

Jalil Ali

List of Publications by Year in descending order

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63
papers

871
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516215

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525886

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63
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482
citing authors

#	ARTICLE	IF	CITATIONS
1	BaTiO ₃ -Graphene-Affinity Layer-Based Surface Plasmon Resonance (SPR) Biosensor for Pseudomonas Bacterial Detection. Plasmonics, 2020, 15, 1221-1229.	1.8	76
2	Optical vortices generated by a PANDA ring resonator for drug trapping and delivery applications. Biomedical Optics Express, 2011, 2, 159.	1.5	60
3	Modeling of highly sensitive surface plasmon resonance (SPR) sensor for urine glucose detection. Optical and Quantum Electronics, 2020, 52, 1.	1.5	54
4	Numerical Experiments on Radiative Cooling and Collapse in Plasma Focus Operated in Krypton. Journal of Fusion Energy, 2013, 32, 42-49.	0.5	44
5	Refractive index biosensor using sidewall gratings in dual-slot waveguide. Optics Communications, 2017, 402, 408-412.	1.0	40
6	Porous Silicon Based Bragg-Grating Resonator for Refractive Index Biosensor. Photonic Sensors, 2018, 8, 248-254.	2.5	40
7	Ultrafast all-optical switching using signal flow graph for PANDA resonator. Applied Optics, 2013, 52, 2866.	0.9	38
8	Modeling and Analysis of a Microresonating Biosensor for Detection of Salmonella Bacteria in Human Blood. Sensors, 2014, 14, 12885-12899.	2.1	37
9	Optical biosensor based on a cladding modulated grating waveguide. Optik, 2018, 166, 103-109.	1.4	31
10	Analytical Vernier Effects of a PANDA Ring Resonator for Microforce Sensing Application. IEEE Nanotechnology Magazine, 2012, 11, 707-712.	1.1	30
11	Graphical Approach for Nonlinear Optical Switching by PANDA Vernier Filter. IEEE Photonics Technology Letters, 2013, 25, 1470-1473.	1.3	27
12	Nano force sensing using symmetric double stage micro resonator. Measurement: Journal of the International Measurement Confederation, 2014, 58, 215-220.	2.5	23
13	Detection of <i>Salmonella bacterium</i> in drinking water using microring resonator. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 315-321.	1.9	23
14	LiFi cross-connection node model using whispering gallery mode of light in a microring resonator. Microsystem Technologies, 2018, 24, 4833-4838.	1.2	21
15	Injectable dicalcium phosphate bone cement prepared from biphasic calcium phosphate extracted from lamb bone. Materials Science and Engineering C, 2019, 103, 109863.	3.8	21
16	Gold nanoparticle trapping and delivery for therapeutic applications. International Journal of Nanomedicine, 2012, 7, 11.	3.3	18
17	Design of Mach-Zehnder interferometer and ring resonator for biochemical sensing. Photonic Sensors, 2015, 5, 12-18.	2.5	16
18	Rabi oscillation generation in the microring resonator system with double-series ring resonators. Optoelectronics Letters, 2015, 11, 342-347.	0.4	16

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19	Electron driven mobility model by light on the stacked metal-dielectric interfaces. Microwave and Optical Technology Letters, 2017, 59, 1704-1709.	0.9	16
20	SXR Measurements in INTI PF Operated in Neon to Identify Typical (Normal N) Profile for Shots With Good Yield. IEEE Transactions on Plasma Science, 2013, 41, 3166-3172.	0.6	15
21	Effectiveness of Taguchi method for the optimization of narrowband optical filters based on grating waveguides. Microsystem Technologies, 2019, 25, 789-795.	1.2	15
22	Some Generalised Characteristics of the Electro-dynamics of the Plasma Focus in Its Axial Phase: Illustrated by an Application to Independently Determine the Drive Current Fraction and the Mass Swept-Up Fraction. Journal of Fusion Energy, 2014, 33, 235-241.	0.5	14
23	Conditions for Radiative Cooling and Collapse in the Plasma Focus Illustrated With Numerical Experiments on PF1000. IEEE Transactions on Plasma Science, 2016, 44, 165-173.	0.6	13
24	Nanosopic Volume Trapping and Transportation Using a PANDA Ring Resonator for Drug Delivery. IEEE Transactions on Nanobioscience, 2011, 10, 106-112.	2.2	11
25	Plasma Diagnostics and Determination of Lead in Soil and Phaleria Macrocarpa Leaves by Ungated Laser Induced Breakdown Spectroscopy. Analytical Letters, 2016, 49, 808-817.	1.0	11
26	High-Q and temperature stable photonic biosensor based on grating waveguides. Optical and Quantum Electronics, 2018, 50, 1.	1.5	11
27	Optical configuration of an N ² reversible decoder using a LiNbO ₃ -based Mach-Zehnder interferometer. Applied Optics, 2021, 60, 4544.	0.9	11
28	Novel Tunable Dynamic Tweezers Using Dark-Bright Soliton Collision Control in an Optical Add/Drop Filter. IEEE Transactions on Nanobioscience, 2010, 9, 258-262.	2.2	10
29	Embedded nanomicro syringe on chip for molecular therapy. International Journal of Nanomedicine, 2011, 6, 2925.	3.3	10
30	Modified Add-Drop Microring Resonator for Temperature Sensing. Journal of Computational and Theoretical Nanoscience, 2015, 12, 3188-3193.	0.4	10
31	Breakdown Voltage Effect on coupling Ratio Fusion Fiber Coupling. Physics Procedia, 2011, 19, 477-481.	1.2	9
32	Nanorobot Controlled by Optical Tweezer Spin for Microsurgical Use. IEEE Nanotechnology Magazine, 2013, 12, 29-34.	1.1	9
33	Influence of antimony dopant on CuIn(S,Se) ₂ solar thin absorber layer deposited via solution-processed route. Journal of Alloys and Compounds, 2019, 772, 710-718.	2.8	8
34	Particle Accelerator Using Optical Tweezer for Photodetector Performance Improvement. IEEE Nanotechnology Magazine, 2012, 11, 1087-1092.	1.1	7
35	Estimation of coupling parameters for auto-motorized fabrication of fused fiber coupler. Microwave and Optical Technology Letters, 2012, 54, 1932-1935.	0.9	7
36	An optimum design of fused silica directional fiber coupler. Optik, 2015, 126, 640-644.	1.4	6

