

# Salvador Sales

## List of Publications by Year in descending order

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243  
papers

6,275  
citations

81743

39  
h-index

76769

74  
g-index

243  
all docs

243  
docs citations

243  
times ranked

3935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated microwave photonics. <i>Laser and Photonics Reviews</i> , 2013, 7, 506-538.	4.4	614
2	Microwave Photonic Signal Processing. <i>Journal of Lightwave Technology</i> , 2013, 31, 571-586.	2.7	494
3	Reconfigurable Radio Access Networks Using Multicore Fibers. <i>IEEE Journal of Quantum Electronics</i> , 2016, 52, 1-7.	1.0	379
4	Discrete-time optical Processing of microwave signals. <i>Journal of Lightwave Technology</i> , 2005, 23, 702-723.	2.7	337
5	Fiber Bragg Gratings for Medical Applications and Future Challenges: A Review. <i>IEEE Access</i> , 2020, 8, 156863-156888.	2.6	187
6	Integrable microwave filter based on a photonic crystal delay line. <i>Nature Communications</i> , 2012, 3, 1075.	5.8	154
7	Multi-Core Optical Fibers With Bragg Gratings as Shape Sensor for Flexible Medical Instruments. <i>IEEE Sensors Journal</i> , 2019, 19, 5878-5884.	2.4	136
8	Fiber Optic Shape Sensors: A comprehensive review. <i>Optics and Lasers in Engineering</i> , 2021, 139, 106508.	2.0	136
9	Microwave photonic filters with negative coefficients based on phase inversion in an electro-optic modulator. <i>Optics Letters</i> , 2003, 28, 1415.	1.7	127
10	Broadband true time delay for microwave signal processing, using slow light based on stimulated Brillouin scattering in optical fibers. <i>Optics Express</i> , 2010, 18, 22599.	1.7	115
11	Simultaneous measurement of humidity and temperature based on a partially coated optical fiber long period grating. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 135-141.	4.0	115
12	Experimental demonstration of fibre-optic delay line filters with negative coefficients. <i>Electronics Letters</i> , 1995, 31, 1095-1096.	0.5	100
13	Packaged Optical Sensors Based on Regenerated Fiber Bragg Gratings for High Temperature Applications. <i>IEEE Sensors Journal</i> , 2012, 12, 107-112.	2.4	100
14	Microwave Photonics for Optical Sensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 327-339.	1.9	98
15	Wideband 360° microwave photonic phase shifter based on slow light in semiconductor optical amplifiers. <i>Optics Express</i> , 2010, 18, 6156.	1.7	97
16	Multipoint Two-Dimensional Curvature Optical Fiber Sensor Based on a Nontwisted Homogeneous Four-Core Fiber. <i>Journal of Lightwave Technology</i> , 2015, 33, 2445-2450.	2.7	95
17	Long Period Gratings in Multicore Optical Fibers for Directional Curvature Sensor Implementation. <i>Journal of Lightwave Technology</i> , 2018, 36, 1063-1068.	2.7	92
18	Tunable and reconfigurable multi-tap microwave photonic filter based on dynamic Brillouin gratings in fibers. <i>Optics Express</i> , 2012, 20, 6157.	1.7	88

