Mehdi Zavvari

List of Publications by Year
in descending order

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50 papers	631 citations	759233 12 h-index	610901 24 g-index
50 all docs	50 docs citations	50 times ranked	430 citing authors

#	Article	IF	Citations
1	Eliminating excess phase accumulation in a continuous perturbed heterogeneous planar photonic crystal. Photonics and Nanostructures - Fundamentals and Applications, 2022, 48, 100985.	2.0	0
2	Two-color photodetection of graphene-based transistors enhanced by metallic photonic crystals. Journal of Computational Electronics, 2022, 21, 953-959.	2.5	2
3	A novel MIMO antenna with an improved isolation for UWB and multiband applications. Analog Integrated Circuits and Signal Processing, 2021, 107, 171-179.	1.4	8
4	All optical FSK demodulator using PhC-based ring resonators. Optical and Quantum Electronics, 2021, 53, 1.	3.3	0
5	A novel proposal for all optical FSK demodulator using photonic crystal based resonant cavities. Optik, 2020, 203, 163953.	2.9	7
6	Graphene Plasmonic Crystal: Two-Dimensional Gate-Controlled Chemical Potential for Creation of Photonic Bandgap. Plasmonics, 2020, 15, 975-983.	3.4	6
7	Probabilistic dispatch in hybrid-microgrid system with considering energy arbitrage. Journal of Renewable and Sustainable Energy, 2019, 11, 025904.	2.0	3
8	Design of Photonic Crystal-Based Demultiplexer with High-Quality Factor for DWDM Applications. Journal of Optical Communications, 2019, 40, 135-138.	4.7	6
9	Design of graphene-based hybrid waveguides for nonlinear applications. Optical and Quantum Electronics, 2019, 51, 1.	3.3	106
10	Localised surface plasmons of a corrugated metalâ€“insulatorâ€“metal ring resonator for enhanced multiband antenna. Electronics Letters, 2018, 54, 120-122.	1.0	4
11	Design and analysis of integrated all-optical $$2imes 4$$ 2 Ã— 4 decoder based on 2D photonic crystals. Photonic Network Communications, 2018, 35, 122-128.	2.7	52
12	Periodically voltage-modulated graphene plasmonic waveguide for band-rejection applications. Journal of Nanophotonics, 2018, 12, 1.	1.0	5
13	Strong coupling of metamaterial resonances to intersubband transitions of quantum dots for enhanced second-harmonic generation. Applied Optics, 2018, 57, 10505.	1.8	1
14	Broad band circularly polarized square slot array antenna with improved sequentially rotated feed network for C-band application. International Journal of Microwave and Wireless Technologies, 2017, 9, 171-175.	1.9	4
15	Modeling the performance characteristics of ZnO-based heterojunction photodetectors. Journal of Computational Electronics, 2017, 16, 133-138.	2.5	2
16	High performance n-ZnO/p-metal-oxides UV detector grown in low-temperature aqueous solution bath. Thin Solid Films, 2017, 626, 173-177.	1.8	19
17	Design of a high-performance metalâ€“insulatorâ€“metal plasmonic demultiplexer. Journal of Nanophotonics, 2017, 11, 026002.	1.0	29
18	A High Efficiency Optical Power Splitter in a Y-Branch Photonic Crystal for DWDM Optical Communication Systems. Frequenz, 2017, 72, .	0.9	2

