

Carmen Vazquez

List of Publications by Year in descending order

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154
papers

1,786
citations

304743

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h-index

345221

36
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154
all docs

154
docs citations

154
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	Beaming power: Photovoltaic laser power converters for power-by-light. <i>Joule</i> , 2022, 6, 340-368.	24.0	36
2	Polymer Optical Fiber Plantar Pressure Sensors: Design and Validation. <i>Sensors</i> , 2022, 22, 3883.	3.8	4
3	SI-POF Supporting Power-Over-Fiber in Multi-Gbit/s Transmission for In-Home Networks. <i>Journal of Lightwave Technology</i> , 2021, 39, 112-121.	4.6	26
4	High Spatial Resolution Optical Fiber Two Color Pyrometer With Fast Response. <i>IEEE Sensors Journal</i> , 2021, 21, 2942-2950.	4.7	7
5	Optical Fiber Pyrometer Designs for Temperature Measurements Depending on Object Size. <i>Sensors</i> , 2021, 21, 646.	3.8	8
6	Cleaving of PMMA Microstructured Polymer Optical Fibers with 3- and 4-Ring Hexagonal Cladding Structures. <i>Polymers</i> , 2021, 13, 1366.	4.5	0
7	Fast and Localized Temperature Measurements During Simulated Earthquakes in Carbonate Rocks. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091856.	4.0	14
8	Sensing Applications in Aircrafts Using Polymer Optical Fibres. <i>Sensors</i> , 2021, 21, 3605.	3.8	5
9	Optimized Power-over-Fiber System to Remotely Feed Smart Nodes for Low-Power Consumption Applications. , 2021, , .		4
10	Optically Powered Radio-Over-Fiber Systems in Support of 5G Cellular Networks and IoT. <i>Journal of Lightwave Technology</i> , 2021, 39, 4262-4269.	4.6	50
11	Power Over Fiber in C-RAN With Low Power Sleep Mode Remote Nodes Using SMF. <i>Journal of Lightwave Technology</i> , 2021, 39, 4951-4957.	4.6	18
12	Optically Feeding 1.75 W With 100 m MMF in Efficient C-RAN Front-Hauls With Sleep Modes. <i>Journal of Lightwave Technology</i> , 2021, 39, 7948-7955.	4.6	15
13	Power-over-fiber in a 10â€™km long multicore fiber link within a 5G fronthaul scenario. <i>Optics Letters</i> , 2021, 46, 5348.	3.3	19
14	Friction during earthquakes: 25 years of experimental studies. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 052032.	0.3	3
15	Power-over-Fiber Impact on 5G NR Transmission in Standard Single Mode Fibers. , 2021, , .		5
16	Effect of the Fiber's Core Size on a Two Color Pyrometer. , 2020, , .		0
17	The Role of Power-over-Fiber in C-RAN Fronthauling Towards 5G. , 2020, , .		4
18	Self-referenced optical networks for remote interrogation of quasi-distributed fiber-optic intensity sensors. <i>Optical Fiber Technology</i> , 2020, 58, 102291.	2.7	7

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19	High spatial resolution optical fiber thermometers for applications in harsh environments. , 2020, , .		1
20	Smart Remote Nodes Fed by Power Over Fiber in Internet of Things Applications. IEEE Sensors Journal, 2019, 19, 7328-7334.	4.7	29
21	Power over Fiber in Radio over Fiber Systems in 5G Scenarios. , 2019, , .		4
22	SDN/NFV 5G Fronthaul Networks Integrating Analog/Digital RoF, Optical Beamforming, Power over Fiber and Optical SDM Technologies. , 2019, , .		3
23	Experiments on Shared- and Dedicated- Power over Fiber Scenarios in Multi-core Fibers. , 2019, , .		12
24	Multicore Fiber Scenarios Supporting Power Over Fiber in Radio Over Fiber Systems. IEEE Access, 2019, 7, 158409-158418.	4.2	35
25	Very Localized Temperature Measurements and Applications Using Optical Fiber Pyrometers. , 2019, , .		1
26	Wearable POF-based heart-rate monitor. , 2019, , .		1
27	Experimental demonstration of advanced service management in SDN/NFV fronthaul. , 2019, , .		0
28	Response time and sensitivity in TDM fiber optic sensor network. , 2019, , .		0
29	Remote Optical Powering Using Fiber Optics in Hazardous Environments. Journal of Lightwave Technology, 2018, 36, 748-754.	4.6	46
30	SDN-Based Multi-Core Power-Over-Fiber (PoF) System for 5G Fronthaul: Towards PoF Pooling. , 2018, , .		14
31	Role of interleukin 1-beta in the inflammatory response in a fatty acid amide hydrolase-knockout mouse model of Alzheimer's disease. Biochemical Pharmacology, 2018, 157, 202-209.	4.4	11
32	Cannabinoid CB2 receptors in the mouse brain: relevance for Alzheimer's disease. Journal of Neuroinflammation, 2018, 15, 158.	7.2	98
33	Fiber-Optic Pyrometer with Optically Powered Switch for Temperature Measurements. Sensors, 2018, 18, 483.	3.8	18
34	Power, sensitivity, and response time optimization in TDM self-reference intensity sensor networks with ring resonators. Optics Express, 2018, 26, 31264.	3.4	2
35	Optical power delivery for feeding remote sensors in health and safety applications. , 2018, , .		2
36	Integration of power over fiber on RoF systems in different scenarios. Proceedings of SPIE, 2017, , .	0.8	7

