Hooshang Ghafouri-Shiraz

List of Publications by Year
in descending order

86 papers	1,359 citations	516215 16 h-index	360668 35 g-index
87 all docs	87 docs citations	87 times ranked	531 citing authors

#	Article	IF	Citations
1	Dualâ€layer partially reflective surface antennas based on extended size unit cells for 60 GHz band WLAN/WPAN. IET Microwaves, Antennas and Propagation, 2018, 12, 789-795.	0.7	4
2	Liquid Crystalline Polymer Substrate-Based THz Microstrip Antenna Arrays for Medical Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1533-1536.	2.4	78
3	High gain microstrip antenna array for 60 GHz band point to point WLAN/WPAN communications. Microwave and Optical Technology Letters, 2017, 59, 511-514.	0.9	16
4	Frequency selective surface antenna for remote vital sign monitoring with ultra-wide band doppler radar. Microwave and Optical Technology Letters, 2017, 59, 818-823.	0.9	7
5	Accurate remote vital sign monitoring with 10 GHz ultra-wide patch antenna array. AEU - International Journal of Electronics and Communications, 2017, 77, 36-42.	1.7	16
6	Effects of spontaneous emission excited state lifetime on the output performance of quantum well lasers. Optical and Quantum Electronics, 2017, 49, 1.	1.5	0
7	High performance terahertz slotted waveguide antenna based on electrically split ring resonator metasurface employing low epsilon medium for Eâ€plane beam focusing. Microwave and Optical Technology Letters, 2017, 59, 1507-1517.	0.9	0
8	Resonant cavityâ€based dielectric lens antenna for 60ÂGHzâ€band wireless applications. Electronics Letters, 2017, 53, 646-648.	0.5	4
9	Ultra-Wide Patch Antenna Array Design at 60ÂGHz Band for Remote Vital Sign Monitoring with Doppler Radar Principle. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 548-566.	1.2	26
10	<scp>D</scp>ual frequency selective surface high gain antenna with deep resonant cavity and Eâ€field reflectors. Microwave and Optical Technology Letters, 2017, 59, 2772-2777.	0.9	7
11	A dual band patch antenna designed with size improvement method for 60 <scp>GH</scp>zâ€band duplexer applications. Microwave and Optical Technology Letters, 2017, 59, 2867-2870.	0.9	3
12	Evaluation of gain enhancement in improved size microstrip antenna arrays for millimetre-wave applications. AEU - International Journal of Electronics and Communications, 2017, 81, 105-113.	1.7	12
13	High-speed pulse train amplification in semiconductor optical amplifiers with optimized bias current. Applied Optics, 2017, 56, 1079.	2.1	4
14	Fabrication tolerance and gain improvements of microstrip patch antenna at terahertz frequencies. Microwave and Optical Technology Letters, 2016, 58, 1819-1824.	0.9	7
15	High performance terahertz antennas based on split ring resonator and thin wire metamaterial structures. Microwave and Optical Technology Letters, 2016, 58, 382-389.	0.9	10
16	Improvement of microstrip patch antenna gain and bandwidth at 60 GHz and X bands for wireless applications. IET Microwaves, Antennas and Propagation, 2016, 10, 1167-1173.	0.7	41
17	Microstrip antennas for Xâ€band and MMâ€wave frequencies based on diamond shape defected ground structure and size extension method. Microwave and Optical Technology Letters, 2016, 58, 2836-2841.	0.9	3
18	High performance patch antenna using circular split ring resonators and thin wires employing electromagnetic coupling improvement. Photonics and Nanostructures - Fundamentals and Applications, 2016, 21, 19-31.	1.0	3

