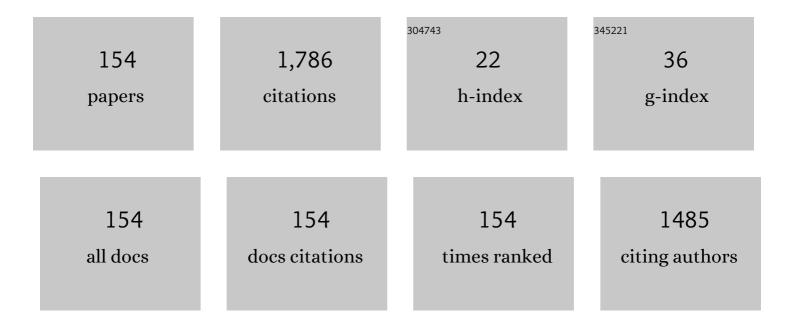
Carmen Vazquez

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9524663/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Modelling and electro-optical testing of suspended particle devices. Solar Energy Materials and Solar Cells, 2008, 92, 1483-1487.	6.2	117
2	Cannabinoid CB2 receptors in the mouse brain: relevance for Alzheimer's disease. Journal of Neuroinflammation, 2018, 15, 158.	7.2	98
3	A Temperature Sensor Based on a Polymer Optical Fiber Macro-Bend. Sensors, 2013, 13, 13076-13089.	3.8	72
4	βâ^'Amyloid exacerbates inflammation in astrocytes lacking fatty acid amide hydrolase through a mechanism involving PPARâ€Î±, PPARâ€Î³ and TRPV1, but not CB ₁ or CB ₂ receptors. British Journal of Pharmacology, 2012, 166, 1474-1489.	5.4	65
5	Multi-sensor system using plastic optical fibers for intrinsically safe level measurements. Sensors and Actuators A: Physical, 2004, 116, 22-32.	4.1	64
6	Optically Powered Radio-Over-Fiber Systems in Support of 5G Cellular Networks and IoT. Journal of Lightwave Technology, 2021, 39, 4262-4269.	4.6	50
7	Two-Color Pyrometer for Process Temperature Measurement During Machining. Journal of Lightwave Technology, 2016, 34, 1380-1386.	4.6	47
8	Remote Optical Powering Using Fiber Optics in Hazardous Environments. Journal of Lightwave Technology, 2018, 36, 748-754.	4.6	46
9	A Self-Referencing Intensity Based Polymer Optical Fiber Sensor for Liquid Detection. Sensors, 2009, 9, 6446-6455.	3.8	44
10	Temperature Measurement and Numerical Prediction in Machining Inconel 718. Sensors, 2017, 17, 1531.	3.8	41
11	Polymer Optical Fiber Temperature Sensor With Dual-Wavelength Compensation of Power Fluctuations. Journal of Lightwave Technology, 2015, 33, 2716-2723.	4.6	40
12	Amplified fiber-optic recirculating delay lines. Journal of Lightwave Technology, 1994, 12, 294-305.	4.6	38
13	Beaming power: Photovoltaic laser power converters for power-by-light. Joule, 2022, 6, 340-368.	24.0	36
14	Multicore Fiber Scenarios Supporting Power Over Fiber in Radio Over Fiber Systems. IEEE Access, 2019, 7, 158409-158418.	4.2	35
15	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
16	Use of a Novel Fiber Optical Strain Sensor for Monitoring the Vertical Deflection of an Aircraft Flap. IEEE Sensors Journal, 2009, 9, 1219-1225.	4.7	32
17	Endocannabinoid regulation of amyloid-induced neuroinflammation. Neurobiology of Aging, 2015, 36, 3008-3019.	3.1	29
18	Smart Remote Nodes Fed by Power Over Fiber in Internet of Things Applications. IEEE Sensors Journal, 2019, 19, 7328-7334.	4.7	29

