressurized water reactor and a multi effect distillation system - thermodynamic evaluation. , 0, 151, 34-46.		13
18	Numerical study of performance characteristics of deep violet InGaN DQW laser diodes with AlInGaN quaternary multi quantum barrier electron blocking layer. <i>Optik</i> , 2013, 124, 6765-6768.	2.9	12

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19	Mechanical properties of carbon nanotube- and graphene-reinforced Araldite LY/Aradur HY 5052 resin epoxy composites: a molecular dynamics study. <i>Journal of Molecular Modeling</i> , 2019, 25, 191.	1.8	12
20	Performance characteristics of deep violet InGaN DQW laser diodes with InGaN/GaN superlattice waveguide layers. <i>Optik</i> , 2014, 125, 341-344.	2.9	11
21	STRUCTURE AND OPTICAL PROPERTIES OF InN THIN FILM GROWN ON SiC BY REACTIVE RF MAGNETRON SPUTTERING. <i>Surface Review and Letters</i> , 2013, 20, 1350008.	1.1	9
22	Evaluation of accident tolerant cladding materials in a severe accident of the BNPP. <i>Annals of Nuclear Energy</i> , 2019, 129, 214-223.	1.8	9
23	The role of chromium and nickel on the thermal and mechanical properties of FeNiCr austenitic stainless steels under high pressure and temperature: a molecular dynamics study. <i>Molecular Simulation</i> , 2019, 45, 672-684.	2.0	8
24	Enhancement of performance characteristics of violet InGaN DQW laser diodes using InGaN/GaN multilayer barriers. <i>Optik</i> , 2016, 127, 7635-7641.	2.9	7
25	The effect of AlGaIn bulk and AlGaIn/GaN superlattice cladding layers on performance characteristics of deep violet InGaN DQW lasers. <i>Vacuum</i> , 2017, 141, 139-143.	3.5	7
26	Evaluation of atmospheric dispersion of radioactive materials in a severe accident of the BNPP based on Gaussian model. <i>Progress in Nuclear Energy</i> , 2019, 113, 114-127.	2.9	7
27	First principle study on the mechanical response of ZrC and ZrN at high-pressure conditions: anisotropy perspective. <i>Molecular Simulation</i> , 2021, 47, 1135-1148.	2.0	6
28	Effect of QW thickness and numbers on performance characteristics of deep violet InGaN MQW lasers. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550081.	2.0	5
29	Study on effect of quantum well number on performance characteristics of GaN-based vertical cavity surface emitting laser. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 50, 61-66.	2.7	4
30	Improvement of performance characteristics of deep violet InGaN DQW lasers using a strip DQW active region. <i>Optik</i> , 2014, 125, 4911-4915.	2.9	4
31	Comparative Study on Absorbed Dose Distribution of Potato and Onion in X-ray and Electron Beam System by MCNPX2.6 Code. <i>Mapan - Journal of Metrology Society of India</i> , 2019, 34, 19-29.	1.5	4
32	Primary radiation damage in silicon from the viewpoint of a machine learning interatomic potential. <i>Physical Review Materials</i> , 2021, 5, .	2.4	3
33	Dependence of output emission wavelength and LD performance on barriers material and thickness. <i>Optik</i> , 2016, 127, 4815-4818.	2.9	2
34	Performance characteristics of deep violet InGaN DQW lasers based on different compliance layers. <i>Optik</i> , 2017, 131, 194-200.	2.9	2
35	Improved performance characteristics of violet InGaN MQW LDs through asymmetric W-shaped quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114570.	2.7	2
36	The effect of electron blocking layer on the performance of MQW oxide-confined intracavity-contacted InGaIn-based vertical cavity surface emitting lasers. <i>Optik</i> , 2015, 126, 1377-1380.	2.9	1

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37	The study of temperature effect on the performance characteristics of the InGaN-based vertical cavity surface emitting laser (VCSEL) by solving the rate equations. International Journal of Modern Physics B, 2016, 30, 1650150.	2.0	1
38	Investigation of spectral interference effects on determination of uranium concentration in phosphate ore by inductively coupled plasma optical emission spectroscopy. Radiochimica Acta, 2017, 105, 95-108.	1.2	1
39	The burnup raising feasibility by studying the effects of Th and U contents on the thermophysical and mechanical properties of Th _{1-x} U _x O ₂ solid solutions. Progress in Nuclear Energy, 2021, 134, 103644.	2.9	1
40	INFLUENCE OF WAVEGUIDE LAYERS ON DEEP VIOLET InGaN DQW LASERS PERFORMANCE. Surface Review and Letters, 2015, 22, 1550051.	1.1	0
41	The influence of quaternary electron blocking layer on the performance characteristics of intracavity-contacted oxide-confined InGaN-based vertical cavity surface emitting lasers. International Journal of Modern Physics B, 2015, 29, 1550230.	2.0	0
42	Doping effects in p- and n-type layers of 390-nm InGaN DQW lasers. International Journal of Modern Physics B, 2015, 29, 1550118.	2.0	0
43	The Investigation of Carrier Mobility Effect on the Performance Characteristics of the InGaN-Based Vertical Cavity Surface Emitting Laser (VCSEL) by Solving the Rate Equations. Micro and Nanosystems, 2022, 14, 375-386.	0.6	0