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37	Libs-PCA based discrimination of Malaysian coins. Journal of Physics: Conference Series, 2018, 1027, 012012.	0.3	6
38	Linear and triangle order of NX3 optical directional couplers: variation coupling coefficient. , 2010, , .		5
39	Effects of Approximation and Close-Fitting Technique of Corona Model on Neon Soft X-Ray Emission in 3-kJ Plasma Focus. IEEE Transactions on Plasma Science, 2015, 43, 2146-2154.	0.6	5
40	LIBS analysis of hydroxyapatite extracted from bovine bone for Ca/P ratio measurements. AIP Conference Proceedings, 2017, , .	0.3	5
41	Manual control of optical tweezer switching for particle trapping and injection. Micro and Nano Letters, 2018, 13, 911-914.	0.6	5
42	Bifurcation behaviors generated by Pandaâ€ring control circuit. Microwave and Optical Technology Letters, 2019, 61, 1783-1787.	0.9	5
43	Exploring a reversible NOR from a 4Â—4 modified Fredkin gate and its optical mapping using a LiNbO3-based MZI. Journal of Computational Electronics, 2022, 21, 304-318.	1.3	5
44	Molecular transporter generation for quantum-molecular transmission via an optical transmission line. Nano Communication Networks, 2010, 1, 96-101.	1.6	4
45	Nerve communication model by bio-cells and optical dipole coupling effects. Artificial Cells, Nanomedicine and Biotechnology, 2013, 41, 368-375.	1.9	4
46	Atom Bottom-Up Manipulation Controlled by Light for Microbattery Use. IEEE Nanotechnology Magazine, 2012, 11, 934-939.	1.1	3
47	EFFECT OF LASER AND MECHANICAL PARAMETERS ON STRENGTH OF FIBER BRAGG GRATINGS. International Journal of Modern Physics B, 2009, 23, 77-85.	1.0	2
48	Breakdown voltage investigation of fusion SiO2 optical coupler switch using Pockel effect model. Optik, 2010, 121, 2205-2208.	1.4	2
49	Estimation of Coupling Power Parameters of 1X3 Directional Fused Fiber Couplers. , 2011, , .		2
50	Modeling of coupling parameters of directional fiber coupler based on degree of fusion. , 2012, , .		2
51	Multiport Single Mode Fiber Coupler Technique for Mechanical Microactuator to Damped Blood Flow. , 2015, , .		2
52	Development of automated system for real-time LIBS analysis. AIP Conference Proceedings, 2017, , .	0.3	2
53	Free spectral range analysis of double series microresonator system for all-optical corrosion sensor. Optical Engineering, 2020, 59, 1.	0.5	2
54	Quantification of calcium using localized normalization on laser-induced breakdown spectroscopy data. AIP Conference Proceedings, 2017, , .	0.3	1

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55	2D model of plasma current sheath propagation in a Mather type plasma focus device. AIP Conference Proceedings, 2018, , .	0.3	1
56	Electro-Optic Tuneable of Direct Current Voltage in Ring Resonator. Advanced Materials Research, 2011, 403-408, 4174-4178.	0.3	0
57	Photodetector performance enhancement using an electron accelerator controlled by light. Applied Optics, 2012, 51, 5111.	0.9	0
58	OPTICAL BISTABILITY CONTROLLED USING ADD-DROP MOBIUS MICRORING RESONATOR SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
59	Implication of plasma dispersion effect for controlling refractive index in microresonator. AIP Conference Proceedings, 2017, , .	0.3	0
60	Compression mechanisms in the plasma focus pinch. AIP Conference Proceedings, 2017, , .	0.3	0
61	Circuit analysis on the inductance evolution based on electrical signal from various type plasma focus device. AIP Conference Proceedings, 2017, , .	0.3	0
62	Investigations of calcium spectral lines in laser-induced breakdown spectroscopy. AIP Conference Proceedings, 2017, , .	0.3	0
63	Potassium Doping Effect on $Cu_{2-x}Zn_xSn(S_{1-x}Se_x)_4$ Thin Film Absorber Layer Deposited via Spray Pyrolysis. Solid State Phenomena, 0, 307, 201-206.	0.3	0