

Muhammad M Ali

List of Publications by Year in descending order

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54
papers

1,572
citations

304743

22
h-index

315739

38
g-index

58
all docs

58
docs citations

58
times ranked

1224
citing authors

#	ARTICLE	IF	CITATIONS
1	Triangular metallic ring-shaped broadband polarization-insensitive and wide-angle metamaterial absorber for visible regime. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2022, 39, 136.	1.5	36
2	Polarization-controllable and angle-insensitive multiband Yagi-Uda-shaped metamaterial absorber in the microwave regime. <i>Optical Materials Express</i> , 2022, 12, 798.	3.0	25
3	Ultrawideband Cross-Polarization Converter Using Anisotropic Reflective Metasurface. <i>Electronics (Switzerland)</i> , 2022, 11, 487.	3.1	32
4	On the Application of Vickers Micro Hardness Testing to Isotactic Polypropylene. <i>Polymers</i> , 2022, 14, 1804.	4.5	8
5	Ultra-broadband nanostructured metamaterial absorber based on stacked square-layers of TiN/TiO ₂ . <i>Optical Materials Express</i> , 2022, 12, 2199.	3.0	42
6	Effect of laser processing parameters and carbon black on morphological and mechanical properties of welded polypropylene. <i>Optics and Laser Technology</i> , 2022, 153, 108216.	4.6	3
7	A comprehensive assessment of laser welding of biomedical devices and implant materials: recent research, development and applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021, 46, 109-151.	12.3	29
8	Wideband Microwave Absorber Comprising Metallic Split-Ring Resonators Surrounded With E-Shaped Fractal Metamaterial. <i>IEEE Access</i> , 2021, 9, 5670-5677.	4.2	57
9	Laser Transmission Welding of Semi-Crystalline Polymers and Their Composites: A Critical Review. <i>Polymers</i> , 2021, 13, 675.	4.5	24
10	Modified fiber optic sensor for highly precise identification of mercuric ion (Hg ²⁺) concentrations in aqueous solution. <i>Engineering Research Express</i> , 2021, 3, 025001.	1.6	0
11	Fabrication and Qualitative Analysis of an Optical Fibre EFPI-Based Temperature Sensor. <i>Sensors</i> , 2021, 21, 4445.	3.8	3
12	A novel omega shaped microwave absorber with wideband negative refractive index for C-band applications. <i>Optik</i> , 2021, 242, 167278.	2.9	10
13	Simulated Effect of Carbon Black on High Speed Laser Transmission Welding of Polypropylene With Low Line Energy. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	6
14	Polarization-insensitive dual-wideband fractal meta-absorber for terahertz applications. <i>Applied Optics</i> , 2021, 60, 9160.	1.8	36
15	Ultrawideband fractal metamaterial absorber made of nickel operating in the UV to IR spectrum. <i>Optics Express</i> , 2021, 29, 42911.	3.4	78
16	On the specially designed fractal metasurface-based dual-polarization converter in the THz regime. <i>Results in Physics</i> , 2020, 19, 103358.	4.1	49
17	Ultrathin broadband metasurface-based absorber comprised of tungsten nanowires. <i>Results in Physics</i> , 2020, 19, 103471.	4.1	55
18	Elliptical metallic rings-shaped fractal metamaterial absorber in the visible regime. <i>Scientific Reports</i> , 2020, 10, 14035.	3.3	96