#	ARTICLE	IF	CITATIONS
19	Tunable all-optical negative multitap microwave filters based on uniform fiber Bragg gratings. Optics Letters, 2003, 28, 1308.	1.7	79
20	Enhancing light slow-down in semiconductor optical amplifiers by optical filtering. Optics Letters, 2008, 33, 1084.	1.7	72
21	Widely Tunable Microwave Photonic Notch Filter Based on Slow and Fast Light Effects. IEEE Photonics Technology Letters, 2009, 21, 167-169.	1.3	69
22	Optical microwave filter based on spectral slicing by use of arrayed waveguide gratings. Optics Letters, 2003, 28, 1802.	1.7	65
23	Spatial Division Multiplexed Microwave Signal processing by selective grating inscription in homogeneous multicore fibers. Scientific Reports, 2017, 7, 41727.	1.6	65
24	Multi-tap complex-coefficient incoherent microwave photonic filters based on optical single-sideband modulation and narrow band optical filtering. Optics Express, 2008, 16, 295.	1.7	60
25	Long fiber Bragg grating sensor interrogation using discrete-time microwave photonic filtering techniques. Optics Express, 2013, 21, 28175.	1.7	56
26	Microwave phase shifter with controllable power response based on slow- and fast-light effects in semiconductor optical amplifiers. Optics Letters, 2009, 34, 929.	1.7	54
27	Automatic tunable and reconfigurable fiberoptic microwave filters based on a broadband optical source sliced by uniform fiber Bragg gratings. Optics Express, 2002, 10, 1291.	1.7	53
28	Transverse Strain Measurements Using the Birefringence Effect in Fiber Bragg Gratings. IEEE Photonics Technology Letters, 2007, 19, 966-968.	1.3	52
29	Tunable complex-valued multi-tap microwave photonic filter based on single silicon-on-insulator microring resonator. Optics Express, 2011, 19, 12402.	1.7	52
30	Enhancement of the sensitivity of a temperature sensor based on fiber Bragg gratings via weak value amplification. Optics Letters, 2015, 40, 3962.	1.7	49
31	High-Capacity 5G Fronthaul Networks Based on Optical Space Division Multiplexing. IEEE Transactions on Broadcasting, 2019, 65, 434-443.	2.5	49
32	Low-Loss Photonic Crystal Fiber Interferometers for Sensor Networks. Journal of Lightwave Technology, 2010, 28, 3542-3547.	2.7	48
33	Magnetic actuator based on giant magnetostrictive material Terfenol-D with strain and temperature monitoring using FBG optical sensor. Measurement: Journal of the International Measurement Confederation, 2016, 80, 201-206.	2.5	48
34	Fully tunable 360° microwave photonic phase shifter based on a single semiconductor optical amplifier. Optics Express, 2011, 19, 17421.	1.7	47
35	Multi-fiber distributed thermal profiling of minimally invasive thermal ablation with scattering-level multiplexing in MgO-doped fibers. Biomedical Optics Express, 2019, 10, 1282.	1.5	47
36	Slow and Fast Light Effects and Their Applications to Microwave Photonics Using Semiconductor Optical Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3022-3038.	2.9	46

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37	Dynamic Microwave Photonic Filter Using Separate Carrier Tuning Based on Stimulated Brillouin Scattering in Fibers. IEEE Photonics Technology Letters, 2010, 22, 1753-1755.	1.3	45
38	Synthesis of fiber-optic delay line filters. Journal of Lightwave Technology, 1995, 13, 2003-2012.	2.7	44
39	Low Cost Plastic Optical Fiber Pressure Sensor Embedded in Mattress for Vital Signal Monitoring. Sensors, 2017, 17, 2900.	2.1	41
40	Multicore fiber-Bragg-grating-based directional curvature sensor interrogated by a broadband source with a sinusoidal spectrum. Optics Letters, 2017, 42, 3710.	1.7	41
41	Harnessing slow light. Nature Photonics, 2011, 5, 731-733.	15.6	38
42	Spectral characterization of differential group delay in uniform fiber Bragg gratings. Optics Express, 2005, 13, 9954.	1.7	36
43	Twisting measurement and compensation of optical shape sensor based on spun multicore fiber. Mechanical Systems and Signal Processing, 2020, 140, 106700.	4.4	36
44	Microwave Photonics Filtering Technique for Interrogating a Very-Weak Fiber Bragg Grating Cascade Sensor. IEEE Photonics Journal, 2014, 6, 1-10.	1.0	35
45	Time and frequency pump-probe multiplexing to enhance the signal response of Brillouin optical time-domain analyzers. Optics Express, 2014, 22, 28584.	1.7	34
46	Measurement uncertainty of multicore optical fiber sensors used to sense curvature and bending direction. Measurement: Journal of the International Measurement Confederation, 2019, 132, 35-46.	2.5	34
47	Continuous Liquid-Level Sensor Based on a Long-Period Grating and Microwave Photonics Filtering Techniques. IEEE Sensors Journal, 2016, 16, 1652-1658.	2.4	33
48	Tilted fiber Bragg gratings in multicore optical fibers for optical sensing. Optics Letters, 2017, 42, 1460.	1.7	33
49	Influence of the Grating Parameters on the Polarization Properties of Fiber Bragg Gratings. Journal of Lightwave Technology, 2009, 27, 1000-1010.	2.7	31
50	An Interrogation Technique of FBC Cascade Sensors Using Wavelength to Radio-Frequency Delay Mapping. Journal of Lightwave Technology, 2015, 33, 2222-2227.	2.7	31
51	All-Optical Fiber Hanbury Brown & Twiss Interferometer to study 1300nm single photon emission of a metamorphic InAs Quantum Dot. Scientific Reports, 2016, 6, 27214.	1.6	30
52	New fiber optic sensor for monitoring temperatures in concrete structures during fires. Sensors and Actuators A: Physical, 2017, 254, 116-125.	2.0	30
53	Long Weak FBG Sensor Interrogation Using Microwave Photonics Filtering Technique. IEEE Photonics Technology Letters, 2014, 26, 2039-2042.	1.3	29
54	Synthesis of all-optical microwave filters using Mach-Zehnder lattices. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1458-1462.	2.9	28