#	Article	IF	CITATIONS
19	Maximum entropy estimation of the bubble size distribution in fluidized beds. Chemical Engineering Science, 2009, 64, 2307-2319.	3.8	27
20	SI-POF Supporting Power-Over-Fiber in Multi-Gbit/s Transmission for In-Home Networks. Journal of Lightwave Technology, 2021, 39, 112-121.	4.6	26
21	CWDM self-referencing sensor network based on ring resonators in reflective configuration. Optics Express, 2006, 14, 4601.	3.4	24
22	Tunable optical filters using compound ring resonators for DWDM. IEEE Photonics Technology Letters, 2003, 15, 1085-1087.	2.5	23
23	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
24	Coarse WDM networking of self-referenced fiber-optic intensity sensors with reconfigurable characteristics. Optics Express, 2010, 18, 4396.	3.4	22
25	Photonics in switching: enabling technologies and subsystem design. Journal of Optical Networking, 2009, 8, 404.	2.5	21
26	Radio-Frequency Self-Referencing Technique With Enhanced Sensitivity for Coarse WDM Fiber Optic Intensity Sensors. Journal of Lightwave Technology, 2009, 27, 475-482.	4.6	21
27	Broadband 1×2 polymer optical fiber switches using nematic liquid crystals. Optics Communications, 2003, 224, 57-62.	2.1	20
28	Sagnac loop in ring resonators for tunable optical filters. Journal of Lightwave Technology, 2005, 23, 2555-2567.	4.6	20
29	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
30	Power-over-fiber in a 10  km long multicore fiber link within a 5G fronthaul scenario. Optics Letters, 2021, 46, 5348.	3.3	19
31	Design and tolerance analysis of a router with an amplified resonator and Bragg gratings. Applied Optics, 2000, 39, 1934.	2.1	18
32	Dual-core photonic crystal fibers for tunable polarization mode dispersion compensation. Optics Express, 2011, 19, 21680.	3.4	18
33	Efficient Multiplexer/Demultiplexer for Visible WDM Transmission over SI-POF Technology. Journal of Lightwave Technology, 2015, 33, 3711-3718.	4.6	18
34	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
35	Fiber-Optic Pyrometer with Optically Powered Switch for Temperature Measurements. Sensors, 2018, 18, 483.	3.8	18
36	Power Over Fiber in C-RAN With Low Power Sleep Mode Remote Nodes Using SMF. Journal of Lightwave Technology, 2021, 39, 4951-4957.	4.6	18

#	Article	IF	CITATIONS
37	A Self-Referenced Optical Intensity Sensor Network Using POFBGs for Biomedical Applications. Sensors, 2014, 14, 24029-24045.	3.8	15
38	Optically Feeding 1.75 W With 100 m MMF in Efficient C-RAN Front-Hauls With Sleep Modes. Journal of Lightwave Technology, 2021, 39, 7948-7955.	4.6	15
39	Self-Referencing Fiber-Optic Intensity Sensors Using Ring Resonators and Fiber Bragg Gratings. IEEE Photonics Technology Letters, 2006, 18, 2374-2376.	2.5	14
40	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
41	Remote Interrogation of WDM Fiber-Optic Intensity Sensors Deploying Delay Lines in the Virtual Domain. Sensors, 2013, 13, 5870-5880.	3.8	14
42	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
43	SDN-Based Multi-Core Power-Over-Fiber (PoF) System for 5G Fronthaul: Towards PoF Pooling. , 2018, , .		14
44	Fast and Localized Temperature Measurements During Simulated Earthquakes in Carbonate Rocks. Geophysical Research Letters, 2021, 48, e2020GL091856.	4.0	14
45	Reconfigurable optical multiplexer based on liquid crystals for polymer optical fiber networks. Opto-electronics Review, 2006, 14, .	2.4	13
46	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
47	Three-dimensional method for simulation of multimode interference couplers. Journal of Lightwave Technology, 1995, 13, 2296-2299.	4.6	12
48	Optical router for optical fiber sensor networks based on a liquid crystal cell. IEEE Sensors Journal, 2003, 3, 513-518.	4.7	12
49	Electrical FIR Filter With Optical Coefficients for Self-Referencing WDM Intensity Sensors. IEEE Photonics Technology Letters, 2008, 20, 45-47.	2.5	12
50	Experiments on Shared- and Dedicated- Power over Fiber Scenarios in Multi-core Fibers. , 2019, , .		12
51	Analysis of double-parallel amplified recirculating optical-delay lines. Applied Optics, 1994, 33, 1015.	2.1	11
52	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
53	An integrated view on monitoring and compensation for dynamic optical networks: from management to physical layer. Photonic Network Communications, 2009, 18, 191-210.	2.7	9
54	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

