

Javier Marti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11649263/publications.pdf>

Version: 2024-02-01

61
papers

1,701
citations

304743

22
h-index

289244

40
g-index

61
all docs

61
docs citations

61
times ranked

1667
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast All-Optical Switching in a Silicon-Nanocrystal-Based Silicon Slot Waveguide at Telecom Wavelengths. <i>Nano Letters</i> , 2010, 10, 1506-1511.	9.1	218
2	High-Capacity Wireless Signal Generation and Demodulation in 75- to 110-GHz Band Employing All-Optical OFDM. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 810-812.	2.5	152
3	Design of Silicon-Based Slot Waveguide Configurations for Optimum Nonlinear Performance. <i>Journal of Lightwave Technology</i> , 2007, 25, 1298-1305.	4.6	115
4	Single Bandpass Photonic Microwave Filter Based on a Notch Ring Resonator. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1276-1278.	2.5	112
5	60 GHz radio-over-fiber technologies for broadband wireless services [Invited]. <i>Journal of Optical Networking</i> , 2009, 8, 471.	2.5	97
6	High-Capacity 60 GHz and 75-110 GHz Band Links Employing All-Optical OFDM Generation and Digital Coherent Detection. <i>Journal of Lightwave Technology</i> , 2012, 30, 147-155.	4.6	76
7	On-chip wireless silicon photonics: from reconfigurable interconnects to lab-on-chip devices. <i>Light: Science and Applications</i> , 2017, 6, e17053-e17053.	16.6	71
8	Optical Beamforming Network Based on Fiber-Optical Delay Lines and Spatial Light Modulators for Large Antenna Arrays. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2590-2592.	2.5	57
9	Dual-Wavelength DFB Erbium-Doped Fiber Laser With Tunable Wavelength Spacing. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 254-256.	2.5	55
10	Mach-Zehnder interferometer employing coupled-resonator optical waveguides. <i>Optics Letters</i> , 2003, 28, 405.	3.3	50
11	Tailoring the dispersion behavior of silicon nanophotonic slot waveguides. <i>Optics Express</i> , 2010, 18, 20839.	3.4	42
12	Spectral self-imaging effect by time-domain multilevel phase modulation of a periodic pulse train. <i>Optics Letters</i> , 2011, 36, 858.	3.3	38
13	Universal method for the synthesis of arbitrary polarization states radiated by a nanoantenna. <i>Laser and Photonics Reviews</i> , 2014, 8, L27.	8.7	37
14	Study of asymmetric silicon cross-slot waveguides for polarization diversity schemes. <i>Applied Optics</i> , 2009, 48, 2693.	2.1	36
15	Mach-Zehnder interferometers in photonic crystals. <i>Optical and Quantum Electronics</i> , 2005, 37, 77-93.	3.3	32
16	Group-index engineering in silicon corrugated waveguides. <i>Optics Letters</i> , 2010, 35, 2708.	3.3	31
17	Sorting linearly polarized photons with a single scatterer. <i>Optics Letters</i> , 2014, 39, 1394.	3.3	31
18	WDM Photonic Microwave Filter With Variable Cosine Windowing Based on a DGD Module. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2272-2274.	2.5	27

#	ARTICLE	IF	CITATIONS
19	Slow-Light-Enhanced Silicon Optical Modulators Under Low-Drive-Voltage Operation. IEEE Photonics Journal, 2012, 4, 1306-1315.	2.0	27
20	Optically Beamformed Wideband Array Performance. IEEE Transactions on Antennas and Propagation, 2008, 56, 1594-1604.	5.1	25
21	FWM in silicon nanocrystal-based sandwiched slot waveguides. Optics Communications, 2010, 283, 435-437.	2.1	24
22	Tunable Photonic Microwave Filter With Single Bandpass Based on a Phase-Shifted Fiber Bragg Grating. IEEE Photonics Technology Letters, 2010, 22, 1467-1469.	2.5	23
23	Analysis of wave propagation in a two-dimensional photonic crystal with negative index of refraction: plane wave decomposition of the Bloch modes. Optics Express, 2005, 13, 4160.	3.4	22
24	Microwave photonics and radio-over-fiber research. IEEE Microwave Magazine, 2009, 10, 96-105.	0.8	22
25	Analysis of wave focusing inside a negative-index photonic-crystal slab. Optics Express, 2005, 13, 2858.	3.4	21
26	Generation of Multi-Gigabit-per-Second MQAM/MPSK-Modulated Millimeter-Wave Carriers Employing Photonic Vector Modulator Techniques. Journal of Lightwave Technology, 2007, 25, 3350-3357.	4.6	20
27	Ten gigabits per second 16-level quadrature amplitude modulated millimeter-wave carrier generation using dual-drive Mach-Zehnder modulators incorporated photonic-vector modulator. Optics Letters, 2008, 33, 1833.	3.3	20
28	Photonic-crystal 180° power splitter based on coupled-cavity waveguides. Applied Physics Letters, 2003, 83, 3033-3035.	3.3	19
29	Generation of highly directional beam by k-space filtering using a metamaterial flat slab with a small negative index of refraction. Applied Physics Letters, 2006, 89, 131111.	3.3	18
30	Coherent Control of a Plasmonic Nanoantenna Integrated on a Silicon Chip. ACS Photonics, 2018, 5, 2712-2717.	6.6	18
31	Joint Distribution of Polarization-Multiplexed UWB and WiMAX Radio in PON. Journal of Lightwave Technology, 2009, 27, 1912-1919.	4.6	16
32	All-Silicon On-Chip Optical Nanoantennas as Efficient Interfaces for Plasmonic Devices. ACS Photonics, 2019, 6, 1094-1099.	6.6	14
33	Modeling high-order plasmon resonances of a U-shaped nanowire used to build a negative-index metamaterial. Physical Review B, 2009, 79, .	3.2	13
34	Compensating intermodal dispersion in photonic crystal directional couplers. Optics Letters, 2005, 30, 3156.	3.3	10
35	Positive phase evolution of waves propagating along a photonic crystal with negative index of refraction. Optics Express, 2006, 14, 9805.	3.4	10
36	Full-Duplex DOCSIS/WirelessDOCSIS Fiber-Optical Network Employing Packaged AFPMs as Optical/Electrical Transducers. Journal of Lightwave Technology, 2007, 25, 673-684.	4.6	10

