# Mohammad Asif Zaman

List of Publications by Year
in descending order

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Version: 2024-02-01

| 40 | 406 | 758635 12 | 794141 19 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 43 | 43 | 43 | 406 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Plasmonic C-Shaped Structures and their Applications in Photonics and Biotechnology. , 2023, , 382-396. | | 0 |
| 2 | Dynamically controlled dielectrophoresis using resonant tuning. Electrophoresis, 2021, 42, 1079-1092. | 1.3 | 4 |
| 3 | Microparticle transport along a planar electrode array using moving dielectrophoresis. Journal of Applied Physics, 2021, 130, 034902. | 1.1 | 12 |
| 4 | 10.1063/5.0049126.4. , 2021, , . | | 0 |
| 5 | Optimized Deep Reactive-Ion Etching of Nanostructured Black Silicon for High-Contrast Optical Alignment Marks. ACS Applied Nano Materials, 2021, 4, 7047-7061. | 2.4 | 5 |
| 6 | Modeling Brownian Microparticle Trajectories in Lab-on-a-Chip Devices with Time Varying Dielectrophoretic or Optical Forces. Micromachines, 2021, 12, 1265. | 1.4 | 9 |
| 7 | Optoelectronic tweezers with a non-uniform background field. Applied Physics Letters, 2020, 117, . | 1.5 | 13 |
| 8 | 10.1063/5.0020446.1. , 2020, , . | | 0 |
| 9 | Solenoidal optical forces from a plasmonic Archimedean spiral. Physical Review A, 2019, 100, . | 1.0 | 18 |
| 10 | Fokker-Planck analysis of optical near-field traps. Scientific Reports, 2019, 9, 9557. | 1.6 | 7 |
| 11 | Near-field optical trapping in a non-conservative force field. Scientific Reports, 2019, 9, 649. | 1.6 | 31 |
| 12 | Photonic radiative cooler optimization using Taguchi's method. International Journal of Thermal Sciences, 2019, 144, 21-26. | 2.6 | 13 |
| 13 | Design of a high numerical aperture achromatic objective lens for endomicroscopy. Optical Engineering, 2019, 58, 1. | 0.5 | 1 |
| 14 | In-plane near-field optical barrier on a chip. Optics Letters, 2019, 44, 2061. | 1.7 | 6 |
| 15 | Extracting the potential-well of a near-field optical trap using the Helmholtz-Hodge decomposition. Applied Physics Letters, 2018, 112, . | 1.5 | 16 |
| 16 | Dielectrophoresis-assisted plasmonic trapping of dielectric nanoparticles. Physical Review A, 2017, 95, . | 1.0 | 15 |
| 17 | A semi-analytical model of a near-field optical trapping potential well. Journal of Applied Physics, 2017, 122, 163101. | 1.1 | 3 |
| 18 | Capturing range of a near-field optical trap. Physical Review A, 2017, 96, . | 1.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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. | 1.7 | 13 |
| 20 | Application of Taguchiâ€™s method to optimize fiber Raman amplifier. Optical Engineering, 2016, 55, 046103. | 0.5 | 4 |
| 21 | Adjoint method for estimating Jiles-Atherton hysteresis model parameters. Journal of Applied Physics, 2016, 120, . | 1.1 | 18 |
| 22 | Optimization of multilayer antireflection coating for photovoltaic applications. Optics and Laser Technology, 2016, 79, 88-94. | 2.2 | 32 |
| 23 | Erratum to â€œOptimization of Jilesâ€“Atherton Hysteresis Model Parameters Using Taguchiâ€™s Methodâ€: IEEE Transactions on Magnetics, 2016, 52, 1-1. | 1.2 | 0 |
| 24 | Boucâ€“Wen hysteresis model identification using Modified Firefly Algorithm. Journal of Magnetism and Magnetic Materials, 2015, 395, 229-233. | 1.0 | 43 |
| 25 | 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 |
| 26 | Modified BÃ©zier Curves with Shape-Preserving Characteristics Using Differential Evolution Optimization Algorithm. Advances in Numerical Analysis, 2013, 2013, 1-8. | 0.2 | 11 |
| 27 | 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. | 1.5 | 0 |
| 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. | 0.4 | 2 |
| 30 | Nonuniformly Spaced Linear Antenna Array Design Using Firefly Algorithm. International Journal of Microwave Science and Technology, 2012, 2012, 1-8. | 0.6 | 82 |
| 31 | Radar cross section calculation of a shell-shaped projectile using Bézier curves and physical optics. , 2012, , . | | 2 |
| 32 | Design and optimisation of a novel dual-band circularly polarised microstrip antenna. IET Microwaves, Antennas and Propagation, 2011, 5, 1670. | 0.7 | 5 |
| 33 | 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 |
| 34 | Sensitivity analysis of a circularly polarized U-slot microstrip antenna. , 2010, , . | | 0 |
| 35 | A novel approach of modeling channel potential for Gate All Around nanowire transistor. , 2010, , . | | 2 |
| 36 | Optimization and analysis of a Ka band Pickett Potter horn antenna with low cross polarization. , 2010, , . | | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Modeling VHF air-to-ground multipath propagation channel and analyzing channel characteristics and BER performance. , 2010, , . | | 5 |
| 38 | Design of an X band aperture matched horn antenna by optimization of back-lobe and cross-polarization level. , 2010, , . | | 1 |
| 39 | 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 |
| 40 | Modeling the illumination function of a cassegrain reflector for a corrugated horn feed and calculation of the far field pattern. , 2009, , . | | 5 |