

Jose Mora

List of Publications by Year in descending order

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154
papers

2,729
citations

257450

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206112

48
g-index

155
all docs

155
docs citations

155
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave Photonic Signal Processing. Journal of Lightwave Technology, 2013, 31, 571-586.	4.6	494
2	Photonic microwave tunable single-bandpass filter based on a Mach-Zehnder interferometer. Journal of Lightwave Technology, 2006, 24, 2500-2509.	4.6	254
3	Optical UWB pulse generator using an N tap microwave photonic filter and phase inversion adaptable to different pulse modulation formats. Optics Express, 2009, 17, 5023.	3.4	130
4	A magnetostrictive sensor interrogated by fiber gratings for DC-current and temperature discrimination. IEEE Photonics Technology Letters, 2000, 12, 1680-1682.	2.5	114
5	Demonstration of incoherent microwave photonic filters with all-optical complex coefficients. IEEE Photonics Technology Letters, 2006, 18, 1744-1746.	2.5	81
6	Tunable all-optical negative multitap microwave filters based on uniform fiber Bragg gratings. Optics Letters, 2003, 28, 1308.	3.3	79
7	High-efficiency Q-switched erbium fiber laser using a Bragg grating-based modulator. Optics Communications, 2002, 210, 361-366.	2.1	62
8	BootOX: Practical Mapping of RDBs to OWL 2. Lecture Notes in Computer Science, 2015, , 113-132.	1.3	61
9	Tunable radio-frequency photonic filter based on an actively mode-locked fiber laser. Optics Letters, 2006, 31, 709.	3.3	60
10	Automatic tunable and reconfigurable fiberoptic microwave filters based on a broadband optical source sliced by uniform fiber Bragg gratings. Optics Express, 2002, 10, 1291.	3.4	53
11	Microwave photonic filters using low-cost sources featuring tunability, reconfigurability and negative coefficients. Optics Express, 2005, 13, 1412.	3.4	51
12	Single-Bandpass Microwave Photonic Filter With Tuning and Reconfiguration Capabilities. Journal of Lightwave Technology, 2008, 26, 2663-2670.	4.6	51
13	<title>Simple fiber optic device to interrogate fiber optic Bragg gratings used as sensors</title> . , 2001, , .		47
14	Dynamic fiber-optic add-drop multiplexer using Bragg gratings and acousto-optic-induced coupling. IEEE Photonics Technology Letters, 2003, 15, 84-86.	2.5	38
15	Transforming meteorological data into Linked Data. Semantic Web, 2013, 4, 285-290.	1.9	37
16	High-quality online-reconfigurable microwave photonic transversal filter with positive and negative coefficients. IEEE Photonics Technology Letters, 2005, 17, 2730-2732.	2.5	36
17	Tunable and reconfigurable microwave filter by use of a Bragg-grating-based acousto-optic superlattice modulator. Optics Letters, 2005, 30, 8.	3.3	33
18	Simultaneous transmission of 20x2 WDM/SCM-QKD and 4 bidirectional classical channels over a PON. Optics Express, 2012, 20, 16358.	3.4	33

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19	Highly chirped single-bandpass microwave photonic filter with reconfiguration capabilities. Optics Express, 2011, 19, 4566.	3.4	32
20	Highly selective microwave photonic filters based on active optical recirculating cavity and tuned modulator hybrid structure. Electronics Letters, 2005, 41, 1133.	1.0	31
21	Wavelength-switchable fiber laser using acoustic waves. IEEE Photonics Technology Letters, 2005, 17, 552-554.	2.5	31
22	Tunable chirp in Bragg gratings written in tapered core fibers. Optics Communications, 2002, 210, 51-55.	2.1	30
23	Experimental demonstration of subcarrier multiplexed quantum key distribution system. Optics Letters, 2012, 37, 2031.	3.3	29
24	Integrable high order UWB pulse photonic generator based on cross phase modulation in a SOA-MZI. Optics Express, 2013, 21, 22911.	3.4	29
25	Simple high-resolution wavelength monitor based on a fiber Bragg grating. Applied Optics, 2004, 43, 744.	2.1	27
26	High-Q microwave photonic filter with a tuned modulator. Optics Letters, 2005, 30, 2299.	3.3	24
27	Analysis of Subcarrier Multiplexed Quantum Key Distribution Systems: Signal, Intermodulation, and Quantum Bit Error Rate. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1607-1621.	2.9	23
28	Photonic arbitrary waveform generation applicable to multiband UWB communications. Optics Express, 2010, 18, 26259.	3.4	22
29	Radio-frequency low-coherence interferometry. Optics Letters, 2014, 39, 3634.	3.3	22
30	Optical Beamformer for 2-D Phased Array Antenna With Subarray Partitioning Capability. IEEE Photonics Journal, 2016, 8, 1-9.	2.0	22
31	Query Rewriting in RDF Stream Processing. Lecture Notes in Computer Science, 2016, , 486-502.	1.3	21
32	Tunable dispersion device based on a tapered fiber Bragg grating and nonuniform magnetic fields. IEEE Photonics Technology Letters, 2003, 15, 951-953.	2.5	20
33	Temperature sensor based on the power reflected by a Bragg grating in a tapered fiber. Applied Optics, 2004, 43, 2393.	2.1	20
34	Simultaneous temperature and ac-current measurements for high voltage lines using fiber Bragg gratings. Sensors and Actuators A: Physical, 2006, 125, 313-316.	4.1	19
35	Tunable Dispersion Compensator Based on a Fiber Bragg Grating Written in a Tapered Fiber. IEEE Photonics Technology Letters, 2004, 16, 2631-2633.	2.5	18
36	Symmetric reconfigurable capacity assignment in a bidirectional DWDM access network. Optics Express, 2007, 15, 16781.	3.4	18