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55	Fiber Optic Refractive Index Distributed Multi-Sensors by Scattering-Level Multiplexing With MgO Nanoparticle-Doped Fibers. IEEE Sensors Journal, 2020, 20, 2504-2510.	2.4	28
56	Reconfigurable fiber-optic-based RF filters using current injection in multimode lasers. IEEE Photonics Technology Letters, 2001, 13, 1224-1226.	1.3	26
57	Temperature Sensor Based on Colloidal Quantum Dots-PMMA Nanocomposite Waveguides. IEEE Sensors Journal, 2012, 12, 3069-3074.	2.4	26
58	Curvature, twist and pose measurements using fiber Bragg gratings in multi-core fiber: A comparative study between helical and straight core fibers. Sensors and Actuators A: Physical, 2021, 317, 112442.	2.0	25
59	Transition technologies towards 6G networks. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	25
60	All-Optical flip-flop operation using a SOA and DFB laser diode optical feedback combination. Optics Express, 2007, 15, 6190.	1.7	24
61	Temperature gradient sensor based on a long-fiber Bragg grating and time-frequency analysis. Optics Letters, 2014, 39, 5729.	1.7	24
62	Evaluation of new regenerated fiber Bragg grating high-temperature sensors in an ISO 834 fire test. Fire Safety Journal, 2015, 71, 332-339.	1.4	24
63	Pulse distortion in optical fibers and waveguides with arbitrary chromatic dispersion. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2523.	0.9	22
64	Interrogation of a Sensor Array of Identical Weak FBGs Using Dispersive Incoherent OFDR. IEEE Photonics Technology Letters, 2016, 28, 1154-1156.	1.3	22
65	Experimental study of the influence of FBG length on optical shape sensor performance. Optics and Lasers in Engineering, 2020, 126, 105878.	2.0	22
66	Solutions to the synthesis problem of optical delay line filters. Optics Letters, 1995, 20, 2438.	1.7	21
67	Microwave V-I transmission matrix formalism for the analysis of photonic circuits: application to fiber Bragg gratings. Journal of Lightwave Technology, 2003, 21, 3125-3134.	2.7	21
68	Time-frequency analysis of long fiber Bragg gratings with low reflectivity. Optics Express, 2013, 21, 7171.	1.7	21
69	Sampled true time delay line operation by inscription of long period gratings in few-mode fibers. Optics Express, 2019, 27, 22787.	1.7	21
70	Tunable dispersion device based on a tapered fiber Bragg grating and nonuniform magnetic fields. IEEE Photonics Technology Letters, 2003, 15, 951-953.	1.3	20
71	Broadband microwave photonic fully tunable filter using a single heterogeneously integrated III-V/SOI-microdisk-based phase shifter. Optics Express, 2012, 20, 10796.	1.7	20
72	Effects of core position uncertainty on optical shape sensor accuracy. Measurement: Journal of the International Measurement Confederation, 2019, 139, 21-33.	2.5	19

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73	Multicore optical fiber shape sensors suitable for use under gamma radiation. Optics Express, 2019, 27, 29026.	1.7	19
74	Temperature-insensitive optical tilt sensor based on a single eccentric-core fiber Bragg grating. Optics Letters, 2019, 44, 5570.	1.7	19
75	Analytical and numerical analysis of phase and amplitude errors in the performance of arrayed waveguide gratings. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 1130-1141.	1.9	18
76	Periodic Time-Domain Modulation for the Electrically Tunable Control of Optical Pulse Train Envelope and Repetition Rate Multiplication. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 377-383.	1.9	18
77	Experimental and analytical evaluation of the response time of high temperature fiber optic sensors. Sensors and Actuators A: Physical, 2016, 243, 167-174.	2.0	18
78	Continuous tuning of photonic transversal filter based on the modification of tapped weights. IEEE Photonics Technology Letters, 2006, 18, 1594-1596.	1.3	17
79	Microwave Photonic Filtering for Interrogating FBG-Based Multicore Fiber Curvature Sensor. IEEE Photonics Technology Letters, 2017, 29, 1707-1710.	1.3	17
80	Microwave Photonics Filtering Interrogation Technique Under Coherent Regime For Hot Spot Detection on a Weak FBGs Array. Journal of Lightwave Technology, 2018, 36, 1039-1045.	2.7	17
81	Refractive Index and Temperature Sensing Using Inter-Core Crosstalk in Multicore Fibers. Journal of Lightwave Technology, 2019, 37, 4703-4709.	2.7	17
82	Tunable chirped fibre Bragg grating device controlled by variable magnetic fields. Electronics Letters, 2002, 38, 118.	0.5	16
83	Controlling Microwave Signals by Means of Slow and Fast Light Effects in SOA-EA Structures. IEEE Photonics Technology Letters, 2007, 19, 1589-1591.	1.3	15
84	Optical mixing of microwave signals in a nonlinear semiconductor laser amplifier modulator. Optics Express, 2002, 10, 183.	1.7	14
85	Recent Breakthroughs in Microwave Photonics. IEEE Photonics Journal, 2011, 3, 311-315.	1.0	14
86	Ultracompact electro-optic phase modulator based on III-V-on-silicon microdisk resonator. Optics Letters, 2012, 37, 2379.	1.7	14
87	Opto-Mechanical Interactions in Multi-Core Optical Fibers and Their Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-13.	1.9	13
88	Coupled-core fiber Bragg gratings for low-cost sensing. Scientific Reports, 2022, 12, 1280.	1.6	13
89	Amplified double coupler fiber-optic delay line filter. IEEE Photonics Technology Letters, 1995, 7, 75-77.	1.3	12
90	Dynamic optical transversal filters based on a tunable dispersion fiber Bragg grating. , 0, , .		12