#	Article	IF	CITATIONS
55	A Polymer Optical Fiber Fuel Level Sensor: Application to Paramotoring and Powered Paragliding. Sensors, 2012, 12, 6186-6197.	3.8	9
56	Electrical Model for Thresholdless Antiferroelectric Liquid Crystal Cells. Ferroelectrics, 2002, 271, 149-154.	0.6	8
57	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
58	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
59	Optical Fiber Pyrometer Designs for Temperature Measurements Depending on Object Size. Sensors, 2021, 21, 646.	3.8	8
60	Tunable ring resonator filter for OFDM transmission systems. Microwave and Optical Technology Letters, 1995, 8, 321-323.	1.4	7
61	Synthesis of Optical Filters Using Sagnac Interferometer in Ring Resonator. IEEE Photonics Technology Letters, 2007, 19, 1877-1879.	2.5	7
62	Tunable, narrow-band, grating-assisted microring reflectors. Optics Communications, 2008, 281, 4910-4916.	2.1	7
63	Reconfigurable 1×2 wavelength selective switch using high birefringence nematic liquid crystals. Applied Optics, 2012, 51, 5960.	1.8	7
64	Optical reconfigurable demultiplexer based on Bragg grating assisted ring resonators. Optics Express, 2014, 22, 19156.	3.4	7
65	Integration of power over fiber on RoF systems in different scenarios. Proceedings of SPIE, 2017, , .	0.8	7
66	Self-referenced optical networks for remote interrogation of quasi-distributed fiber-optic intensity sensors. Optical Fiber Technology, 2020, 58, 102291.	2.7	7
67	High Spatial Resolution Optical Fiber Two Color Pyrometer With Fast Response. IEEE Sensors Journal, 2021, 21, 2942-2950.	4.7	7
68	Tap-and-2-Split Switch Design Based on Integrated Optics for Light-Tree Routing in WDM Networks. Journal of Lightwave Technology, 2009, 27, 2506-2517.	4.6	6
69	Synthesis of optical filters using microring resonators with ultra-large FSR. Optics Express, 2010, 18, 25936.	3.4	6
70	Advanced multifunctional optical switch for multimode optical fiber networks. Optics Communications, 2012, 285, 2802-2808.	2.1	6
71	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
72	WDM-PON Preventive Optical Monitoring System with Colourless Reflectors. , 2016, , .		6

WDM-PON Preventive Optical Monitoring System with Colourless Reflectors. , 2016, , . 72

#	Article	IF	CITATIONS
73	Switches and tunable filters based on ring resonators and liquid crystals. , 2007, , .		5
74	New Fiber Supervision Technique for Passive Optical Networks Supporting Mobile Services. IEEE Photonics Technology Letters, 2016, 28, 501-504.	2.5	5
75	Sensing Applications in Aircrafts Using Polymer Optical Fibres. Sensors, 2021, 21, 3605.	3.8	5
76	Polymer Optical Fiber Intensity-Based Sensor for Liquid-Level Measurements in Volumetric Flasks for Industrial Application. , 2012, 2012, 1-7.		5
77	Power-over-Fiber Impact on 5G NR Transmission in Standard Single Mode Fibers. , 2021, , .		5
78	Multimode interference filter to solve degradation on coupler common-mode rejection. , 0, , .		4
79	Performance parameters and applications of a modified amplified recirculating delay line. Fiber and Integrated Optics, 1995, 14, 347-358.	2.5	4
80	Mode filter using multimode interference principles: Design and tolerance analysis for accessing waveguides supporting two guided modes. Microwave and Optical Technology Letters, 2000, 26, 140-142.	1.4	4
81	Optoelectronic multiplexer for digital data processing based on lipid crystal pixels and optical fiber elements. Opto-electronics Review, 2007, 15, .	2.4	4
82	Photoâ€Thermoâ€Mechanical Behaviour Under Quasiâ€Static Tensile Conditions of a PMMAâ€Core Optical Fibre. Strain, 2016, 52, 3-13.	2.4	4
83	Power over Fiber in Radio over Fiber Systems in 5G Scenarios. , 2019, , .		4
84	The Role of Power-over-Fiber in C-RAN Fronthauling Towards 5G. , 2020, , .		4
85	Optimized Power-over-Fiber System to Remotely Feed Smart Nodes for Low-Power Consumption Applications. , 2021, , .		4
86	Polymer Optical Fiber Plantar Pressure Sensors: Design and Validation. Sensors, 2022, 22, 3883.	3.8	4
87	Fabry–Perot method for the characterization of integrated optical directional couplers. Applied Optics, 1995, 34, 6874.	2.1	3
88	Accessing guide first-order mode influence and optimize tolerances in multimode interference couplers. , 1998, 3491, 386.		3
89	Novel tunable optical filter employing a fiber loop mirror for synthesis applications in WDM. , 0, , .		3