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37	Photonic processing of microwave signals. IEE Proceedings: Optoelectronics, 2005, 152, 299-320.	0.8	17
38	Microwave photonic filters with arbitrary positive and negative coefficients using multiple phase inversion in SOA based XGM wavelength converter. Electronics Letters, 2005, 41, 921.	1.0	17
39	Continuous tuning of photonic transversal filter based on the modification of tapped weights. IEEE Photonics Technology Letters, 2006, 18, 1594-1596.	2.5	17
40	Subcarrier multiplexing tolerant dispersion transmission system employing optical broadband sources. Optics Express, 2009, 17, 4740.	3.4	17
41	Tunable chirped fibre Bragg grating device controlled by variable magnetic fields. Electronics Letters, 2002, 38, 118.	1.0	16
42	Mapping Analysis in Ontology-Based Data Access: Algorithms and Complexity. Lecture Notes in Computer Science, 2015, , 217-234.	1.3	16
43	High-Performance Low Coherence Interferometry Using SSB Modulation. IEEE Photonics Technology Letters, 2017, 29, 90-93.	2.5	15
44	Advanced Optical Processing of Microwave Signals. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	14
45	Continuously Tunable Microwave Photonic Filter With Negative Coefficients Using Cross-Phase Modulation in an SOA-MZ Interferometer. IEEE Photonics Technology Letters, 2008, 20, 526-528.	2.5	14
46	Centralized light-source optical access network based on polarization multiplexing. Optics Express, 2010, 18, 4240.	3.4	14
47	Nonlinear dispersion-based incoherent photonic processing for microwave pulse generation with full reconfigurability. Optics Express, 2012, 20, 6728.	3.4	14
48	A single bandpass tunable photonic transversal filter based on a broadband optical source and a mach-zehnder interferometer. , 0, , .		13
49	Novel Technique for Implementing Incoherent Microwave Photonic Filters With Negative Coefficients Using Phase Modulation and Single Sideband Selection. IEEE Photonics Technology Letters, 2006, 18, 1943-1945.	2.5	13
50	Dynamic optical transversal filters based on a tunable dispersion fiber Bragg grating. , 0, , .		12
51	Flexible Monocycle UWB Generation for Reconfigurable Access Networks. IEEE Photonics Technology Letters, 2010, 22, 878-880.	2.5	12
52	Radio over fiber transceiver employing phase modulation of an optical broadband source. Optics Express, 2010, 18, 21750.	3.4	12
53	Microwave Photonics Parallel Quantum Key Distribution. IEEE Photonics Journal, 2012, 4, 931-942.	2.0	12
54	Effective Computation of Maximal Sound Approximations of Description Logic Ontologies. Lecture Notes in Computer Science, 2014, , 164-179.	1.3	12