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91	KLT-Based Interrogation Technique for FBG Multiplexed Sensor Tracking. Journal of Lightwave Technology, 2017, 35, 3387-3392.	2.7	12
92	Characterization of a FBG sensor interrogation system based on a mode-locked laser scheme. Optics Express, 2017, 25, 24650.	1.7	12
93	Regenerated Fiber Bragg Gratings in Multicore Fiber for Multi-Parameter Sensing. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-6.	1.9	12
94	Temperature-insensitive curvature sensor based on Bragg gratings written in strongly coupled multicore fiber. Optics Letters, 2021, 46, 3933.	1.7	12
95	Fiber-optic delay-line filters employing fiber loops: signal and noise analysis and experimental characterization. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 2129.	0.8	11
96	Multiwavelength optical SSB generation for dispersion mitigation in WDM fibre radio systems using AWG multiplexer. Electronics Letters, 2002, 38, 1194.	0.5	11
97	Effects of fourth-order dispersion in very high-speed optical time-division multiplexed transmission. Optics Letters, 2002, 27, 960.	1.7	11
98	Transverse force sensor exploiting the birefringence effect in uniform fibre Bragg gratings. , 2007, , .		11
99	An amplified coarse wavelength division multiplexing self-referencing sensor network based on phase-shifted FBGs in transmissive configuration. Measurement Science and Technology, 2009, 20, 034017.	1.4	11
100	Time resolved emission at 1.3 $\mu$ m of a single InAs quantum dot by using a tunable fibre Bragg grating. Nanotechnology, 2014, 25, 035204.	1.3	11
101	MWP phase shifters integrated in PbS-SU8 waveguides. Optics Express, 2015, 23, 14351.	1.7	11
102	Analog Radio over Fiber Links for Future 5G Radio Access Networks. , 2019, , .		11
103	Colloidal Quantum Dots-PMMA Waveguides as Integrable Microwave Photonic Phase Shifters. IEEE Photonics Technology Letters, 2014, 26, 402-404.	1.3	10
104	[INVITED] Cascade FBGs distributed sensors interrogation using microwave photonics filtering techniques. Optics and Laser Technology, 2016, 77, 144-150.	2.2	10
105	Arrayed waveguide Sagnac interferometer. Optics Letters, 2003, 28, 197.	1.7	9
106	Novel technique for distributed fibre sensing based on faint long gratings (FLOGs). Proceedings of SPIE, 2014, , .	0.8	9
107	Experimental Demonstration of 360 $^{\circ}$ Tunable RF Phase Shift Using Slow and Fast Light Effects. , 2009, , .		9
108	Wavelength conversion of SCM signals using semiconductor optical amplifiers: theory, experiments, and applications. Journal of Lightwave Technology, 2003, 21, 961-972.	2.7	8