#	ARTICLE	IF	CITATIONS
37	Biconical Tapered Fibers Manipulation for Refractive Index and Strain Sensing Applications. IEEE Sensors Journal, 2015, 15, 1331-1335.	4.7	10
38	Dynamic spectral line-by-line pulse shaping by frequency comb shifting. Optics Letters, 2009, 34, 2084.	3.3	7
39	High frequency microwave signal generation using dual-wavelength emission of cascaded DFB fiber lasers with wavelength spacing tunability. Optics Communications, 2010, 283, 5165-5168.	2.1	7
40	Curvature investigation in tapered fibers and its application to sensing and mode conversion. Optics and Lasers in Engineering, 2015, 74, 109-113.	3.8	7
41	Low-cost refractive index and strain sensor based on tapered fibers. Optics Communications, 2016, 361, 99-103.	2.1	7
42	Characterisation of on-chip wireless interconnects based on silicon nanoantennas via near-field scanning optical microscopy. IET Optoelectronics, 2019, 13, 72-76.	3.3	7
43	All-optical decrementing of a packet's time-to-live (TTL) field using logic XOR gates. Optics Express, 2008, 16, 19734.	3.4	6
44	Combined Analysis of OFDM-UWB Transmission in Hybrid Wireless-Optical Access Networks. IEEE Photonics Technology Letters, 2009, 21, 1378-1380.	2.5	6
45	Reconfigurable Multiwavelength Source Based on Electrooptic Phase Modulation of a Pulsed Laser. IEEE Photonics Technology Letters, 2011, 23, 1175-1177.	2.5	6
46	Optical Phase Characterization of Photonic Integrated Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 417-421.	2.9	5
47	Performance Analysis of Photonic Vector Modulation Techniques for Multi-Gb/s Wireless Links. Journal of Lightwave Technology, 2008, 26, 2684-2691.	4.6	4
48	High order standing-wave plasmon resonances in silver u-shaped nanowires. Journal of Applied Physics, 2012, 112, 103104.	2.5	4
49	Experimental observation of intermodal dispersion in photonic crystal directional couplers. Journal of Applied Physics, 2008, 104, 123107.	2.5	3
50	Monitoring the Quality of Signal in Packet-Switched Networks Using Optical Correlators. Journal of Lightwave Technology, 2009, 27, 5417-5425.	4.6	3
51	High signal-to-noise ratio ultra-compact lab-on-a-chip microflow cytometer enabled by silicon optical antennas. Optics Express, 2018, 26, 25645.	3.4	3
52	All-Optical Self-Routing Latching Switch Based on Active Mach-Zehnder Interferometer. IEEE Photonics Technology Letters, 2006, 18, 2475-2477.	2.5	2
53	Simultaneous Base-band and mm-Wave Delivery of Gbps data Employing Photonic Vector Modulators. , 2007, , .		2
54	Experimental Comparison of Transmission Performance of Multichannel OFDM-UWB Signals on FTTH Networks. Journal of Lightwave Technology, 2009, 27, 1408-1414.	4.6	2

#	ARTICLE	IF	CITATIONS
55	Group delay and dispersion tailoring in nonadiabatic tapered fibers. Optical Fiber Technology, 2016, 31, 130-133.	2.7	1
56	The influence of the ASE noise on the cascadability of active Mach-Zehnder interferometer switches. Microwave and Optical Technology Letters, 2008, 50, 2629-2631.	1.4	0
57	Polarization synthesis and sorting with an integrated silicon nanoantenna. , 2014, , .		0
58	Fabrication of modulators and 2 \times 2 switches in SOI based on the carrier depletion mechanism for optical interconnects. , 2014, , .		0
59	Nonlinear effects generation in non-adiabatically tapered fibres. Optical Fiber Technology, 2015, 26, 172-175.	2.7	0
60	Photonic Bandgap (PBG). , 0, , .		0
61	Radio-over-Fibre Networks for 4G. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 268-291.	0.4	0