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19	Performance Analysis of Two New Code Families for Spectral-Amplitude-Coding Optical CDMA Systems. Journal of Lightwave Technology, 2016, 34, 4005-4014.	2.7	15
20	Quantum Transmission Line Modeling Method and Its Application to Quantum Dot Amplifiers. IEEE Journal of Quantum Electronics, 2016, 52, 1-7.	1.0	7
21	Experimental investigation on synchronized optical code division multiple access transmission. Optical and Quantum Electronics, 2016, 48, 1.	1.5	1
22	Transmission line model for strained quantum well lasers including carrier transport and carrier heating effects. Applied Optics, 2016, 55, 1518.	2.1	0
23	A novel transmission line model for quantum well semiconductor optical amplifiers. Optical and Quantum Electronics, 2016, 48, 1.	1.5	1
24	Size improvement of rectangular microstrip patch antenna at MMâ€wave and terahertz frequencies. Microwave and Optical Technology Letters, 2015, 57, 2585-2589.	0.9	33
25	High-performance quantum well amplifiers for the WDM system. , 2015, , .		1
26	Wavelength-dependent femtosecond pulse amplification in wideband tapered-waveguide quantum well semiconductor optical amplifiers. Applied Optics, 2015, 54, 10524.	2.1	9
27	A New Optical Gain Model for Quantum Wells Based on Quantum Well Transmission Line Modeling Method. IEEE Journal of Quantum Electronics, 2015, 51, 1-8.	1.0	3
28	Theoretical analysis of carrier heating effect in semiconductor optical amplifiers. Optical and Quantum Electronics, 2015, 47, 2141-2153.	1.5	3
29	Analysis of carrier heating effects in quantum well semiconductor optical amplifiers considering holesâ€™ non-parabolic density of states. Optical and Quantum Electronics, 2015, 47, 1847-1858.	1.5	6
30	Optimization of Pump Current for Pulse Distortionless Amplification in Quantum Well Amplifiers. Journal of Lightwave Technology, 2015, 33, 3907-3913.	2.7	4
31	A Novel Multi User Interference Cancellation Scheme for Synchronous OCDMA Networks. Journal of Lightwave Technology, 2013, 31, 1813-1820.	2.7	5
32	A Novel Transposed Uniform Crossâ€Correlation Modified Prime Code for Enhancement of Capacity and Spectral Efficiency of Networks. Microwave and Optical Technology Letters, 2013, 55, 2952-2955.	0.9	1
33	Energy-Efficient High-Capacity Optical CDMA Networks by Low-Weight Large Code-Set MPC. Journal of Lightwave Technology, 2012, 30, 2876-2883.	2.7	6
34	Analysis of a novel prime code in IP transmission and routing over FSKâ€OCDMA in an optical network unit. Microwave and Optical Technology Letters, 2012, 54, 2852-2856.	0.9	3
35	Uniform Cross-Correlation Modified Prime Code for Applications in Synchronous Optical CDMA Communication Systems. Journal of Lightwave Technology, 2012, 30, 2955-2963.	2.7	14
36	Noncontact heart rate monitoring using Doppler radar and continuous wavelet transform. Microwave and Optical Technology Letters, 2011, 53, 1793-1797.	0.9	8

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37	On-body antenna for vital signs and heart rate variability monitoring. , 2011, , .		2
38	IP Routing and Transmission Analysis in Optical CDMA Networks: Coherent Modulation With Incoherent Demodulation. Journal of Lightwave Technology, 2009, 27, 3845-3852.	2.7	9
39	IP Routing and Traffic Analysis in Coherent Optical CDMA Networks. Journal of Lightwave Technology, 2009, 27, 1262-1268.	2.7	10
40	Optical CDMA Transceiver Architecture: Polarization Modulation with Dual-Balanced Detection. Lecture Notes in Electrical Engineering, 2009, , 47-57.	0.3	0
41	Evaluation of coherent homodyne and heterodyne optical CDMA structures. Optical and Quantum Electronics, 2008, 40, 513-524.	1.5	4
42	Design and experimental investigation on novel microstrip band-pass filters. Microwave and Optical Technology Letters, 2008, 50, 655-658.	0.9	0
43	Frequency-shift keying optical code-division multiple-access system with novel interference cancellation. Microwave and Optical Technology Letters, 2008, 50, 883-885.	0.9	10
44	Novel Channel Interference Reduction in Optical Synchronous FSK-CDMA Network Using a Data-Free Reference. Journal of Lightwave Technology, 2008, 26, 977-985.	2.7	11
45	Study of Phase Modulations With Dual-Balanced Detection in Coherent Homodyne Optical CDMA Network. Journal of Lightwave Technology, 2008, 26, 2840-2847.	2.7	7
46	Capacity Enhancement in Synchronous Optical Overlapping PPM-CDMA Network by a Novel Spreading Code. , 2007, , .		11
47	Fresh Prime Codes Evaluation for Synchronous PPM and OPPM Signaling for Optical CDMA Networks. Journal of Lightwave Technology, 2007, 25, 1422-1430.	2.7	36
48	Performance Analysis of Heterodyne-Detected Coherent Optical CDMA Using a Novel Prime Code Family. Journal of Lightwave Technology, 2007, 25, 3028-3034.	2.7	24
49	Performance Analysis of Novel Prime Code Family in Coherent Optical CDMA Network. , 2007, , .		3
50	Analysis of a gained nonlinear directional coupler pulse switch. Optical and Quantum Electronics, 2007, 38, 1259-1268.	1.5	3
51	Novel family of prime codes for synchronous optical CDMA. Optical and Quantum Electronics, 2007, 39, 79-90.	1.5	33
52	Multiple access interference cancellation in Manchester-coded synchronous optical PPM-CDMA network. Optical and Quantum Electronics, 2007, 39, 723-734.	1.5	8
53	On the performance of different node configurations in multi-fiber optical packet-switched networks. Photonic Network Communications, 2007, 14, 11-22.	1.4	5
54	EBG-assisted slot antenna for Bluetooth applications. Microwave and Optical Technology Letters, 2006, 48, 482-487.	0.9	5