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109	A New Model of Bandwidth Growth Estimation Based on the Gompertz Curve: Application to Optical Access Networks. <i>Journal of Lightwave Technology</i> , 2004, 22, 2460-2468.	2.7	8
110	Coherent direct sequence optical code multiple access encoding-decoding efficiency versus wavelength detuning. <i>Optics Letters</i> , 2007, 32, 1896.	1.7	8
111	Chemical composition gratings in Germanium doped and Boron-Germanium co-doped fibers. <i>Proceedings of SPIE</i> , 2010, , .	0.8	8
112	Fast Incoherent OFDR Interrogation of FBG Arrays Using Sparse Radio Frequency Responses. <i>Journal of Lightwave Technology</i> , 2018, 36, 4393-4400.	2.7	8
113	Fiber Bragg Grating Sensors for Underwater Vibration Measurement: Potential Hydropower Applications. <i>Sensors</i> , 2021, 21, 4272.	2.1	8
114	Experimental characterization of XGM-SOA-based wavelength converted SCM systems. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 114-116.	1.3	7
115	Multiservice Hybrid Radio Over Fiber and Baseband AWG-PON Using CWDM and Spectral Periodicity of Arrayed Waveguide Gratings. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 599-601.	1.3	7
116	Noise Spectrum Characterization of Slow Light SOA-Based Microwave Photonic Phase Shifters. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1005-1007.	1.3	7
117	Intermodulation and harmonic distortion in slow light Microwave Photonic phase shifters based on Coherent Population Oscillations in SOAs. <i>Optics Express</i> , 2010, 18, 25677.	1.7	7
118	The Influence of Optical Filtering on the Noise Performance of Microwave Photonic Phase Shifters Based on SOAs. <i>Journal of Lightwave Technology</i> , 2011, 29, 1746-1752.	2.7	7
119	A High-Temperature Fiber Sensor Using a Low Cost Interrogation Scheme. <i>Sensors</i> , 2013, 13, 11653-11659.	2.1	7
120	Experimental and numerical analysis of a hybrid FBG long gauge sensor for structural health monitoring. <i>Measurement Science and Technology</i> , 2014, 25, 125107.	1.4	7
121	Novel and significant results on the non-recirculating delay line with a fiber loop. <i>IEEE Photonics Technology Letters</i> , 1995, 7, 1439-1440.	1.3	6
122	Microwave Signal Processing over Multicore Fiber. <i>Photonics</i> , 2017, 4, 49.	0.9	6
123	Bend-Direction and Rotation Plastic Optical Fiber Sensor. <i>Sensors</i> , 2020, 20, 5405.	2.1	6
124	Twisting compensation of optical multicore fiber shape sensors for flexible medical instruments. , 2020, , .		6
125	Pultruded FRP Beams with Embedded Fibre Bragg Grating Optical Sensors for Strain Measurement and Failure Detection. <i>Sensors</i> , 2021, 21, 7019.	2.1	6
126	Monitoring temperature and vibration in a long weak grating array with short-pulse generation using a compact gain-switching laser diode module. <i>Optics Express</i> , 2019, 27, 38661.	1.7	6



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127	Synthesis of 1D Bragg gratings by a layer-aggregation method. Optics Letters, 2007, 32, 2312.	1.7	5
128	Broadband microwave photonic phase shifter based on polarisation rotation. Electronics Letters, 2008, 44, 684.	0.5	5
129	Monitoring of a steel incrementally launched bridge construction with strain and temperature FBGs sensors. , 2010, , .		5
130	Optical fiber sensors embedded in concrete for measurement of temperature in a real fire test. Optical Engineering, 2011, 50, 124404.	0.5	5
131	Performance of a high-temperature sensor based on regenerated fiber Bragg gratings. Proceedings of SPIE, 2011, , .	0.8	5
132	High-temperature optical sensor based in high birefringence regenerated FBGs and a simple interrogation scheme. , 2013, , .		5
133	Spot event detection along a large-scale sensor based on ultra-weak fiber Bragg gratings using timeâ€frequency analysis. Applied Optics, 2016, 55, 1054.	2.1	5
134	Strongly coupled multicore fiber with FBGs for multipoint and multiparameter sensing. Optical Fiber Technology, 2020, 58, 102315.	1.4	5
135	Comment on "New topologies of fiber-optic delay-line filters" by Kamal K. Goel. IEEE Photonics Technology Letters, 1995, 7, 822-823.	1.3	4
136	Hybrid Interrogation System for Distributed Fiber Strain Sensors and Point Temperature Sensors Based on Pulse Correlation and FBGs. IEEE Photonics Technology Letters, 2009, 21, 1671-1673.	1.3	4
137	Fiber Strain Measurement for Wide Region Quasidistributed Sensing by Optical Correlation Sensor with Region Separation Techniques. Journal of Sensors, 2010, 2010, 1-10.	0.6	4
138	Harmonic Distortion in Microwave Photonic Phase Shifters Based on Coherent Population Oscillations in SOAs. IEEE Photonics Technology Letters, 2010, 22, 899-901.	1.3	4
139	Slow light fiber systems in microwave photonics. Proceedings of SPIE, 2011, , .	0.8	4
140	WDM compatible and electrically tunable SPE-OCDMA system based on the temporal self-imaging effect. Optics Letters, 2011, 36, 400.	1.7	4
141	Microwave photonic devices based on multicore fibers. , 2014, , .		4
142	Parallel Recording of Single Quantum Dot Optical Emission Using Multicore Fibers. IEEE Photonics Technology Letters, 2016, 28, 1257-1260.	1.3	4
143	Measurement uncertainty of 7-core multicore fiber shape sensors. , 2019, , .		4
144	Highly Accurate Synthesis of Fiber and Waveguide Bragg Gratings by an Impedance Reconstruction Layer-Aggregation Method. IEEE Journal of Quantum Electronics, 2007, 43, 889-898.	1.0	3

