

# Ali Mir

## List of Publications by Year in descending order

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63  
papers

1,685  
citations

331670

21  
h-index

302126

39  
g-index

66  
all docs

66  
docs citations

66  
times ranked

919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Phosphorous-Based Nanostructures for Refractive Index Sensing with High Figure of Merit in the Mid-infrared. Plasmonics, 2022, 17, 639-646.	3.4	7
2	Design and Analytical Evaluation of a High Resistance Sensitivity Bolometer Sensor Based on Plasmonic Metasurface Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-7.	2.9	5
3	Design Optimization and Fabrication of Graphene/J-Aggregate Kretschmann-Raether Devices for Refractive Index Sensing Using Plasmon-Induced Transparency Phenomena. Plasmonics, 2022, 17, 811-821.	3.4	10
4	Modeling of Relative Intensity Noise in QD-VCSEL. Journal of Lightwave Technology, 2022, 40, 3891-3899.	4.6	1
5	Enhanced sensing of terahertz surface plasmon polaritons in graphene/J-aggregate coupler using FDTD method. Diamond and Related Materials, 2022, 125, 109005.	3.9	23
6	Sensitivity-Enhanced Surface Plasmon Resonance Sensor with Bimetal/ Tungsten Disulfide (WS <sub>2</sub> )/MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) Hybrid Structure. Plasmonics, 2022, 17, 1973-1984.	3.4	11
7	Numerical Modeling of an Integrable and Tunable Plasmonic Pressure Sensor with Nanostructure Grating. Plasmonics, 2021, 16, 27-36.	3.4	22
8	Analytical and Numerical Models of a Highly Sensitive MDM Plasmonic Nano-structure in Near-infrared Range. Plasmonics, 2021, 16, 413-418.	3.4	7
9	Analytical Modeling and Design of a Graphene Metasurface Sensor for Thermo-Optical Detection of Terahertz Plasmons. IEEE Sensors Journal, 2021, 21, 4525-4532.	4.7	26
10	Design and Simulation of a Novel Tunable Terahertz Biosensor Based on Metamaterials for Simultaneous Monitoring of Blood and Urine Components. Plasmonics, 2021, 16, 1537-1548.	3.4	33
11	Proposal of a doping-less tunneling carbon nanotube field-effect transistor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 115016.	3.5	6
12	Non-Destructive Label-Free Biomaterials Detection Using Tunneling Carbon Nanotube-Based Biosensor. IEEE Sensors Journal, 2021, 21, 8847-8854.	4.7	11
13	Design and simulation of a very fast and compact all-optical Full-Subtractor based on nonlinear effect in 2D photonic crystals. Optical and Quantum Electronics, 2021, 53, 1.	3.3	3
14	Design and Analysis of an Ultra-Broadband Polarization-Independent Wide-Angle Plasmonic THz Absorber. IEEE Journal of Quantum Electronics, 2021, 57, 1-8.	1.9	16
15	Reconfigurable and scalable 2,4-and 6-channel plasmonics demultiplexer utilizing symmetrical rectangular resonators containing silver nano-rod defects with FDTD method. Scientific Reports, 2021, 11, 13628.	3.3	26
16	Analysis of optical power budget in DWDM-FSO link under outdoor atmospheric channel model. Optical and Quantum Electronics, 2021, 53, 1.	3.3	6
17	A tunable nonlinear plasmonic multiplexer/demultiplexer device based on nanoscale ring resonators. Photonic Network Communications, 2021, 42, 209-218.	2.7	8
18	Design and Fabrication of an Ultra-Wide Stopband Compact Bandpass Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 265-269.	3.0	25

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19	Design and performance analysis of wrap-gate CNTFET-based ring oscillators for IoT applications. The Integration VLSI Journal, 2020, 70, 116-125.	2.1	12
20	Numerical analysis of tunable nonlinear plasmonic router based on nanoscale ring resonators. Optical and Quantum Electronics, 2020, 52, 1.	3.3	7
21	Nanosensors for street-lighting system. , 2020, , 209-225.		11
22	Carbon nanotube field effect transistorsâ€‘based gas sensors. , 2020, , 171-183.		12
23	Ultra high-sensitivity and tunable dual-band perfect absorber as a plasmonic sensor. Optics and Laser Technology, 2020, 127, 106201.	4.6	58
24	Very simple all-optical half-subtractor based on two-dimensional photonic crystals. Optical and Quantum Electronics, 2020, 52, 1.	3.3	7
25	SiO2â€‘Silver Metasurface Architectures for Ultrasensitive and Tunable Plasmonic Biosensing. Plasmonics, 2020, 15, 1935-1942.	3.4	17
26	New structure of tunneling carbon nanotube FET with electrical junction in part of drain region and step impurity distribution pattern. AEU - International Journal of Electronics and Communications, 2020, 117, 153102.	2.9	12
27	A multimode graphene plasmonic perfect absorber at terahertz frequencies. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 122, 114159.	2.7	30
28	Ultra-fast all-optical 2-to-4 decoder based on a photonic crystal structure. Applied Optics, 2020, 59, 5422.	1.8	35
29	Design and Simulation of a High-Selective Plasmon-Induced Reflectance in Coupled Dielectric-Metal-Dielectric Nano-structure for Sensor Devices and Slow Light Propagation. Plasmonics, 2019, 14, 511-521.	3.4	20
30	Tunable Plasmon Induced Transparency in Graphene and Hyperbolic Metamaterial-Based Structure. IEEE Photonics Journal, 2019, 11, 1-10.	2.0	61
31	A robust and energy-efficient near-threshold SRAM cell utilizing ballistic carbon nanotube wrap-gate transistors. AEU - International Journal of Electronics and Communications, 2019, 110, 152874.	2.9	13
32	Nanoscale Sensor-Based Tunneling Carbon Nanotube Transistor for Toxic Gases Detection: A First-Principle Study. IEEE Sensors Journal, 2019, 19, 7373-7377.	4.7	42
33	Design and simulation of an all optical full-adder based on photonic crystals. Optical and Quantum Electronics, 2019, 51, 1.	3.3	50
34	Graphene Sensor Based on Surface Plasmon Resonance for Optical Scanning. IEEE Photonics Technology Letters, 2019, 31, 643-646.	2.5	89
35	Supersensitive and Tunable Nano-Biosensor for Cancer Detection. IEEE Sensors Journal, 2019, 19, 4874-4881.	4.7	88
36	Improving the Performance of 2-To-4 Optical Decoders Based on Photonic Crystal Structures. Crystals, 2019, 9, 635.	2.2	37