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19	Design and analysis of all-optical 4â€“2 binary encoder based on photonic crystal. Optical and Quantum Electronics, 2017, 49, 1.	3.3	53
20	Excitation of higher order modes in total transmission by zero index metamaterials with embedded defects. Optics Communications, 2017, 403, 170-174.	2.1	2
21	Design of Split Ring Resonators for Enhanced Two-Color Operation of Quantum Dot Infrared Photodetectors. IEEE Sensors Journal, 2017, 17, 4747-4751.	4.7	4
22	Tunable band-stop plasmonic filter based on square ring resonators in a metal-insulator-metal structure. Journal of Modern Optics, 2017, 64, 2221-2227.	1.3	27
23	Modeling and analysis of red emission in $$hbox {Pr}^{3+}$$ Pr 3 + -doped fiber lasers. Photonic Network Communications, 2017, 33, 348-355.	2.7	1
24	Analysis of single photon detection in avalanche photodetectors with multi-gain-stage multiplication region. Applied Optics, 2017, 56, 1631.	2.1	3
25	Design and Analysis of Ultra-Fast All-Optical Modulator Based on Photonic Crystal. Journal of Optical Communications, 2016, 37, .	4.7	2
26	Second-Harmonic Generation in III-Nitride Quantum Wells Enhanced by Metamaterials. IEEE Photonics Technology Letters, 2016, 28, 2199-2202.	2.5	6
27	Application of Hyperbolic Metamaterials for Responsivity Enhancement of Thin Film Photo-Conductive Detectors. IEEE Sensors Journal, 2016, 16, 8916-8920.	4.7	8
28	Modeling the performance characteristics of Pr3+: ZBLAN fiber laser at 638Ânm. Optical and Quantum Electronics, 2016, 48, 1.	3.3	1
29	All-optical AND/OR/NOT logic gates based on photonic crystal ring resonators. Frontiers of Optoelectronics, 2016, 9, 578-584.	3.7	46
30	Modeling of dark current and photo-response in quantum ring intersubband photodetectors. Optical and Quantum Electronics, 2015, 47, 2359-2369.	3.3	1
31	Tunable far infrared detection using quantum rings-in-well intersubband photodetectors. Optical and Quantum Electronics, 2015, 47, 3555-3565.	3.3	3
32	A novel optical filter based on H-shape photonic crystal ring resonators. Optik, 2015, 126, 2535-2538.	2.9	49
33	Proposal of a quantum ring intersubband photodetector integrated with avalanche multiplication region for high performance detection of far infrared. Optik, 2015, 126, 1861-1864.	2.9	8
34	Quantum-dot-based single-photon avalanche detector for mid-infrared applications. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 737.	2.1	3
35	High performance avalanche quantum dot photodetector for mid-infrared detection. Optical and Quantum Electronics, 2015, 47, 1207-1217.	3.3	7
36	Photonic Crystal Cavity with L3-Defect for Resonant Optical Filtering. Frequenz, 2014, 68, .	0.9	27

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37	Design of resonant cavity structure for efficient high-temperature operation of single-photon avalanche photodiodes. Applied Optics, 2014, 53, 3311.	1.8	3
38	Very compact photonic crystal resonant cavity for all optical filtering. Iranian Physical Journal, 2014, 8, 183-188.	1.2	31
39	Chirp Parameter in Strained Coupled Quantum Well Electroabsorption Modulators. Journal of Optical Communications, 2014, 35, .	4.7	0
40	InAs/GaAs far infrared quantum ring inter-subband photodetector. Frontiers of Optoelectronics, 2014, 7, 84-90.	3.7	5
41	Improving the performance of a far-infrared quantum-ring-based photodetector utilizing asymmetric multi-barrier resonant tunneling. Infrared Physics and Technology, 2014, 62, 81-85.	2.9	6
42	Self quenched quantum dot avalanche photodetector for mid-infrared single photon detection. Infrared Physics and Technology, 2014, 62, 7-12.	2.9	12
43	Avalanche quantum dot-in-well long wavelength infrared photodetectors: Linear and Geiger mode operation. Infrared Physics and Technology, 2014, 65, 72-76.	2.9	2
44	Numerical analysis of quantum ring intersubband photodetector for far infrared detection. Optical and Quantum Electronics, 2014, 46, 1107-1116.	3.3	3
45	Resonant cavity enhanced quantum ring photodetector at $$20,upmu $$ 20 Î¼ m wavelength. Optical and Quantum Electronics, 2013, 45, 1249-1258.	3.3	7
46	Quantum-Dot-Based Mid-IR Single-Photon Detector With Self-Quenching and Self-Recovering Operation. IEEE Electron Device Letters, 2013, 34, 783-785.	3.9	22
47	Quantum dot infrared photodetector with gated-mode design for mid-IR single photon detection. Applied Optics, 2013, 52, 7675.	1.8	9
48	THEORETICAL STUDY OF UNIPOLAR INTERSUBBAND IMPACT IONIZATION IN QUANTUM DOT BASED PHOTODETECTORS. Modern Physics Letters B, 2013, 27, 1350208.	1.9	1
49	Quantum dot infrared photodetector enhanced by avalanche multiplication. Electronics Letters, 2012, 48, 589.	1.0	16
50	DYNAMICS OF AVALANCHE QUANTUM DOT INFRARED PHOTODETECTORS. Modern Physics Letters B, 2012, 26, 1250216.	1.9	7