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37	Fiber-Optic Pyrometer for Very Localized Temperature Measurements in a Turning Process. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 278-283.	2.9	18
38	Dual-Wavelength Speckle-Based SI-POF Sensor for Cost-Effective Detection of Microvibrations. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 217-222.	2.9	14
39	Temperature sensing using optical fibers in harsh environments. , 2017, , .		1
40	Temperature Measurement and Numerical Prediction in Machining Inconel 718. Sensors, 2017, 17, 1531.	3.8	41
41	Monitoring systems and remote powering for next generation broadband Access Networks. , 2017, , .		3
42	Unobtrusive monitoring of heart rate using a cost-effective speckle-based SI-POF remote sensor. Proceedings of SPIE, 2017, , .	0.8	1
43	Photo-Thermo-Mechanical Behaviour Under Quasi-Static Tensile Conditions of a PMMA-Core Optical Fibre. Strain, 2016, 52, 3-13.	2.4	4
44	Tip timing measurements for structural health monitoring in the first stage of the compressor of an aircraft engine. , 2016, , .		0
45	Dual-wavelength speckle-based SI-POF sensor for frequency detection and localization of remote vibrations. , 2016, , .		0
46	Optical-fiber pyrometer positioning accuracy analysis. , 2016, , .		1
47	Multimode fibers in millimeter-wave evolution for 5G cellular networks. Proceedings of SPIE, 2016, , .	0.8	2
48	Two-Color Pyrometer for Process Temperature Measurement During Machining. Journal of Lightwave Technology, 2016, 34, 1380-1386.	4.6	47
49	Visible WDM System for Real-Time Multi-Gb/s Bidirectional Transmission Over 50-m SI-POF. IEEE Photonics Technology Letters, 2016, 28, 1696-1699.	2.5	8
50	New Fiber Supervision Technique for Passive Optical Networks Supporting Mobile Services. IEEE Photonics Technology Letters, 2016, 28, 501-504.	2.5	5
51	WDM-PON Preventive Optical Monitoring System with Colourless Reflectors. , 2016, , .		6
52	Recent Advances in Wavelength-Division-Multiplexing Plastic Optical Fiber Technologies. , 2015, , .		1
53	Polymer Optical Fiber Temperature Sensor With Dual-Wavelength Compensation of Power Fluctuations. Journal of Lightwave Technology, 2015, 33, 2716-2723.	4.6	40
54	Visible CWDM system design for Multi-Gbit/s transmission over SI-POF. Proceedings of SPIE, 2015, , .	0.8	1