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55	A new contention-resolution scheme for time-critical applications in multifiber optical packet-switched networks. Microwave and Optical Technology Letters, 2006, 48, 717-719.	0.9	1
56	Wavelength conversion in tapered-waveguide laser diode amplifiers. Microwave and Optical Technology Letters, 2005, 45, 134-142.	0.9	5
57	Methods for measuring the RF half-wave voltage of LiNbO3 optical modulators. Microwave and Optical Technology Letters, 2005, 46, 440-443.	0.9	9
58	Application of the transmission line laser model in analysis of multiple-phase-shift DFB lasers. Microwave and Optical Technology Letters, 2004, 40, 51-57.	0.9	4
59	On the benefits of multifiber optical packet switch. Microwave and Optical Technology Letters, 2004, 43, 376-378.	0.9	20
60	Contention resolution by shared wavelength converters and fiber delay lines in an optical packet switch. Microwave and Optical Technology Letters, 2003, 38, 395-398.	0.9	0
61	Group-velocity matched-fiber Raman wavelength converter for the flexible optical communications network. Microwave and Optical Technology Letters, 2003, 38, 504-506.	0.9	0
62	Codes for spectral-amplitude-coding optical CDMA systems. Journal of Lightwave Technology, 2002, 20, 1284-1291.	2.7	132
63	Unipolar codes with ideal in-phase cross-correlation for spectral amplitude-coding optical CDMA systems. IEEE Transactions on Communications, 2002, 50, 1209-1212.	4.9	67
64	IP transmission over optical spectral amplitude-coding CDMA links. Microwave and Optical Technology Letters, 2002, 33, 140-142.	0.9	5
65	Optical Fibre-Fed Radio System for Broadband Services (Invited Paper). , 2002, , .		0
66	Performance analysis of optical spectral-amplitude-coding CDMA systems using a super-fluorescent fiber source. IEEE Photonics Technology Letters, 2001, 13, 887-889.	1.3	12
67	New code families for fiber-Bragg-grating-based spectral-amplitude-coding optical CDMA systems. IEEE Photonics Technology Letters, 2001, 13, 890-892.	1.3	75
68	Modified quadratic congruence codes for fiber Bragg-grating-based spectral-amplitude-coding optical CDMA systems. Journal of Lightwave Technology, 2001, 19, 1274-1281.	2.7	359
69	Effective wavelength assignment algorithms for optimizing design costs in SONET/WDM rings. Journal of Lightwave Technology, 2001, 19, 1427-1439.	2.7	20
70	Interference reduction in synchronous fiber-optic PPM-CDMA systems. Microwave and Optical Technology Letters, 2001, 30, 202-205.	0.9	12
71	Effective circle-construction algorithms for minimizing the wavelength requirement in WDM rings. Microwave and Optical Technology Letters, 2001, 30, 221-225.	0.9	1
72	Analysis of cross-gain modulation wavelength conversion in tapered-waveguide laser-diode amplifiers. Microwave and Optical Technology Letters, 2001, 28, 147-150.	0.9	0

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73	Matching network for microwave applications of semiconductor laser diodes (LDs): Consideration of the effects of electrical parasitics and LD carrier-dependent impedance. Microwave and Optical Technology Letters, 2000, 25, 197-200.	0.9	1
74	Analysis of facet reflectivity of InGaAsP separate confinement heterostructure (SCH) laser diodes. Microwave and Optical Technology Letters, 2000, 26, 196-202.	0.9	0
75	Analysis of a multisection and phase-shift-controlled DFB wavelength-tunable optical filter. Microwave and Optical Technology Letters, 2000, 27, 171-175.	0.9	0
76	Dynamic model of tapered semiconductor lasers and amplifiers based on transmission-line laser modeling. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 585-593.	1.9	16
77	Propagation behavior of a chirped nonlinear laser pulse. Microwave and Optical Technology Letters, 1998, 17, 291-294.	0.9	0
78	New configurations for integrated optical-fiber-fed radio systems. Microwave and Optical Technology Letters, 1998, 17, 339-345.	0.9	1
79	Soliton propagation in nonlinear gain systems. Microwave and Optical Technology Letters, 1998, 17, 383-386.	0.9	1
80	Picosecond pulse amplification in tapered-waveguide laser-diode amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 210-217.	1.9	19
81	Wavelength-tunable optical filters with phase-shifted DFB structures. Microwave and Optical Technology Letters, 1997, 16, 119-122.	0.9	0
82	Narrow pulse formation using nonlinear LC ladder networks. Fiber and Integrated Optics, 1996, 15, 305-323.	1.7	2
83	Study of a novel laser diode amplifier structure. Semiconductor Science and Technology, 1996, 11, 1443-1449.	1.0	10
84	A novel method for analysis of soliton propagation in optical fibers. IEEE Journal of Quantum Electronics, 1995, 31, 190-200.	1.0	41
85	Analysis of waveguiding properties of traveling-wave semiconductor laser amplifiers using perturbation technique. Fiber and Integrated Optics, 1992, 11, 51-70.	1.7	4
86	Optical fibre-fed radio system for broadband services. , 0, , .		0