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55	Tunable microwave photonic filter free from baseband and carrier suppression effect not requiring single sideband modulation using a Mach-Zehnder configuration. Optics Express, 2006, 14, 7960.	3.4	11
56	Demonstration of multiplexed sensor system combining low coherence interferometry and microwave photonics. Optics Express, 2017, 25, 12182.	3.4	11
57	Highly tunable optically switched time delay line for transversal filtering. Electronics Letters, 2003, 39, 1799.	1.0	10
58	Continuous-wave and giant-pulse operations of a single-frequency erbium-doped fiber laser. IEEE Photonics Technology Letters, 2005, 17, 28-30.	2.5	10
59	Highly Chirped Reconfigurable Microwave Photonic Filter. IEEE Photonics Technology Letters, 2011, 23, 1192-1194.	2.5	10
60	Optical Arbitrary Waveform Generator Using Incoherent Microwave Photonic Filtering. IEEE Photonics Technology Letters, 2011, 23, 618-620.	2.5	10
61	Dispersion Supported BB84 Quantum Key Distribution Using Phase Modulated Light. IEEE Photonics Journal, 2011, 3, 433-440.	2.0	10
62	Multiband-UWB Signals Generation Based on Incoherent Microwave Photonic Filters. IEEE Photonics Technology Letters, 2014, 26, 142-145.	2.5	10
63	UWB Pulses Generation and Modulation Through a Customized FBG-Based Photonic Device. IEEE Photonics Technology Letters, 2016, 28, 2319-2322.	2.5	9
64	On the evaluation of an optical OFDM radio over FSO system with IM-DD for high-speed indoor communications. , 2017, , .		9
65	On the 40 GHz Remote Versus Local Photonic Generation for DML-Based C-RAN Optical Fronthaul. Journal of Lightwave Technology, 2021, 39, 6712-6723.	4.6	9
66	Chirped Waveform Generation With Envelope Reconfigurability for Pulse Compression Radar. IEEE Photonics Technology Letters, 2016, 28, 748-751.	2.5	8
67	Towards a Systematic Benchmarking of Ontology-Based Query Rewriting Systems. Lecture Notes in Computer Science, 2013, , 376-391.	1.3	8
68	Electronic tuning of delay lines based on chirped fiber gratings for phased arrays powered by a single optical carrier. Optics Communications, 2004, 238, 277-280.	2.1	7
69	Microwave photonic filtering scheme for BB84 Subcarrier Multiplexed Quantum Key Distribution. , 2010, , .		7
70	Engineering optimisations in query rewriting for OBDA. , 2013, , .		7
71	Scalable UWB photonic generator based on the combination of doublet pulses. Optics Express, 2014, 22, 15346.	3.4	7
72	Incoherent Photonic Processing for Chirped Microwave Pulse Generation. IEEE Photonics Technology Letters, 2017, 29, 7-10.	2.5	7

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73	Wavelength Data Rewriter for Centralized-Source Radio-Over-Fiber Access Networks. IEEE Photonics Technology Letters, 2010, 22, 1102-1104.	2.5	6
74	Harmonic distortion in microwave photonic filters. Optics Express, 2012, 20, 8871.	3.4	6
75	Quantum model of light transmission in array waveguide gratings. Optics Express, 2013, 21, 14841.	3.4	6
76	High-order UWB pulses scheme to generate multilevel modulation formats based on incoherent optical sources. Optics Express, 2013, 21, 28914.	3.4	6
77	Towards Mapping Analysis in Ontology-Based Data Access. Lecture Notes in Computer Science, 2014, , 108-123.	1.3	6
78	kyrie2: Query Rewriting under Extensional Constraints in \mathcal{ELHIO} . Lecture Notes in Computer Science, 2014, , 568-583.	1.3	6
79	Accurate Control of Active Recirculating Structures for Microwave Photonics Signal Filtering. Journal of Lightwave Technology, 2008, 26, 1626-1631.	4.6	5
80	Experimental demonstration of a novel configuration for BB84 frequency coded QKD. , 2011, , .		5
81	UWB Monocycle Generator Based on the Non-Linear Effects of an SOA-Integrated Structure. IEEE Photonics Technology Letters, 2014, 26, 690-693.	2.5	5
82	Integrated 16-ps Pulse Generator Based on a Reflective SOA-EAM for UWB Schemes. IEEE Photonics Technology Letters, 2016, 28, 2180-2182.	2.5	5
83	OOFDM Signal Transmission Using a Single Optical Broadband Source. IEEE Photonics Technology Letters, 2017, 29, 563-566.	2.5	5
84	White light sources filtered with fiber Bragg gratings for RF-photonics applications. Optics Communications, 2003, 222, 221-225.	2.1	4
85	Theoretical Model and Experimental Verification of 2 \times imes, \$1 Mach-Zehnder EOM With Dispersive Optical Fiber Link Propagation. IEEE Journal of Quantum Electronics, 2008, 44, 165-174.	1.9	4
86	Experimental evaluation of the transmission in a low cost SCM/WDM radio over fibre system employing optical broadband sources and interferometric structures. , 2009, , .		4
87	High-order UWB pulse generation based on a microwave photonic filter using incoherent optical sources. , 2011, , .		4
88	UWB Doublet Generation Employing Cross-Phase Modulation in a Semiconductor Optical Amplifier Mach-Zehnder Interferometer. IEEE Photonics Journal, 2013, 5, 7101106-7101106.	2.0	4
89	WDM Optical Access Network for Full-Duplex and Reconfigurable Capacity Assignment Based on PolMUX Technique. Photonics, 2014, 1, 503-515.	2.0	4
90	Sensitivity Enhancement for Low-Coherence Interferometry. IEEE Photonics Technology Letters, 2017, 29, 1735-1738.	2.5	4

