Mohammad Asif Zaman

List of Publications by Year
in descending order

40 papers	406 citations	759233 12 h-index	794594 19 g-index
43 all docs	43 docs citations	43 times ranked	406 citing authors

#	Article	IF	Citations
1	Nonuniformly Spaced Linear Antenna Array Design Using Firefly Algorithm. International Journal of Microwave Science and Technology, 2012, 2012, 1-8.	0.6	82
2	Boucâ€"Wen hysteresis model identification using Modified Firefly Algorithm. Journal of Magnetism and Magnetic Materials, 2015, 395, 229-233.	2.3	43
3	Optimization of multilayer antireflection coating for photovoltaic applications. Optics and Laser Technology, 2016, 79, 88-94.	4.6	32
4	Near-field optical trapping in a non-conservative force field. Scientific Reports, 2019, 9, 649.	3.3	31
5	Adjoint method for estimating Jiles-Atherton hysteresis model parameters. Journal of Applied Physics, 2016, 120, .	2.5	18
6	Solenoidal optical forces from a plasmonic Archimedean spiral. Physical Review A, 2019, 100, .	2.5	18
7	Extracting the potential-well of a near-field optical trap using the Helmholtz-Hodge decomposition. Applied Physics Letters, 2018, 112, .	3.3	16
8	Dielectrophoresis-assisted plasmonic trapping of dielectric nanoparticles. Physical Review A, 2017, 95, .	2.5	15
9	Capturing range of a near-field optical trap. Physical Review A, 2017, 96, .	2.5	14
10	On the substrate contribution to the back action trapping of plasmonic nanoparticles on resonant near-field traps in plasmonic films. Optics Express, 2017, 25, 26198.	3.4	13
11	Photonic radiative cooler optimization using Taguchi's method. International Journal of Thermal Sciences, 2019, 144, 21-26.	4.9	13
12	Optoelectronic tweezers with a non-uniform background field. Applied Physics Letters, 2020, 117, .	3.3	13
13	Microparticle transport along a planar electrode array using moving dielectrophoresis. Journal of Applied Physics, 2021, 130, 034902.	2.5	12
14	Modified BÃ©zier Curves with Shape-Preserving Characteristics Using Differential Evolution Optimization Algorithm. Advances in Numerical Analysis, 2013, 2013, 1-8.	0.2	11
15	Modeling Brownian Microparticle Trajectories in Lab-on-a-Chip Devices with Time Varying Dielectrophoretic or Optical Forces. Micromachines, 2021, 12, 1265.	2.9	9
16	Optimization and analysis of a Ka band Pickett Potter horn antenna with low cross polarization. , 2010, , .		7
17	Fokker-Planck analysis of optical near-field traps. Scientific Reports, 2019, 9, 9557.	3.3	7
18	In-plane near-field optical barrier on a chip. Optics Letters, 2019, 44, 2061.	3.3	6

#	Article	IF	Citations
19	Modeling the illumination function of a cassegrain reflector for a corrugated horn feed and calculation of the far field pattern. , 2009, , .		5
20	Modeling VHF air-to-ground multipath propagation channel and analyzing channel characteristics and BER performance. , 2010, , .		5
21	Design and optimisation of a novel dual-band circularly polarised microstrip antenna. IET Microwaves, Antennas and Propagation, 2011, 5, 1670.	1.4	5
22	Optimized Deep Reactive-Ion Etching of Nanostructured Black Silicon for High-Contrast Optical Alignment Marks. ACS Applied Nano Materials, 2021, 4, 7047-7061.	5.0	5
23	Application of Taguchiâ€™s method to optimize fiber Raman amplifier. Optical Engineering, 2016, 55, 046103.	1.0	4
24	Dynamically controlled dielectrophoresis using resonant tuning. Electrophoresis, 2021, 42, 1079-1092.	2.4	4
25	Analysis of a conical corrugated horn operating in the K-band with low cross-polarization and high aperture efficiency, and observing its radiation patterns. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	3
26	A semi-analytical model of a near-field optical trapping potential well. Journal of Applied Physics, 2017, 122, 163101.	2.5	3
27	A novel approach of modeling channel potential for Gate All Around nanowire transistor. , 2010, , .		2
28	Constrained optimization of a Yagi-Uda antenna using Differential Evolution algorithm. , 2012, , .		2
29	Radar Cross-Section Formulation of a Shell-Shaped Projectile Using Modified PO Analysis. Modelling and Simulation in Engineering, 2012, 2012, 1-9.	0.7	2
30	Radar cross section calculation of a shell-shaped projectile using B&#x00E9;zier curves and physical optics. , 2012, , .		2
31	A New Method of Designing Circularly Symmetric Shaped Dual Reflector Antennas Using Distorted Conics. International Journal of Microwave Science and Technology, 2014, 2014, 1-8.	0.6	2
32	Design of an X band aperture matched horn antenna by optimization of back-lobe and cross-polarization level. , 2010, , .		1
33	Design of a high numerical aperture achromatic objective lens for endomicroscopy. Optical Engineering, 2019, 58, 1.	1.0	1
34	Sensitivity analysis of a circularly polarized U-slot microstrip antenna. , 2010, , .		0
35	Far-field formulation of a Cassegrain reflector using a novel illumination function and aperture field integration. International Journal of Microwave and Wireless Technologies, 2012, 4, 629-634.	1.9	0
36	Erratum to â€œOptimization of Jilesâ€“Atherton Hysteresis Model Parameters Using Taguchiâ€™s Methodâ€. IEEE Transactions on Magnetics, 2016, 52, 1-1.	2.1	0

#	Article	IF	Citations
37	10.1063/5.0049126.4. , 2021, , .		0
38	Approximate Closed-Form Expression of the Electric Field of a Conical Horn Antenna. International Journal of Computer and Electrical Engineering, 2011, , 48-54.	0.2	0
39	10.1063/5.0020446.1. , 2020, , .		0
40	Plasmonic C-Shaped Structures and their Applications in Photonics and Biotechnology. , 2023, , 382-396.		0