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19	Symmetric accelerating beam generation via all-dielectric metasurfaces. RSC Advances, 2020, 10, 30282-30288.	3.6	8
20	Highly Efficient All-dielectric Metasurfaces for Airy Beam Generation in Visible Domain. , 2020, , .		6
21	Current research and development status of dissimilar materials laser welding of titanium and its alloys. Optics and Laser Technology, 2020, 126, 106090.	4.6	70
22	Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip. IEEE Photonics Journal, 2020, 12, 1-13.	2.0	26
23	Polarization-insensitive multi-band metamaterial absorber operating in the 5G spectrum. Optik, 2020, 216, 164958.	2.9	46
24	Phase engineering with all-dielectric metasurfaces for focused-optical-vortex (FOV) beams with high cross-polarization efficiency. Optical Materials Express, 2020, 10, 434.	3.0	36
25	Polarization insensitive all-dielectric metasurfaces for the ultraviolet domain. Optical Materials Express, 2020, 10, 1083.	3.0	21
26	Design of a wideband terahertz metamaterial absorber based on Pythagorean-tree fractal geometry. Optical Materials Express, 2020, 10, 3007.	3.0	63
27	Spherical Glass Based Fiber Optic Fabry-Perot Interferometric Probe for Refractive Index Sensing. , 2020, , .		0
28	Surface roughness and the sensitivity of D-shaped optical fibre sensors. Journal of Modern Optics, 2019, 66, 1244-1251.	1.3	12
29	Multiple compound Tamm waves with Ullerâ€™Zenneck wave characteristics guided by dissipative dielectric defect in periodic multilayered isotropic dielectric material. Journal of Optics (United Tj ETQq1 1 0.7843 142rgBT /Oerlock 10		
30	Effect of Embedding H-Shaped Slot on the Characteristics of Millimeter Wave Microstrip Patch Antenna for 5G Applications. , 2019, , .		6
31	Digital Matched Filtering (DMF) Technique for the Performance Enhancement of Few-Mode Fiber Bragg Grating Sensor. IEEE Sensors Journal, 2019, 19, 5653-5659.	4.7	1
32	Design of a Millimeter Wave Microstrip Patch Antenna and Its Array for 5G Applications. , 2019, , .		23
33	An Ultra-Thin Beam Splitter Design Using <i>a</i>-Si:H Based on Phase Gradient Metasurfaces. Journal of Nanoelectronics and Optoelectronics, 2019, 14, 1339-1343.	0.5	9
34	Measurement of Ultralow Level Bioethanol Concentration for Production Using Evanescent Wave Based Optical Fiber Sensor. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 780-788.	4.7	37
35	Modified Wang Shaped Ultra-Wideband (UWB) Fractal Patch Antenna for Millimetre-Wave Applications. , 2018, , .		4
36	Surface Electromagnetic Waves Propagation Guided by Dissipative Dielectric Material Sandwich Between Two Periodic Multilayered Isotropic Materials in Prism Coupled Configuration. , 2018, , .		0

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37	U-bend evanescent wave plastic optical fibre sensor for minute level concentration detection of ethanol corresponding to biofuel production rate. , 2017, , .		9
38	Modal sensitivity enhancement of few-mode fiber Bragg gratings for refractive index measurement. , 2016, , .		4
39	Wide-range in-fibre Fabry-Perot resonator for ultrasonic sensing. IET Optoelectronics, 2015, 9, 136-140.	3.3	3
40	Tilted Fiber Bragg Grating Sensors for Reinforcement Corrosion Measurement in Marine Concrete Structure. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3510-3516.	4.7	24
41	Characterization of Mode Coupling in Few-Mode FBG With Selective Mode Excitation. IEEE Photonics Technology Letters, 2015, 27, 1713-1716.	2.5	49
42	Cladless few mode fiber grating sensor for simultaneous refractive index and temperature measurement. Sensors and Actuators A: Physical, 2015, 228, 62-68.	4.1	71
43	PCF-Cavity FBG Fabry-Perot Resonator for Simultaneous Measurement of Pressure and Temperature. IEEE Sensors Journal, 2015, 15, 6921-6925.	4.7	26
44	Measurement of grating visibility of a fiber Bragg grating based on bent-spectral analysis. Applied Optics, 2015, 54, 1146.	1.8	3
45	In-Fiber Gratings for Simultaneous Monitoring Temperature and Strain in Ultrahigh Temperature. IEEE Photonics Technology Letters, 2015, 27, 58-61.	2.5	43
46	Chronology of Fabry-Perot Interferometer Fiber-Optic Sensors and Their Applications: A Review. Sensors, 2014, 14, 7451-7488.	3.8	299
47	Observation of mode-coupling in few mode fiber Bragg gratings. , 2014, , .		2
48	Optical Gaussian Notch Filter Based on Periodic Microbent Fiber Bragg Grating. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	14
49	Optimized Tapered Optical Fiber for Ethanol (C ₂ H ₅ OH) Concentration Sensing. Journal of Lightwave Technology, 2014, 32, 1777-1783.	4.6	21
50	Direct period measurement for fiber Bragg grating using an optical imaging technique. Applied Optics, 2013, 52, 5393.	1.8	7
51	Spectral analysis of bent fiber Bragg gratings: theory and experiment. Optics Letters, 2013, 38, 4409.	3.3	19
52	Analytical solution for electromagnetic resonance in strong chiral filled spherical cavity. , 2012, , .		1
53	Electromagnetic fields in a circular waveguide with DB-boundary conditions internally coated with chiral-nihility medium. International Journal of Applied Electromagnetics and Mechanics, 2012, 40, 27-35.	0.6	5
54	The guided waves in planar waveguide partially filled with strong chiral material. International Journal of Applied Electromagnetics and Mechanics, 2012, 38, 139-149.	0.6	15