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145	Effect and optimization of burst assembly algorithms for video traffic transmissions over OBS networks. , 2008, , .		3
146	Amplified CWDM self-referencing sensor network based on phase-shifted FBGs in transmissive configuration. , 2008, , .		3
147	Figures of merit for microwave photonic phase shifters based on semiconductor optical amplifiers. Optics Express, 2012, 20, 10519.	1.7	3
148	A microwave photonics transistor. , 2013, , .		3
149	Fiber optic liquid-level sensor using a long fiber Bragg grating. Proceedings of SPIE, 2013, , .	0.8	3
150	Weak fiber Bragg grating cascade sensor interrogation using microwave photonic filtering techniques. , 2014, , .		3
151	Continuous Broadband MWP True-Time Delay With PbS-PMMA and PbS-SU8 Waveguides. IEEE Photonics Technology Letters, 2016, 28, 1657-1660.	1.3	3
152	Directional curvature sensor based on long period gratings in multicore optical fiber. Proceedings of SPIE, 2017, , .	0.8	3
153	Experimental Demonstration of Extended 5G Digital Fronthaul Over a Partially-Disaggregated WDM/SDM Network. IEEE Journal on Selected Areas in Communications, 2021, 39, 2804-2815.	9.7	3
154	Selective Grating Inscription in Multicore Fibers for Radiofrequency Signal Processing. , 2017, , .		3
155	Theory of integrated ring resonators using electro-optical couplers. Fiber and Integrated Optics, 1995, 14, 245-263.	1.7	2
156	Cross-phase wavelength conversion of SCM signals: harmonic and intermodulation distortion analysis. IEEE Photonics Technology Letters, 2001, 13, 723-725.	1.3	2
157	PDL and DGD Reduction in Bragg Gratings Using Twisted Fibers for the Inscription. IEEE Photonics Technology Letters, 2009, 21, 1689-1691.	1.3	2
158	Wavelength encoded fiber sensor for extreme temperature range. Proceedings of SPIE, 2010, , .	0.8	2
159	Fiber Bragg grating sensors embedded in concrete samples for a normalized fire test. Proceedings of SPIE, 2011, , .	0.8	2
160	Monitoring of reinforced composites processed by microwave radiation using fiber-Bragg gratings. Proceedings of SPIE, 2014, , .	0.8	2
161	Very high Q-factor microwave photonic FIR filter based on a ultralong FBG cascade. , 2014, , .		2
162	Fiber-distributed Signal Processing: Where the Space Dimension Comes into Play. , 2017, , .		2

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163	Fronthaul links based on Analog Radio over Fiber. , 2019, , .		2
164	On the Use of Microwave Photonics Techniques for Novel Sensing Applications. , 2019, , .		2
165	Temperature-insensitive 2D inclinometer based on pendulum-assisted fiber Bragg gratings. , 2019, , .		2
166	Opto-Mechanical Point Sensing in a Multi-Core Fiber. , 2018, , .		2
167	Multiplexing of distributed temperature sensing achieved by nanoparticle-doped fibers. , 2019, , .		2
168	Penalty Evaluation Due to the Cascade and Frequency Misalignment of AWG-Based Optical Add-Drop Multiplexers in 10 Gb/s Metro Core Ring Networks. Fiber and Integrated Optics, 2004, 23, 59-65.	1.7	1
169	Metropolitan Optical Networks: When to Change to DWDM. Fiber and Integrated Optics, 2004, 23, 109-120.	1.7	1
170	Use of the polarization properties of fiber Bragg gratings for sensing purposes. , 2006, 6189, 516.		1
171	Relationship Between Chromatic Dispersion and Differential Group Delay in Weakly Birefringent Fiber Gratings. IEEE Photonics Technology Letters, 2008, 20, 437-439.	1.3	1
172	Analysis of the Dynamic Responses of SOA Wavelength Converters Using Linear Frequency Resolved Gating Technique. IEEE Photonics Technology Letters, 2008, 20, 1079-1081.	1.3	1
173	Microwave Photonic Signal Processing. , 0, , 191-237.		1
174	Experimental demonstration of a FBG-based temporal optical pulse shaping scheme dual to spatial arrangements for its use in OCDMA systems. , 2009, , .		1
175	True Time Delay on tunable Microwave Photonic Filter based on Stimulated Brillouin Scattering in fibers. , 2010, , .		1
176	microwave photonic phase shifter based on single semiconductor optical amplifier. , 2011, , .		1
177	Bend Sensor Using Fiber Bragg Gratings to Determinate the Distance from the Sensor to the Neutral Axis in Compression and Extension. IEEE Latin America Transactions, 2012, 10, 2040-2044.	1.2	1
178	Enhanced response in Brillouin distributed optical fibre sensors by simultaneous time and frequency pump multiplexing. Proceedings of SPIE, 2014, , .	0.8	1
179	Multipoint two-dimensional curvature optical fibre sensor. Proceedings of SPIE, 2014, , .	0.8	1
180	Enhanced accuracy sensors using multicore optical fibres based on RFBGs for temperatures up to 1000°C. , 2016, , .		1