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55	Optical tip clearance measurements for rotating disk characterization. , 2015, , .		1
56	Endocannabinoids regulate the activity of astrocytic hemichannels and the microglial response against an injury: In vivo studies. Neurobiology of Disease, 2015, 79, 41-50.	4.4	34
57	Different Configurations of a Reflective Intensity-Modulated Optical Sensor to Avoid Modal Noise in Tip-Clearance Measurements. Journal of Lightwave Technology, 2015, 33, 2663-2669.	4.6	19
58	Spectral and spatial characterization of perfluorinated graded-index polymer optical fibers for the distribution of optical wireless communication cells. Applied Optics, 2015, 54, 1138.	1.8	6
59	Endocannabinoid regulation of amyloid-induced neuroinflammation. Neurobiology of Aging, 2015, 36, 3008-3019.	3.1	29
60	Efficient Multiplexer/Demultiplexer for Visible WDM Transmission over SI-POF Technology. Journal of Lightwave Technology, 2015, 33, 3711-3718.	4.6	18
61	A Self-Referenced Optical Intensity Sensor Network Using POFBGs for Biomedical Applications. Sensors, 2014, 14, 24029-24045.	3.8	15
62	WDM sensor network approach: Bridging the gap towards POF-based photonic sensing. , 2014, , .		0
63	Optical reconfigurable demultiplexer based on Bragg grating assisted ring resonators. Optics Express, 2014, 22, 19156.	3.4	7
64	Comparison of three different configurations of an optical sensor for tip-clearance measurements in turbines. Proceedings of SPIE, 2014, , .	0.8	1
65	Self-referenced temperature sensor based on a polymer optical fiber macro-bend. , 2014, , .		2
66	Effects of elongation on polymer optical fiber power losses for sensing purposes. Proceedings of SPIE, 2014, , .	0.8	1
67	Tolerance analysis for efficient MMI devices in silicon photonics. , 2014, , .		1
68	Broadband 1Å–2 liquid crystal router with low thermal dependence for polymer optical fiber networks. Optics Communications, 2014, 333, 281-287.	2.1	1
69	Spectral method for fast measurement of twisted nematic liquid crystal cell parameters. Applied Optics, 2014, 53, 5230.	1.8	0
70	Low power consumption silicon photonics tuning filters based on compound microring resonators. Proceedings of SPIE, 2013, , .	0.8	0
71	A Temperature Sensor Based on a Polymer Optical Fiber Macro-Bend. Sensors, 2013, 13, 13076-13089.	3.8	72
72	Remote Interrogation of WDM Fiber-Optic Intensity Sensors Deploying Delay Lines in the Virtual Domain. Sensors, 2013, 13, 5870-5880.	3.8	14

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73	Synthesis of Asymmetric Flat-Top Birefringent Interleaver Based on Digital Filter Design and Genetic Algorithm. IEEE Photonics Journal, 2013, 5, 7100113-7100113.	2.0	13
74	A Polymer Optical Fiber Fuel Level Sensor: Application to Paramotoring and Powered Paragliding. Sensors, 2012, 12, 6186-6197.	3.8	9
75	Reconfigurable 1Å–2 wavelength selective switch using high birefringence nematic liquid crystals. Applied Optics, 2012, 51, 5960.	1.8	7
76	Temperature impairment characterization in radio-over-multimode fiber systems. Proceedings of SPIE, 2012, , .	0.8	0
77	Interrogation of remote intensity-based fiber-optic sensors deploying delay lines in the virtual domain. Proceedings of SPIE, 2012, , .	0.8	1
78	1 Å– 2 Optical Router With Control of Output Power Level Using Twisted Nematic Liquid Crystal Cells. Molecular Crystals and Liquid Crystals, 2012, 553, 36-43.	0.9	3
79	Î²âˆ™Amyloid exacerbates inflammation in astrocytes lacking fatty acid amide hydrolase through a mechanism involving PPARâ€†±, PPARâ€†³ and TRPV1, but not CB₁ or CB₂ receptors. British Journal of Pharmacology, 2012, 166, 1474-1489.	5.4	65
80	Temperature sensor based on fiber optic pyrometer in material removal processes. , 2012, , .		1
81	Advanced multifunctional optical switch for multimode optical fiber networks. Optics Communications, 2012, 285, 2802-2808.	2.1	6
82	Polymer Optical Fiber Intensity-Based Sensor for Liquid-Level Measurements in Volumetric Flasks for Industrial Application. , 2012, 2012, 1-7.		5
83	Dual-core photonic crystal fibers for tunable polarization mode dispersion compensation. Optics Express, 2011, 19, 21680.	3.4	18
84	Analysis of the electric field propagation method: theoretical model applied to perfluorinated graded-index polymer optical fiber links. Optics Letters, 2011, 36, 4116.	3.3	9
85	Signal Processing, Management and Monitoring in Transmission Networks. Signals and Communication Technology, 2011, , 53-122.	0.5	0
86	Radio-over-fibre technologies arising from the Building the future Optical Network in Europe (BONE) project. IET Optoelectronics, 2010, 4, 247-259.	3.3	23
87	Radio-frequency self-referencing system for monitoring drop fibres in wavelength division multiplexing passive optical networks. IET Optoelectronics, 2010, 4, 226-234.	3.3	8
88	Coarse WDM networking of self-referenced fiber-optic intensity sensors with reconfigurable characteristics. Optics Express, 2010, 18, 4396.	3.4	22
89	Synthesis of optical filters using microring resonators with ultra-large FSR. Optics Express, 2010, 18, 25936.	3.4	6
90	Multiplexer and Variable Optical Attenuator Based on PDLC for Polymer Optical Fiber Networks. Molecular Crystals and Liquid Crystals, 2009, 502, 130-142.	0.9	14

