Nadia H Rafat

List of Publications by Year
in descending order

30 papers	391 citations	840776 11 h-index	752698 20 g-index
30 all docs	30 docs citations	30 times ranked	422 citing authors

#	Article	IF	Citations
1	New designs of a complete set of Photonic Crystals logic gates. Optics Communications, 2018, 411, 175-181.	2.1	78
2	Theoretical Study of Metal-Insulator-Metal Tunneling Diode Figures of Merit. IEEE Journal of Quantum Electronics, 2013, 49, 72-79.	1.9	45
3	A review on the techniques for building all-optical photonic crystal logic gates. Optics and Laser Technology, 2018, 106, 385-397.	4.6	41
4	One-dimensional metallic-dielectric (Ag/SiO2) photonic crystals filter for thermophotovoltaic applications. Renewable Energy, 2012, 45, 245-250.	8.9	39
5	Modeling and simulation of nanorods photovoltaic solar cells: A review. Renewable and Sustainable Energy Reviews, 2017, 68, 212-220.	16.4	35
6	Complete band gaps of phononic crystal plates with square rods. Ultrasonics, 2012, 52, 536-542.	3.9	25
7	Dipole Nantennas Terminated by Traveling Wave Rectifiers for Ambient Thermal Energy Harvesting. IEEE Nanotechnology Magazine, 2014, 13, 767-778.	2.0	22
8	Optimal design of one-dimensional photonic crystal filters using minimax optimization approach. Applied Optics, 2015, 54, 1399.	1.8	21
9	Enhanced Model of Conductive Filament-Based Memristor via Including Trapezoidal Electron Tunneling Barrier Effect. IEEE Nanotechnology Magazine, 2016, 15, 484-491.	2.0	19
10	Modeling of a wide band pass optical filter based on 1D ternary dielectric–metallic–dielectric photonic crystals. Journal of Optics (United Kingdom), 2011, 13, 085101.	2.2	13
11	Analytical modeling of the radial pn junction nanowire solar cells. Journal of Applied Physics, 2014, 116, .	2.5	13
12	A comparison between different structures of perovskite nanorod solar cells. Optik, 2020, 202, 163645.	2.9	8
13	Modeling of Field Effect Transistor Channel as a Nonlinear Transmission Line for Terahertz Detection. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 606-616.	2.2	5
14	Multi-input intrinsic and extrinsic field effect transistor models beyond cutoff frequency. Solid-State Electronics, 2015, 103, 236-241.	1.4	4
15	Photon recycling in the graded bandgap solar cell. Progress in Photovoltaics: Research and Applications, 2006, 14, 313-320.	8.1	3
16	Nanocrescent antenna as a transceiver for optical communication systems. , 2014, , .		3
17	Numerical simulation and a parametric study of inorganic nanowire solar cells. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2176.	1.9	3
18	Novel Bandgap grading technique for enhancing the limiting efficiency of solar cells. Renewable Energy, 1997, 10, 129-134.	8.9	2

#	Article	IF	Citations
19	Drift transport model of field effect transistors in saturation beyond cutoff. Journal Physics D: Applied Physics, 2015, 48, 135102.	2.8	2
20	Simulation study for the use of transistor contacts for sub‐terahertz radiation detection. IET Microwaves, Antennas and Propagation, 2016, 10, 784-790.	1.4	2
21	Two-Dimensional Model for Perovskite Nanorod Solar Cells: A Dark Case Study. IEEE Journal of Photovoltaics, 2019, 9, 1668-1677.	2.5	2
22	Plasmonic sphere-cube nano dimer for silicon solar cells power absorbance enhancement. Optical and Quantum Electronics, 2021, 53, 1.	3.3	2
23	Characterization of MIM diodes based on Nb/ Nb<inf>2</inf>O<inf>5</inf>. , 2013, , .		1
24	Fundamentals of designing cylindrical high-order transformation optics invisibility cloaks using silver–silica metamaterials. Applied Physics A: Materials Science and Processing, 2014, 115, 531-539.	2.3	1
25	STATISTICAL DESIGN CENTERING OPTIMIZATION OF 1D PHOTONIC CRYSTAL FILTERS. Progress in Electromagnetics Research M, 2016, 49, 153-165.	0.9	1
26	Optimal Design of Photonic Crystal Nanostructures. Springer Proceedings in Mathematics and Statistics, 2016, , 233-260.	0.2	1
27	Characterization of a coaxial mid-gap SB CNTFET inverter. , 2007, , .		0
28	Low voltage vacuum nanotriodes for optical frequencies rectification. Journal of Applied Physics, 2017, 122, 124501.	2.5	0
29	Toward spectrometerless instant Raman identification with tailored metasurfaces-powered guided-mode resonances (GMR) filters. Nanophotonics, 2021, 10, 4567-4577.	6.0	0
30	Modeling of Perovskite solar cells containing hexagonal-shaped nanorods. Optical and Quantum Electronics, 2022, 54, 1.	3.3	0