

# Gh Alahyarizadeh

## List of Publications by Year in descending order

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43  
papers

661  
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623734

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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. <i>Micro and Nanosystems</i> , 2022, 14, 375-386.	0.6	0
2	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
3	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
4	The burnup raising feasibility by studying the effects of Th and U contents on the thermophysical and mechanical properties of Th <sub>1-x</sub> U <sub>x</sub> O <sub>2</sub> solid solutions. <i>Progress in Nuclear Energy</i> , 2021, 134, 103644.	2.9	1
5	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
6	Primary radiation damage in silicon from the viewpoint of a machine learning interatomic potential. <i>Physical Review Materials</i> , 2021, 5, .	2.4	3
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	A novel exergy optimization of Bushehr nuclear power plant by gravitational search algorithm (GSA). <i>Energy</i> , 2018, 148, 373-385.	8.8	46
15	Hydrothermal synthesis of magnetic CoFe <sub>2</sub> O <sub>4</sub> nanoparticles and CoFe <sub>2</sub> O <sub>4</sub> /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
16	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
17	Solvothermal synthesis and characterization of magnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticle by different sodium salt sources. <i>Materials Science-Poland</i> , 2017, 35, 50-57.	1.0	21
18	The effect of AlGaIn bulk and AlGaIn/GaN superlattice cladding layers on performance characteristics of deep violet InGaIn DQW lasers. <i>Vacuum</i> , 2017, 141, 139-143.	3.5	7

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19	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
20	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
21	Investigation of spectral interference effects on determination of uranium concentration in phosphate ore by inductively coupled plasma optical emission spectroscopy. <i>Radiochimica Acta</i> , 2017, 105, 95-108.	1.2	1
22	Performance characteristics of deep violet InGaN DQW lasers based on different compliance layers. <i>Optik</i> , 2017, 131, 194-200.	2.9	2
23	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
24	Dependence of output emission wavelength and LD performance on barriers material and thickness. <i>Optik</i> , 2016, 127, 4815-4818.	2.9	2
25	The study of temperature effect on the performance characteristics of the InGaN-based vertical cavity surface emitting laser (VCSEL) by solving the rate equations. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650150.	2.0	1
26	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
27	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
28	The effect of electron blocking layer on the performance of MQW oxide-confined intracavity-contacted InGaN-based vertical cavity surface emitting lasers. <i>Optik</i> , 2015, 126, 1377-1380.	2.9	1
29	INFLUENCE OF WAVEGUIDE LAYERS ON DEEP VIOLET InGaN DQW LASERS PERFORMANCE. <i>Surface Review and Letters</i> , 2015, 22, 1550051.	1.1	0
30	The influence of quaternary electron blocking layer on the performance characteristics of intracavity-contacted oxide-confined InGaN-based vertical cavity surface emitting lasers. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550230.	2.0	0
31	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
32	Doping effects in p- and n-type layers of 390-nm InGaN DQW lasers. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550118.	2.0	0
33	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
34	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
35	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
36	Effect of annealing temperature on IR-detectors based on InN nanostructures. <i>Vacuum</i> , 2014, 106, 46-48.	3.5	13

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37	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
38	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
39	STRUCTURE AND OPTICAL PROPERTIES OF $\text{InN}$ THIN FILM GROWN ON $\text{SiC}$ BY REACTIVE RF MAGNETRON SPUTTERING. <i>Surface Review and Letters</i> , 2013, 20, 1350008.	1.1	9
40	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
41	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
42	Simulation and optimization of deep violet InGaN double quantum well laser. <i>Optics Communications</i> , 2012, 285, 746-750.	2.1	14
43	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