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91	A Self-Referencing Intensity Based Polymer Optical Fiber Sensor for Liquid Detection. <i>Sensors</i> , 2009, 9, 6446-6455.	3.8	44
92	An integrated view on monitoring and compensation for dynamic optical networks: from management to physical layer. <i>Photonic Network Communications</i> , 2009, 18, 191-210.	2.7	9
93	Maximum entropy estimation of the bubble size distribution in fluidized beds. <i>Chemical Engineering Science</i> , 2009, 64, 2307-2319.	3.8	27
94	Experimental analysis of temperature dependence in multimode optical fiber links for radio-over-fiber applications. , 2009, , .		2
95	Photonics in switching: enabling technologies and subsystem design. <i>Journal of Optical Networking</i> , 2009, 8, 404.	2.5	21
96	Radio-Frequency Self-Referencing Technique With Enhanced Sensitivity for Coarse WDM Fiber Optic Intensity Sensors. <i>Journal of Lightwave Technology</i> , 2009, 27, 475-482.	4.6	21
97	Use of a Novel Fiber Optical Strain Sensor for Monitoring the Vertical Deflection of an Aircraft Flap. <i>IEEE Sensors Journal</i> , 2009, 9, 1219-1225.	4.7	32
98	Tap-and-2-Split Switch Design Based on Integrated Optics for Light-Tree Routing in WDM Networks. <i>Journal of Lightwave Technology</i> , 2009, 27, 2506-2517.	4.6	6
99	Self-referencing model for electro-optical WDM fiber-optic intensity-based sensor network. , 2009, , .		0
100	Tunable, narrow-band, grating-assisted microring reflectors. <i>Optics Communications</i> , 2008, 281, 4910-4916.	2.1	7
101	Modelling and electro-optical testing of suspended particle devices. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1483-1487.	6.2	117
102	Electrical FIR Filter With Optical Coefficients for Self-Referencing WDM Intensity Sensors. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 45-47.	2.5	12
103	Power-Cost-Effective Node Architecture for Light-Tree Routing in WDM Networks. , 2008, , .		2
104	Self-referencing techniques in photonics sensors and multiplexing. , 2007, , .		1
105	Switches and tunable filters based on ring resonators and liquid crystals. , 2007, , .		5
106	Enhanced instrumentation system to characterize the electric behavior of AFLC displays. , 2007, , .		0
107	Ring resonator with an internal Sagnac loop for dispersion compensation in DWDM backbone networks. , 2007, , .		3
108	Tunable feedback resonator based on a nematic liquid crystal cell as variable capacitance. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0

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109	Ring Resonators with Sagnac Loops for Photonic Processing in DWDM Backbone Networks. , 2007, , .		0
110	Optical Switch for Instrumentation Based on Liquid Crystals. , 2007, , .		0
111	Tunable, grating-assisted single-ring laser mirrors. , 2007, , .		0
112	Synthesis of Optical Filters Using Sagnac Interferometer in Ring Resonator. IEEE Photonics Technology Letters, 2007, 19, 1877-1879.	2.5	7
113	Optoelectronic multiplexer for digital data processing based on lipid crystal pixels and optical fiber elements. Opto-electronics Review, 2007, 15, .	2.4	4
114	Self-Referencing Fiber-Optic Intensity Sensors Using Ring Resonators and Fiber Bragg Gratings. IEEE Photonics Technology Letters, 2006, 18, 2374-2376.	2.5	14
115	CWDM self-referencing sensor network based on ring resonators in reflective configuration. Optics Express, 2006, 14, 4601.	3.4	24
116	Reconfigurable optical multiplexer based on liquid crystals for polymer optical fiber networks. Opto-electronics Review, 2006, 14, .	2.4	13
117	Self-Referencing Technique in Reflection Mode for Fibre-Optic Intensity Sensors Using Ring Resonators. , 2006, , .		2
118	Variable optical attenuator made by using new electrochromic devices. , 2005, , .		0
119	Self-referencing fibre-optic intensity strain sensors. , 2005, 5855, 767.		2
120	Variable optical attenuator for perfluorinated gradual index polymer optical fiber using a polymer dispersed liquid crystal cell. , 2005, , .		0
121	Self-referencing intensity-encoded fibre optic sensors using radio-frequency ring resonators. , 2005, , .		1
122	Development of a 2x2 optical switch for plastic optical fiber using liquid crystal cells. , 2005, , .		1
123	Applications of recirculating optical configurations on filters and lasers. , 2005, , .		3
124	Sagnac loop in ring resonators for tunable optical filters. Journal of Lightwave Technology, 2005, 23, 2555-2567.	4.6	20
125	An Analogueâ€“Digital Instrumentation System for Characterizing Electrical Behavior of Antiferroelectric Liquid Crystal Display Pixels. Japanese Journal of Applied Physics, 2004, 43, 4376-4378.	1.5	3
126	A plastic fiber optic liquid level sensor. , 2004, , .		2