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181	Multi-cavity Microwave Photonics devices built upon multicore fibres. , 2016, , .		1
182	Phase modulation to intensity modulation conversion for sensitive FBG sensor interrogation. Proceedings of SPIE, 2017, , .	0.8	1
183	Multiplexing FBG sensors combining microwave photonics and phase modulation. , 2017, , .		1
184	Space-division Multiplexing for fiber-wireless communications. , 2017, , .		1
185	Experimental Validation of Hybrid WDM/SDM Signal Delivery for Mobile Fronthaul over PONs Using SDN-Enabled Sliceable Bitrate Variable Transceivers. , 2018, , .		1
186	Analog Optical Links for 5G Fronthaul Networks. , 2018, , .		1
187	Multiplexing techniques and applications in fiber-optic spatially resolved sensing networks. , 2019, , .		1
188	Application of fiber optic high temperature sensors for structural monitoring of structures submitted to fire. IABSE Symposium Report, 2014, , .	0.0	1
189	Demonstration of Tunable Microwave Photonic Notch Filters Using Slow and Fast Light Effects in Semiconductor Optical Amplifiers. , 2009, , .		1
190	Monitorizaci3n de deformaciones y temperaturas en la estructura de un t3nel artificial de alta velocidad mediante sensores 3pticos puntuales, de longitud y distribuidos. Informes De La Construcci3n, 2015, 67, e071.	0.1	1
191	Refractive index and temperature sensor based on TFBGs in multicore fiber. , 2018, , .		1
192	Microwave Photonics for Optical Fiber Sensors. , 2019, , .		1
193	High-voltage fiber sensor based on fiber Bragg grating in poled fiber. , 2019, , .		1
194	Source phase-induced noise in unbalanced time domain multiplexed sensor networks. Journal of Lightwave Technology, 1995, 13, 1264-1268.	2.7	0
195	"Cross-phase wavelength conversion of scm signals: harmonic and intermodulation distortion analysis". IEEE Photonics Technology Letters, 2001, 13, 1376-1376.	1.3	0
196	Polarisation independent intensity modulation setup based on serial polarisation diversity arrangement for header rewriting in label swapping networks. Electronics Letters, 2003, 39, 1461.	0.5	0
197	Introduction to the Special Issue: Fiber Optics in Spain. Fiber and Integrated Optics, 2004, 23, 57-58.	1.7	0
198	A new fibre optic sensor independent of temperature variations and fabricated with fibre Bragg gratings. , 2004, , .		0