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37	An Algorithm for Designing of Cascaded Helical Flux Compression Generator. Instruments and Experimental Techniques, 2019, 62, 838-849.	0.5	0
38	2D-FDTD simulation of ultra-compact multifunctional logic gates with nonlinear photonic crystal. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 811.	2.1	67
39	Evaluation of Room-Temperature Performance of Ultra-Small Single-Electron Transistor-Based Analog-to-Digital Convertors. Journal of Circuits, Systems and Computers, 2018, 27, 1850217.	1.5	5
40	Investigating the Characteristics of a Double Circular Ring Resonators Slow Light Device Based on the Plasmonics-Induced Transparency Coupled with Metal-Dielectric-Metal Waveguide System. Plasmonics, 2018, 13, 1523-1534.	3.4	11
41	Highly sensitive nano-scale plasmonic biosensor utilizing Fano resonance metasurface in THz range: Numerical study. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 104, 233-240.	2.7	97
42	On the performance of blue-green waves propagation through underwater optical wireless communication system. Photonic Network Communications, 2018, 36, 309-315.	2.7	18
43	High Sensitivity and Tunable Nanoscale Sensor Based on Plasmon-Induced Transparency in Plasmonic Metasurface. IEEE Sensors Journal, 2018, 18, 7047-7054.	4.7	124
44	Semi-analytical modeling of high performance nano-scale complementary logic gates utilizing ballistic carbon nanotube transistors. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 104, 286-296.	2.7	29
45	Broadly tunable and bidirectional terahertz graphene plasmonic switch based on enhanced Goos-Hänchen effect. Applied Surface Science, 2018, 453, 358-364.	6.1	122
46	Study of DWDM-ROF link nonlinear effects using direct and external ODSB modulation formats. Journal of Optics (India), 2018, 47, 263-271.	1.7	2
47	Nanoscale, tunable, and highly sensitive biosensor utilizing hyperbolic metamaterials in the near-infrared range. Applied Optics, 2018, 57, 9447.	1.8	111
48	Design and simulation of a flexible and ultra-sensitive biosensor based on frequency selective surface in the microwave range. Optical and Quantum Electronics, 2017, 49, 1.	3.3	14
49	Method proposing a slow light ring resonator structure coupled with a metal-dielectric-metal waveguide system based on plasmonic induced transparency. Applied Optics, 2017, 56, 4496.	2.1	13
50	Design and Simulation of Room-Temperature Logic Functions Using a Three-Gate Single Electron Transistor in Silicon Quantum Dot. Journal of Computational and Theoretical Nanoscience, 2017, 14, 991-998.	0.4	2
51	Performance analysis of single-electron transistor at room-temperature for periodic symmetric functions operation. Journal of Engineering, 2016, 2016, 352-356.	1.1	5
52	Realization of Ultra-Accurate and Compact All-Optical Photonic Crystal OR Logic Gate. IEEE Photonics Technology Letters, 2016, 28, 2387-2390.	2.5	61
53	All-optical XOR and OR logic gates based on line and point defects in 2-D photonic crystal. Optics and Laser Technology, 2016, 78, 139-142.	4.6	107
54	Analysis and Investigation of Slow Light Based on Plasmonic Induced Transparency in Metal-Dielectric-Metal Ring Resonator in a Waveguide System with Different Geometrical Designs. Optics and Photonics Journal, 2016, 06, 177-184.	0.4	10

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55	Ultra optimized Y-defect waveguide for realizing reliable and robust all-optical logical AND gate. , 2015, , .		2
56	Design and analysis of an all-optical Demultiplexer based on photonic crystals. Infrared Physics and Technology, 2015, 68, 193-196.	2.9	22
57	High performance avalanche quantum dot photodetector for mid-infrared detection. Optical and Quantum Electronics, 2015, 47, 1207-1217.	3.3	7
58	Design and analysis of quantum ring photodetector enhanced by metallic slits. , 2013, , .		0
59	Design and analysis of a terahertz resonant tunneling quantum ring in a well photodetector. , 2012, , .		1
60	Resonant cavity enhanced quantum ring terahertz photodetector. , 2012, , .		0
61	Design and analysis of a tunable liquid crystal switch/filter with metallic nano-slits. Liquid Crystals, 0, , 1-5.	2.2	2
62	Improving the Performance of a Doping-Less Carbon Nanotube FET with Dual Junction Source and Drain Regions: Numerical Studies. Journal of Circuits, Systems and Computers, 0, , .	1.5	3
63	Outstanding tunable electrical and optical characteristics in monolayer silicene at high terahertz frequencies. Journal of Computational Electronics, 0, , .	2.5	2