

Nadia H Rafat

List of Publications by Year in descending order

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Version: 2024-02-01

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	Modeling of Perovskite solar cells containing hexagonal-shaped nanorods. Optical and Quantum Electronics, 2022, 54, 1.	3.3	0
2	Plasmonic sphere-cube nano dimer for silicon solar cells power absorbance enhancement. Optical and Quantum Electronics, 2021, 53, 1.	3.3	2
3	Toward spectrometerless instant Raman identification with tailored metasurfaces-powered guided-mode resonances (GMR) filters. Nanophotonics, 2021, 10, 4567-4577.	6.0	0
4	A comparison between different structures of perovskite nanorod solar cells. Optik, 2020, 202, 163645.	2.9	8
5	Two-Dimensional Model for Perovskite Nanorod Solar Cells: A Dark Case Study. IEEE Journal of Photovoltaics, 2019, 9, 1668-1677.	2.5	2
6	New designs of a complete set of Photonic Crystals logic gates. Optics Communications, 2018, 411, 175-181.	2.1	78
7	A review on the techniques for building all-optical photonic crystal logic gates. Optics and Laser Technology, 2018, 106, 385-397.	4.6	41
8	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
9	Low voltage vacuum nanotriodes for optical frequencies rectification. Journal of Applied Physics, 2017, 122, 124501.	2.5	0
10	Modeling and simulation of nanorods photovoltaic solar cells: A review. Renewable and Sustainable Energy Reviews, 2017, 68, 212-220.	16.4	35
11	STATISTICAL DESIGN CENTERING OPTIMIZATION OF 1D PHOTONIC CRYSTAL FILTERS. Progress in Electromagnetics Research M, 2016, 49, 153-165.	0.9	1
12	Enhanced Model of Conductive Filament-Based Memristor via Including Trapezoidal Electron Tunneling Barrier Effect. IEEE Nanotechnology Magazine, 2016, 15, 484-491.	2.0	19
13	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
14	Optimal Design of Photonic Crystal Nanostructures. Springer Proceedings in Mathematics and Statistics, 2016, , 233-260.	0.2	1
15	Optimal design of one-dimensional photonic crystal filters using minimax optimization approach. Applied Optics, 2015, 54, 1399.	1.8	21
16	Drift transport model of field effect transistors in saturation beyond cutoff. Journal Physics D: Applied Physics, 2015, 48, 135102.	2.8	2
17	Multi-input intrinsic and extrinsic field effect transistor models beyond cutoff frequency. Solid-State Electronics, 2015, 103, 236-241.	1.4	4
18	Nanocrescent antenna as a transceiver for optical communication systems. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
19	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
20	Dipole Nanotennas Terminated by Traveling Wave Rectifiers for Ambient Thermal Energy Harvesting. IEEE Nanotechnology Magazine, 2014, 13, 767-778.	2.0	22
21	Analytical modeling of the radial pn junction nanowire solar cells. Journal of Applied Physics, 2014, 116, .	2.5	13
22	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
23	Theoretical Study of Metal-Insulator-Metal Tunneling Diode Figures of Merit. IEEE Journal of Quantum Electronics, 2013, 49, 72-79.	1.9	45
24	Characterization of MIM diodes based on Nb/NbO ₂ . , 2013, , .		1
25	One-dimensional metallic-dielectric (Ag/SiO ₂) photonic crystals filter for thermophotovoltaic applications. Renewable Energy, 2012, 45, 245-250.	8.9	39
26	Complete band gaps of phononic crystal plates with square rods. Ultrasonics, 2012, 52, 536-542.	3.9	25
27	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
28	Characterization of a coaxial mid-gap SB CNTFET inverter. , 2007, , .		0
29	Photon recycling in the graded bandgap solar cell. Progress in Photovoltaics: Research and Applications, 2006, 14, 313-320.	8.1	3
30	Novel Bandgap grading technique for enhancing the limiting efficiency of solar cells. Renewable Energy, 1997, 10, 129-134.	8.9	2