#	ARTICLE	IF	CITATIONS
199	A new interrogation system for a large number of strain sensors using fiber Bragg grating for application in residential buildings. , 2004, , .		0
200	Physical layer limitations in high-speed electro/optical nodes. The european approach. , 0, , .		0
201	Applications of the Slow and Fast Light Effects in SOA-EA Structures in the Radio Over Fiber Links. , 2007, , .		0
202	Determination of the fiber birefringence induced by transversal loads by means of fiber Bragg gratings. Proceedings of SPIE, 2007, , .	0.8	0
203	Fiber optic-based sensors design to test concrete structures. , 2007, , .		0
204	Slow and fast light effects in semiconductor waveguides for applications in microwave photonics. , 2008, , .		0
205	Microwave phase shifter based on Mach-Zehnder intensity modulator and polarization rotation in an SOA. , 2008, , .		0
206	Fiber Bragg gratings for measuring pH and strain in concrete structures. Proceedings of SPIE, 2008, , .	0.8	0
207	Controlling the Speed of Light in Semiconductor Waveguides: Physics and Applications. , 2009, , .		0
208	Optical pulse train repetition rate and envelope control based on the optical fourier transform. , 2009, , .		0
209	Microwave photonics processing controlling the speed of light in semiconductor waveguides. , 2009, , .		0
210	Novel system to interrogate distributed fiber strain sensors and point temperature sensors based on pulse correlation and FBGs. Proceedings of SPIE, 2009, , .	0.8	0
211	Experimental Demonstration of a FBG-Based Temporal Optical Pulse Shaping Scheme Dual to Spatial Arrangements for its Use in OCDMA Systems. , 2009, , .		0
212	Slow and fast light effects in semiconductor waveguides for applications in microwave photonics. Proceedings of SPIE, 2009, , .	0.8	0
213	Harmonic Distortion in Slow Light SOA based Microwave Photonic Phase Shifters. , 2010, , .		0
214	Figures of merit for Microwave Photonic phase shifters based on coherent population oscillation slow and fast light effects. , 2010, , .		0
215	Evaluation of serial multiplexed photonic crystal fiber interferometric sensors. , 2010, , .		0
216	On the noise performance of slow light SOA-based microwave photonic phase shifters. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
217	Optical Code Division Multiple Access coder/decoder pairs based on temporal optical pulse shaping with fiber Bragg Gratings and electrooptic modulators. , 2010, , .		0
218	Optical signal processing with electrooptic modulators and dispersion. , 2011, , .		0
219	Performance metrics evaluation of cascaded SOA based slow light microwave photonic phase shifters. , 2011, , .		0
220	Complex-coefficient microwave photonic tunable filter using slow light silicon-on-insulator-based microring resonator. , 2011, , .		0
221	True time delays and phase shifters based on slow light technologies for microwave photonics applications. , 2011, , .		0
222	Recent implementations of fiber and integrated tunable microwave photonics filters. , 2012, , .		0
223	Integrated microwave photonic dispersive delay line. , 2012, , .		0
224	Integrable microwave photonic phase-shifter based on Colloidal Quantum Dots-PMMA waveguide. , 2013, , .		0
225	Integrated microwave photonic phase-shifters based on colloidal quantum dots-PMMA nanocomposite waveguides. , 2013, , .		0
226	Temperature gradient measurements based on a long fiber Bragg grating and time-domain analysis. , 2014, , .		0
227	Temperature Gradient Sensor Based on a Long Fiber Bragg Grating and Time Waveform Analysis. , 2014, , .		0
228	Microwave photonics filtering technique for interrogating long weak fiber Bragg grating sensors. , 2014, , .		0
229	MWP true time delay implemented in PbS-SU8 waveguides. , 2015, , .		0
230	Interrogation of a cascaded FBG sensor using a wavelength-to-delay mapping technique. , 2015, , .		0
231	FBGs cascade interrogation technique based on wavelength-to-delay mapping and KLT analysis. Proceedings of SPIE, 2016, , .	0.8	0
232	Foreword to the Special Issue on European Conference on Optical Communications (ECOC 2015). Journal of Lightwave Technology, 2016, 34, 1406-1410.	2.7	0
233	Microwave photonics filtering interrogation technique under coherent regime for hot spot detection on cascaded FBG fiber. Proceedings of SPIE, 2017, , .	0.8	0
234	FBGs based multicore fiber curvature sensor interrogation using microwave photonics filtering techniques. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
235	Generation of mmWave 5G Signals Using Microwave Photonics. , 2018, , .		0
236	Intermodulation and Harmonic Distortion in Slow Light SOA based Microwave Photonic Phase Shifters. , 2011, , .		0
237	High Spatial Resolution Fiber Optic Sensors and Their Impact in Biomedical Measurements and Diagnostic. , 2018, , .		0
238	RoF links in the front-haul network for the future 5G communications. , 2018, , .		0
239	Partially Coated Long Period Fiber Bragg Gratings in Multicore Optical Fibers. , 2018, , .		0
240	Tilted Fiber Bragg Gratings for Selective Coupling in a Multicore Optical Fiber. , 2018, , .		0
241	Sub-cm Temperature Monitoring of 500 Weak Gratings Array Through Chirped Ultra-Short Light Pulses. , 2019, , .		0
242	A new procedure for tunnel convergence monitoring using Optical Multicore Fiber Shape Sensor. , 2021, , .		0
243	Coherent and Incoherent Regimes for Microwave Photonics Fiber Sensing. , 2020, , .		0