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91	Chirped Microwave Photonic Filter with High Frequency Tuning Capability. , 2011, , .		4
92	Highly selective Microwave Photonic filters based on new FBGs-EDF recirculating cavities and tuned modulators. , 2005, , .		3
93	Tunable and reconfigurable single bandpass photonic microwave filter using a high-birefringence Sagnac loop and DWDM channel selector. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	3
94	A microwave photonics transistor. , 2013, , .		3
95	A novel MWP proposal for low-coherence interferometry applications. , 2015, , .		3
96	Low-Coherence Interferometry Using Microwave Photonics for Multilayered Samples. Journal of Lightwave Technology, 2018, 36, 4611-4617.	4.6	3
97	Bidirectional WDM-OOFDM access network based on a sliceable optical transceiver with colorless ONUs. Optical Fiber Technology, 2018, 45, 98-105.	2.7	3
98	<title>Q-switching of an erbium-doped fiber laser using Bragg gratings</title>. , 2001, , .		2
99	Flexible Capacity Assignment in a Multiwavelength Radio Over Fiber Access Network. , 2007, , .		2
100	Selective Multicast in a Dynamic Wavelength Router for DWDM Converged Wired/Wireless Access Networks. , 2010, , .		2
101	Strategies for P2P connectivity in reconfigurable converged wired/wireless access networks. Optics Express, 2010, 18, 26196.	3.4	2
102	Reconfigurability and tunability of a chirped microwave photonic pulse generator. , 2010, , .		2
103	Bidirectional transmission of digital signals in a WDM-PolMUX optical access network. , 2010, , .		2
104	Optical single sideband transmitter using phase modulation and a photonic integrated filter. , 2013, , .		2
105	Novel approach for Low Coherence Interferometry based on a microwave photonic architecture. , 2015, , .		2
106	Experimental photonic generation of chirped pulses using nonlinear dispersion-based incoherent processing. Optics Express, 2015, 23, 13634.	3.4	2
107	Scalable High-Order UWB Pulse Generation Employing an FBG-Based Photonic Superstructure. IEEE Photonics Technology Letters, 2015, 27, 2146-2149.	2.5	2
108	Semantic Analysis of R2RML Mappings for Ontology-Based Data Access. Lecture Notes in Computer Science, 2016, , 25-38.	1.3	2

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109	High-Order UWB Pulses Generation Adaptable to Bi-Phase Modulation. IEEE Photonics Technology Letters, 2016, 28, 2371-2374.	2.5	2
110	SCM Adaptation to Improve Scanning Rate in RF Interferometry Applications. IEEE Photonics Technology Letters, 2017, 29, 999-1002.	2.5	2
111	Reconfigurable optical OFDM signal transmitter based on sliced ASE source for DD MB-OFDM next generation WDM access networks. , 2017, , .		2
112	Suppression of Harmonic and Intermodulation Distortion for SCM-WDM RoF Systems based on the Spectral Slicing of Optical Broadband Sources. , 2010, , .		2
113	Harmonic and Intermodulation Distortion Analysis in Directly Modulated Lasers Over Local and Remote Photonically Generated Millimeter-Wave Signals. Journal of Lightwave Technology, 2022, 40, 5128-5140.	4.6	2
114	<title>Acoustically induced wavelength switching of a fiber laser</title>. , 2004, , .		1
115	Computer-controlled reconfigurable Microwave Photonic filters featuring high-quality windowing profiles. , 2005, , .		1
116	Active recirculating structures for UMTS noise and interference suppression. , 2006, , .		1
117	Experimental demonstration of the continuous tuning of microwave photonic filters by sinusoidal modulation of the filter coefficients. , 2006, , .		1
118	Bidirectional Dynamic Capacity Allocation by Using Optically Switched Foldback AWG. , 2007, , .		1
119	Microwave Photonic Signal Processing. , 0, , 191-237.		1
120	Peer-to-Peer architectures for converged wired/wireless access networks. , 2010, , .		1
121	Analysis of harmonic distortion involved in microwave photonic filters. , 2011, , .		1
122	Experimental demonstration of Subcarrier Multiplexed Quantum Key Distribution system feasibility. , 2011, , .		1
123	Enabling quantum communications through accurate photons polarization control. , 2013, , .		1
124	High order UWB pulses generation based on a scalable phase-to-intensity technique. , 2015, , .		1
125	Real-time Microwave Photonic technique for Low-Coherence Interferometry applications. , 2016, , .		1
126	Broadband Optical Sources for Low-Cost WDM-MB-OFDM Networks. IEEE Communications Letters, 2017, 21, 1759-1762.	4.1	1

