

Rakibul Hasan Sagor

List of Publications by Year in descending order

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63
papers

548
citations

686830

13
h-index

752256

20
g-index

64
all docs

64
docs citations

64
times ranked

191
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly sensitive plasmonic refractive index sensor based on triangular resonator. Optics Communications, 2021, 483, 126634.	1.0	47
2	Metal-insulator-metal waveguide-based optical pressure sensor embedded with arrays of silver nanorods. Optics Express, 2021, 29, 32365.	1.7	43
3	Highly sensitive refractive index sensor optimized for blood group sensing utilizing the Fano resonance. Applied Nanoscience (Switzerland), 2021, 11, 521-534.	1.6	38
4	Cog-shaped refractive index sensor embedded with gold nanorods for temperature sensing of multiple analytes. Optics Express, 2021, 29, 37541.	1.7	34
5	Numerical investigation of an optimized plasmonic on-chip refractive index sensor for temperature and blood group detection. Results in Physics, 2020, 19, 103611.	2.0	29
6	A highly sensitive plasmonic refractive index sensor based on concentric triple ring resonator for cancer biomarker and chemical concentration detection. Optics Communications, 2022, 519, 128429.	1.0	29
7	An Optimized Dielectric-Metal-Dielectric Refractive Index Nanosensor. IEEE Sensors Journal, 2021, 21, 1461-1469.	2.4	28
8	Plasmonic Refractive Index Sensor Based on Ring-Type Pentagonal Resonator with High Sensitivity. Plasmonics, 2021, 16, 873-880.	1.8	26
9	Gas-sensing and label-free detection of biomaterials employing multiple rings structured plasmonic nanosensor. Sensing and Bio-Sensing Research, 2021, 33, 100440.	2.2	26
10	Alternative material titanium nitride based refractive index sensor embedded with defects: An emerging solution in sensing arena. Results in Physics, 2021, 29, 104795.	2.0	26
11	Electromagnetic Properties of a Trapezoidally Corrugated Slow Wave Structure for Backward Wave Oscillators. IEEE Transactions on Plasma Science, 2014, 42, 1495-1501.	0.6	16
12	Point of Care Detection of Blood Electrolytes and Glucose Utilizing Nano-Dot Enhanced Plasmonic Biosensor. IEEE Sensors Journal, 2021, 21, 17749-17757.	2.4	16
13	Integrated polarisation handling devices. IET Optoelectronics, 2020, 14, 109-119.	1.8	13
14	Design and study of nano- ϵ_p plasmonic couplers using aluminium arsenide and alumina. IET Optoelectronics, 2015, 9, 125-130.	1.8	12
15	Numerical study of the dispersion characteristics of a semi-circularly corrugated slow wave structure. European Physical Journal D, 2015, 69, 1.	0.6	12
16	A Concentric Double-Ring Resonator Based Plasmonic Refractive Index Sensor with Glucose Sensing Capability. , 2020, , .		12
17	Study of solar energy for PV implementation in Saudi Arabia. , 2010, , .		9
18	Analysis of cuprous oxide-based ultra-compact nanoplasmonic coupler. Applied Nanoscience (Switzerland), 2015, 5, 217-221.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Temporal growth rate study of a high power backward wave oscillator with semi-circularly corrugated slow wave structure. EPJ Applied Physics, 2015, 70, 20801.	0.3	7
20	Design and Analysis of a Novel Air Gap-Based Semi-elliptical Nanoplasmonic Coupler. Plasmonics, 2019, 14, 1993-2001.	1.8	7
21	Characteristics of Symmetric Surface Plasmon Polariton Mode in Glass-Metal-Glass Waveguide. Plasmonics, 2013, 8, 1621-1625.	1.8	6
22	An optimization method for parameter extraction of metals using modified Debye model. SpringerPlus, 2013, 2, 426.	1.2	6
23	Design and analysis of a gallium lanthanum sulfide based nanoplasmonic coupler yielding 67% efficiency. Optik, 2014, 125, 5374-5377.	1.4	6
24	Numerical Study of the Dispersion Properties of an X-band Backward Wave Oscillator with Rectangularly Rippled Wall Resonator. Procedia, Social and Behavioral Sciences, 2015, 195, 2548-2555.	0.5	6
25	Design and Performance Analysis of an Ultra-compact Nano-plasmonic Refractive Index Sensor. , 2020, , .		6
26	Optimization of the optical properties of cuprous oxide and silicon-germanium alloy using the Lorentz and Debye models. Electronic Materials Letters, 2014, 10, 267-269.	1.0	5
27	A comparative study of dielectric materials as nano-plasmonic couplers. , 2014, , .		5
28	Linear analysis of a backward wave oscillator with triangular corrugated slow wave structure. European Physical Journal Plus, 2016, 131, 1.	1.2	5
29	Metal nanoparticle enhanced light absorption in GaAs thin-film solar cell. , 2016, , .		5
30	Performance Analysis of a Differential Evolution Algorithm in Modeling Parameter Extraction of Optical Material. Silicon, 2017, 9, 723-731.	1.8	5
31	Numerical Investigation of SPP Propagation at the Nano-scale MDM Waveguides with a Combiner. Photonics Letters of Poland, 2013, 5, .	0.2	5
32	Extraction of optimized parameters for Si _{0.6} Ge _{0.4} material and SPP mode propagation through Si _{0.6} Ge _{0.4} /Ag/Si _{0.6} Ge _{0.4} waveguide. Optoelectronics Letters, 2013, 9, 454-457.	0.4	4
33	Extraction of Modeling Parameters for Low-loss Alternative Plasmonic Material. Procedia, Social and Behavioral Sciences, 2015, 195, 2061-2066.	0.5	4
34	Extraction of lorentz model parameters for dielectrics and their application in nanoplasmonics. , 2014, , .		3
35	Effect of beam parameters on the space charge wave modes in slow wave structures with semi-circular and trapezoidal corrugation. EPJ Applied Physics, 2015, 71, 30801.	0.3	3
36	Modeling of Dispersive Materials Using Dispersion Models for FDTD Application. Silicon, 2016, 8, 251-275.	1.8	3