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127	Multi-sensor system using plastic optical fibers for intrinsically safe level measurements. <i>Sensors and Actuators A: Physical</i> , 2004, 116, 22-32.	4.1	64
128	Displays and Photonics Application Group Activities. <i>Fiber and Integrated Optics</i> , 2004, 23, 231-247.	2.5	0
129	Characterization protocol to evaluate chiral smectic liquid crystals for high-end display applications. <i>Optics Express</i> , 2004, 12, 1205.	3.4	0
130	Broadband 1 μ m–2 polymer optical fiber switches using nematic liquid crystals. <i>Optics Communications</i> , 2003, 224, 57-62.	2.1	20
131	Spatial distribution of the electric field in liquid crystal dispersions devices by using a finite-element method. <i>Journal of Molecular Liquids</i> , 2003, 108, 107-117.	4.9	2
132	Tunable optical filters using compound ring resonators for DWDM. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1085-1087.	2.5	23
133	Optical router for optical fiber sensor networks based on a liquid crystal cell. <i>IEEE Sensors Journal</i> , 2003, 3, 513-518.	4.7	12
134	Electrical Model for Thresholdless Antiferroelectric Liquid Crystal Cells. <i>Ferroelectrics</i> , 2002, 271, 149-154.	0.6	8
135	Cost-effective microcontrolled optoelectronic portable color identifier for visual impaired persons. <i>Microwave and Optical Technology Letters</i> , 2002, 35, 309-310.	1.4	1
136	Electrical Model for Thresholdless Antiferroelectric Liquid Crystal Cells. <i>Ferroelectrics</i> , 2002, 271, 149-154.	0.6	3
137	Electro-optical simulation of a-Si thin-film-transistor liquid-crystal display pixels. <i>Microwave and Optical Technology Letters</i> , 2001, 29, 198-199.	1.4	0
138	Mode filter using multimode interference principles: Design and tolerance analysis for accessing waveguides supporting two guided modes. <i>Microwave and Optical Technology Letters</i> , 2000, 26, 140-142.	1.4	4
139	Design and tolerance analysis of a router with an amplified resonator and Bragg gratings. <i>Applied Optics</i> , 2000, 39, 1934.	2.1	18
140	Accessing guide first-order mode influence and optimize tolerances in multimode interference couplers. , 1998, 3491, 386.		3
141	<title>Stabilization in an optical fiber interferometer using a semiconductor laser</title>. , 1997, 3099, 354.		2
142	Optical Amplified Recirculating Delay Lines Transient Response Effect on Hybrid Fiber Buses. <i>Optical Fiber Technology</i> , 1997, 3, 65-71.	2.7	0
143	Tunable ring resonator filter for OFDM transmission systems. <i>Microwave and Optical Technology Letters</i> , 1995, 8, 321-323.	1.4	7
144	Amplified Recirculating Delay Lines as Fiber-optic Decoders in TV Systems. <i>Optical Fiber Technology</i> , 1995, 1, 369-372.	2.7	1

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145	Performance parameters and applications of a modified amplified recirculating delay line. Fiber and Integrated Optics, 1995, 14, 347-358.	2.5	4
146	Fabry-Perot method for the characterization of integrated optical directional couplers. Applied Optics, 1995, 34, 6874.	2.1	3
147	Three-dimensional method for simulation of multimode interference couplers. Journal of Lightwave Technology, 1995, 13, 2296-2299.	4.6	12
148	Analysis of double-parallel amplified recirculating optical-delay lines. Applied Optics, 1994, 33, 1015.	2.1	11
149	Amplified fiber-optic recirculating delay lines. Journal of Lightwave Technology, 1994, 12, 294-305.	4.6	38
150	Multimode interference filter to solve degradation on coupler common-mode rejection. , 0, , .		4
151	New optical filter employing multireflection mirror to provide design flexibility for WDMA. , 0, , .		2
152	Novel tunable optical filter employing a fiber loop mirror for synthesis applications in WDM. , 0, , .		3
153	Measurements on passive tunable optical filters for DWDM. , 0, , .		0
154	Multi-sensor system for level measurements with optical fibres. , 0, , .		3