

Mohammad Reza Rakhshani

List of Publications by Citations

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papers

774
citations

16
h-index

23
g-index

23
ext. papers

989
ext. citations

2.7
avg, IF

5.95
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 22 | High sensitivity plasmonic refractive index sensing and its application for human blood group identification. <i>Sensors and Actuators B: Chemical</i> , 2017 , 249, 168-176 | 8.5 | 86 |
| 21 | Design and simulation of wavelength demultiplexer based on heterostructure photonic crystals ring resonators. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 50, 97-101 | 3 | 80 |
| 20 | High-Sensitivity Plasmonic Sensor Based on Metal-Insulator-Metal Waveguide and Hexagonal-Ring Cavity. <i>IEEE Sensors Journal</i> , 2016 , 16, 3041-3046 | 4 | 75 |
| 19 | 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. <i>Applied Optics</i> , 2018 , 57, 7798-7804 | 1.7 | 62 |
| 18 | Dual wavelength demultiplexer based on metal-insulator-metal plasmonic circular ring resonators. <i>Journal of Modern Optics</i> , 2016 , 63, 1078-1086 | 1.1 | 49 |
| 17 | A high-sensitivity sensor based on three-dimensional metal-insulator-metal racetrack resonator and application for hemoglobin detection. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2018 , 32, 28-34 | 2.6 | 47 |
| 16 | A new design of tunable four-port wavelength demultiplexer by photonic crystal ring resonators. <i>Optik</i> , 2013 , 124, 5923-5926 | 2.5 | 47 |
| 15 | . <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 475-481 | 2.6 | 45 |
| 14 | Utilizing the Metallic Nano-Rods in Hexagonal Configuration to Enhance Sensitivity of the Plasmonic Racetrack Resonator in Sensing Application. <i>Plasmonics</i> , 2017 , 12, 999-1006 | 2.4 | 45 |
| 13 | Realization of tunable optical filter by photonic crystal ring resonators. <i>Optik</i> , 2013 , 124, 5377-5380 | 2.5 | 38 |
| 12 | Optical refractive index sensor with two plasmonic double-square resonators for simultaneous sensing of human blood groups. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2020 , 39, 100768 | 2.6 | 34 |
| 11 | Heterostructure four channel wavelength demultiplexer using square photonic crystals ring resonators. <i>Journal of Electromagnetic Waves and Applications</i> , 2012 , 26, 1700-1707 | 1.3 | 33 |
| 10 | Refractive index sensor based on concentric triple racetrack resonators side-coupled to metal-insulator-metal waveguide for glucose sensing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 2834 | 1.7 | 28 |
| 9 | Tunable and Sensitive Refractive Index Sensors by Plasmonic Absorbers with Circular Arrays of Nanorods and Nanotubes for Detecting Cancerous Cells. <i>Plasmonics</i> , 2020 , 15, 2071-2080 | 2.4 | 23 |
| 8 | Wide-angle perfect absorber using a 3D nanorod metasurface as a plasmonic sensor for detecting cancerous cells and its tuning with a graphene layer. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021 , 43, 100883 | 2.6 | 23 |
| 7 | Fano resonances based on plasmonic square resonator with high figure of merits and its application in glucose concentrations sensing. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1 | 2.4 | 21 |
| 6 | Refractive index sensor based on dual side-coupled rectangular resonators and nanorods array for medical applications. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1 | 2.4 | 14 |

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| 5 | Three-Dimensional Polarization-Insensitive Perfect Absorber Using Nanorods Array for Sensing and Imaging. <i>IEEE Sensors Journal</i> , 2020 , 20, 14166-14172 | 4 | 13 |
| 4 | Compact eight-channel wavelength demultiplexer using modified photonic crystal ring resonators for CWDM applications. <i>Photonic Network Communications</i> , 2020 , 39, 143-151 | 1.7 | 6 |
| 3 | Narrowband plasmonic absorber using gold nanoparticle arrays for refractive index sensing. <i>IEEE Sensors Journal</i> , 2022 , 1-1 | 4 | 2 |
| 2 | Metamaterial perfect absorber using elliptical nanoparticles in a multilayer metasurface structure with polarization independence.. <i>Optics Express</i> , 2022 , 30, 10387-10399 | 3.3 | 2 |
| 1 | Numerical Simulations of Metamaterial Absorbers Employing Vanadium Dioxide. <i>Plasmonics</i> ,1 | 2.4 | 1 |