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37	A Genetic Algorithm Based Approach for the Extraction of Optical Parameters. Silicon, 2016, 8, 245-250.	1.8	3
38	Design and Analysis of a Semi-Elliptical Ultra-Compact Nano-plasmonic Coupler. , 2019, , .		3
39	Guiding surface plasmon polariton along 90 degree bend MDM waveguide models. , 2013, , .		2
40	Design of a Simple Integrated Coupler for SPP Excitation in a Dielectric Coated Ag Thin Film. Chinese Physics Letters, 2014, 31, 064201.	1.3	2
41	Study of PV Implementation for Electricity Generation in Bangladesh. , 2015, , .		2
42	A Comparative Study of Dispersion Characteristics Determination of a Trapezoidally Corrugated Slow Wave Structure Using Different Techniques. Chinese Physics Letters, 2016, 33, 018401.	1.3	2
43	Linear analysis of an X-band backward wave oscillator with a circular-edge disk-loaded cylindrical waveguide driven by an annular electron beam. European Physical Journal Plus, 2017, 132, 1.	1.2	2
44	Numerical verification of the dispersion relation of trapezoidally corrugated slow wave structure for backward wave oscillators. IET Microwaves, Antennas and Propagation, 2018, 12, 313-319.	0.7	2
45	Numerical Investigation of a Plasmonic Refractive Index Sensor Based on Rectangular MIM Topology. , 2020, , .		2
46	Designing GaAs Based Semi-Elliptical Nano Plasmonic Coupler with Analytical Assessment. , 2020, , .		2
47	Theoretical Investigation of a GaAs Based Novel Air Slot Nano-Plasmonic Coupler. , 2020, , .		2
48	Numerical Investigation of Nanodots Implanted High-Performance Plasmonic Refractive Index Sensor. Plasmonics, 0, , .	1.8	2
49	Optimization of debye parameters for dielectric materials and investigation of symmetric SPP mode propagation properties in DMD waveguide. , 2013, , .		1
50	Performance analysis of gallium lanthanum sulfide and cuprous oxide as nanoplasmonic couplers. , 2013, , .		1
51	Investigation of surface plasmonic Bragg-grating based IMI waveguide. , 2013, , .		1
52	Design of a tunable ring resonator with enhanced quality factor. , 2016, , .		1
53	Numerical study of propagation properties of surface plasmon polaritons in nonlinear media. European Physical Journal D, 2016, 70, 1.	0.6	1
54	Highly Sensitive Plasmonic Refractive Index Sensor Using Doped Silicon: an Alternative to MIM Structures. Plasmonics, 2022, 17, 203-211.	1.8	1

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55	Propagation of surface plasmon polariton in the single interface of gallium lanthanum sulfide and silver. <i>Photonic Sensors</i> , 2014, 4, 58-62.	2.5	0
56	Optimization of Lorentz model parameters for crystalline AS_2 , S_3 , SiC and modified Lorentz model parameters for nanocrystalline SiO ₂ . , 2015, , .		0
57	Designing of a Plasmonic High Pass Wavelength Filter With Apodized Grating Waveguide. , 2017, , .		0
58	Design of Surface Plasmon Ring Resonator Based Label-free Biosensors. , 2018, , .		0
59	Variation of Transmission Characteristics with Ring Geometry in Plasmonic Add-Drop Ring Resonators. , 2018, , .		0
60	Dispersion Properties of a Backward Wave Oscillator with Modified Rectangular Corrugations. , 2019, , .		0
61	Dispersion characteristics and electromagnetic properties of semicircularly corrugated slow-wave structure for backward-wave oscillators. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019, 32, e2528.	1.2	0
62	Air Gap Based Novel Rectangular Nano Plasmonic Coupler Design and Analysis. , 2020, , .		0
63	Dispersion Properties of a Backward Wave Oscillator with Modified Rectangular Corrugations. , 2020, , .		0