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127	Analysis of key parameters in MWP-LCI systems. , 2017, , .		1
128	Advanced RF Interferometry Structure for Improving Operation Range. IEEE Photonics Technology Letters, 2018, 30, 1637-1640.	2.5	1
129	Microwave Photonics Solutions for In-Building Networks Signal Transmission. , 2010, , .		1
130	<title>Dynamic add-and-drop in optical fiber</title>. , 2001, 4419, 379.		0
131	Microwave photonics based on fiber Bragg gratings. , 0, , .		0
132	All-optical tunable microwave filters with negative multitaps based on uniform fiber Bragg gratings. , 0, , .		0
133	Tunable and reconfigurable microwave filter based on acoustically modulated fiber Bragg grating. , 0, , .		0
134	Simple wavelength monitor for fibre Bragg grating sensors. , 2004, , .		0
135	Interrogation system for a temperature sensor based on a fiber Bragg grating made in a tapered fiber. , 2004, , .		0
136	Microwave photonic transversal filter for intermodal dispersion equalisation. Electronics Letters, 2005, 41, 193.	1.0	0
137	Microwave photonic filters with negative coefficients: Fundamentals, advantages and recent advances. , 2005, , .		0
138	Microwave Photonic Filters with arbitrary number of positive and negative coefficients using multiple phase inversion in a SOA based XGM wavelength converter. , 2005, , .		0
139	Tunable Microwave Photonic Filter Free from Carrier Suppression Effect with Positive and Negative Coefficients. , 2006, , .		0
140	Optical carrier processor of microwave/millimeter-wave photonic signals by using a fiber Bragg grating in transmission. , 2006, , .		0
141	Tunable all-optical microwave filter using Cross-Phase Modulation in Semiconductor Optical Amplifier Mach-Zehnder interferometer. , 2006, , .		0
142	Tunable Microwave Photonic Filter Free from Carrier Suppression Effect and Baseband Response not Requiring Single Sideband Modulation. , 2006, , .		0
143	Optical modulation formats by combination of two time-delayed orthogonally polarized double sideband modulated signals. , 2008, , .		0
144	Transmission of Optically Generated 1.25 Gb/s QAM Wireless Signals in a Dynamically Reconfigurable Optical WDM Network. , 2009, , .		0

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145	Generation of an UWB monocycle employing cross-phase modulation in a SOA-MZ interferometer. , 2013, , .		0
146	UWB doublet generation in an integrated semiconductor optical amplifier Mach-Zehnder interferometer. , 2013, , .		0
147	Amplification of the transmission rate for quantum key distribution based on subcarrier multiplexing. , 2013, , .		0
148	Ultra-wideband pulses generation by means of incoherent optical processing compatible with radio-over-fibre systems. , 2015, , .		0
149	Paired SSB optical OFDM channels for high spectral efficient signal transmission over DWDM networks. Optics Communications, 2016, 370, 239-244.	2.1	0
150	Third-Order Dispersion Compensation for Resolution Enhancement in RF Interferometry. , 2018, , .		0
151	Multiband IFoF signal transmission based on DML with local photonic 40 GHz up conversion. , 2021, , .		0
152	<title>Tunable chirp in Bragg gratings written in tapered core fibers</title>. , 2001, , .		0
153	Advanced Microwave Photonic structure for Low Coherence Interferometry. , 2016, , .		0
154	Novel multiplexing sensing technique combining Microwave Photonics and Low Coherence Interferometry. , 2016, , .		0