Mohammad Reza Rakhshani

List of Publications by Year
in descending order

23	1,180	361045 20	676716 22
papers	citations	h-index	g-index

23	23	23	370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High sensitivity plasmonic refractive index sensing and its application for human blood group identification. Sensors and Actuators B: Chemical, 2017, 249, 168-176.	4.0	144
2	High-Sensitivity Plasmonic Sensor Based on Metalâ€“Insulatorâ€“Metal Waveguide and Hexagonal-Ring Cavity. IEEE Sensors Journal, 2016, 16, 3041-3046.	2.4	105
3	Design and simulation of wavelength demultiplexer based on heterostructure photonic crystals ring resonators. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 50, 97-101.	1.3	100
4	Design of a plasmonic sensor based on a square array of nanorods and two slot cavities with a high figure of merit for glucose concentration monitoring. Applied Optics, 2018, 57, 7798.	0.9	85
5	A high-sensitivity sensor based on three-dimensional metalâ€“insulatorâ€“metal racetrack resonator and application for hemoglobin detection. Photonics and Nanostructures - Fundamentals and Applications, 2018, 32, 28-34.	1.0	72
6	Utilizing the Metallic Nano-Rods in Hexagonal Configuration to Enhance Sensitivity of the Plasmonic Racetrack Resonator in Sensing Application. Plasmonics, 2017, 12, 999-1006.	1.8	70
7	Engineering Hexagonal Array of Nanoholes for High Sensitivity Biosensor and Application for Human Blood Group Detection. IEEE Nanotechnology Magazine, 2018, 17, 475-481.	1.1	68
8	Dual wavelength demultiplexer based on metalâ€“insulatorâ€“metal plasmonic circular ring resonators. Journal of Modern Optics, 2016, 63, 1078-1086.	0.6	61
9	A new design of tunable four-port wavelength demultiplexer by photonic crystal ring resonators. Optik, 2013, 124, 5923-5926.	1.4	56
10	Optical refractive index sensor with two plasmonic double-square resonators for simultaneous sensing of human blood groups. Photonics and Nanostructures - Fundamentals and Applications, 2020, 39, 100768.	1.0	56
11	Realization of tunable optical filter by photonic crystal ring resonators. Optik, 2013, 124, 5377-5380.	1.4	49
12	Refractive index sensor based on concentric triple racetrack resonators side-coupled to metalâ€“insulatorâ€“metal waveguide for glucose sensing. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2834.	0.9	44
13	Wide-angle perfect absorber using a 3D nanorod metasurface as a plasmonic sensor for detecting cancerous cells and its tuning with a graphene layer. Photonics and Nanostructures - Fundamentals and Applications, 2021, 43, 100883.	1.0	39
14	Tunable and Sensitive Refractive Index Sensors by Plasmonic Absorbers with Circular Arrays of Nanorods and Nanotubes for Detecting Cancerous Cells. Plasmonics, 2020, 15, 2071-2080.	1.8	38
15	Heterostructure four channel wavelength demultiplexer using square photonic crystals ring resonators. Journal of Electromagnetic Waves and Applications, 2012, 26, 1700-1707.	1.0	37
16	Fano resonances based on plasmonic square resonator with high figure of merits and its application in glucose concentrations sensing. Optical and Quantum Electronics, 2019, 51, 1.	1.5	35
17	Refractive index sensor based on dual side-coupled rectangular resonators and nanorods array for medical applications. Optical and Quantum Electronics, 2021, 53, 1.	1.5	30
18	Three-Dimensional Polarization-Insensitive Perfect Absorber Using Nanorods Array for Sensing and Imaging. IEEE Sensors Journal, 2020, 20, 14166-14172.	2.4	26

#	Article	IF	Citations
19	Metamaterial perfect absorber using elliptical nanoparticles in a multilayer metasurface structure with polarization independence. Optics Express, 2022, 30, 10387.	1.7	25
20	Narrowband Plasmonic Absorber Using Gold Nanoparticle Arrays for Refractive Index Sensing. IEEE Sensors Journal, 2022, 22, 4043-4050.	2.4	22
21	Compact eight-channel wavelength demultiplexer using modified photonic crystal ring resonators for CWDM applications. Photonic Network Communications, 2020, 39, 143-151.	1.4	10
22	Numerical Simulations of Metamaterial Absorbers Employing Vanadium Dioxide. Plasmonics, 2022, 17, 1107-1117.	1.8	8
23	Study of Plasmonic Perfect Absorber Using Three Dimensional Silver Double Triangle-Shaped Nanoparticles. , 2021, , .		0