3

#	Article	IF	CITATIONS
91	An Analogue–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
92	Applications of recirculating optical configurations on filters and lasers. , 2005, , .		3
93	Ring resonator with an internal Sagnac loop for dispersion compensation in DWDM backbone networks. , 2007, , .		3
94	1 × 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
95	Monitoring systems and remote powering for next generation broadband Access Networks. , 2017, , .		3
96	SDN/NFV 5G Fronthaul Networks Integrating Analog/Digital RoF, Optical Beamforming, Power over Fiber and Optical SDM Technologies. , 2019, , .		3
97	Electrical Model for Thresholdless Antiferroelectric Liquid Crystal Cells. Ferroelectrics, 2002, 271, 149-154.	0.6	3
98	Friction during earthquakes: 25 years of experimental studies. IOP Conference Series: Earth and Environmental Science, 2021, 861, 052032.	0.3	3
99	<title>Stabilization in an optical fiber interferometer using a semiconductor laser</title> . , 1997, 3099, 354.		2
100	New optical filter employing multireflection mirror to provide design flexibility for WDMA. , 0, , .		2
101	Spatial distribution of the electric field in liquid crystal dispersions devices by using a finite-element method. Journal of Molecular Liquids, 2003, 108, 107-117.	4.9	2
102	A plastic fiber optic liquid level sensor. , 2004, , .		2
103	Self-referencing fibre-optic intensity strain sensors. , 2005, 5855, 767.		2
104	Power-Cost-Effective Node Architecture for Light-Tree Routing in WDM Networks. , 2008, , .		2
105	Experimental analysis of temperature dependence in multimode optical fiber links for radio-over-fiber applications. , 2009, , .		2
106	Self-referenced temperature sensor based on a polymer optical fiber macro-bend. , 2014, , .		2
107	Multimode fibers in millimeter-wave evolution for 5G cellular networks. Proceedings of SPIE, 2016, , .	0.8	2
108	Power, sensitivity, and response time optimization in TDM self-reference intensity sensor networks with ring resonators. Optics Express, 2018, 26, 31264.	3.4	2

Carmen Vazquez

#	Article	IF	CITATIONS
109	Self-Referencing Technique in Reflection Mode for Fibre-Optic Intensity Sensors Using Ring Resonators. , 2006, , .		2
110	Optical power delivery for feeding remote sensors in health and safety applications. , 2018, , .		2
111	Amplified Recirculating Delay Lines as Fiber-optic Decoders in TV Systems. Optical Fiber Technology, 1995, 1, 369-372.	2.7	1
112	Cost-effective microcontrolled optoelectronic portable color identifier for visual impaired persons. Microwave and Optical Technology Letters, 2002, 35, 309-310.	1.4	1
113	Self-referencing intensity-encoded fibre optic sensors using radio-frequency ring resonators. , 2005, , \cdot		1
114	Development of a 2x2 optical switch for plastic optical fiber using liquid crystal cells. , 2005, , .		1
115	Self-referencing techniques in photonics sensors and multiplexing. , 2007, , .		1
116	Interrogation of remote intensity-based fiber-optic sensors deploying delay lines in the virtual domain. Proceedings of SPIE, 2012, , .	0.8	1
117	Temperature sensor based on fiber optic pyrometer in material removal processes. , 2012, , .		1
118	Comparison of three different configurations of an optical sensor for tip-clearance measurements in turbines. Proceedings of SPIE, 2014, , .	0.8	1
119	Effects of elongation on polymer optical fiber power losses for sensing purposes. Proceedings of SPIE, 2014, , .	0.8	1
120	Tolerance analysis for efficient MMI devices in silicon photonics. , 2014, , .		1
121	Broadband 1×2 liquid crystal router with low thermal dependence for polymer optical fiber networks. Optics Communications, 2014, 333, 281-287.	2.1	1
122	Recent Advances in Wavelength-Division-Multiplexing Plastic Optical Fiber Technologies. , 2015, , .		1
123	Visible CWDM system design for Multi-Gbit/s transmission over SI-POF. Proceedings of SPIE, 2015, , .	0.8	1
124	Optical tip clearance measurements for rotating disk characterization. , 2015, , .		1
125	Optical-fiber pyrometer positioning accuracy analysis. , 2016, , .		1
126	Temperature sensing using optical fibers in harsh environments. , 2017, , .		1

#	Article	IF	CITATIONS
127	Very Localized Temperature Measurements and Applications Using Optical Fiber Pyrometers. , 2019, , .		1
128	Unobtrusive monitoring of heart rate using a cost-effective speckle-based SI-POF remote sensor. Proceedings of SPIE, 2017, , .	0.8	1
129	Wearable POF-based heart-rate monitor. , 2019, , .		1
130	High spatial resolution optical fiber thermometers for applications in harsh environments. , 2020, , .		1
131	Optical Amplified Recirculating Delay Lines Transient Response Effect on Hybrid Fiber Buses. Optical Fiber Technology, 1997, 3, 65-71.	2.7	Ο
132	Electro-optical simulation of a-Si thin-film-transistor liquid-crystal display pixels. Microwave and Optical Technology Letters, 2001, 29, 198-199.	1.4	0
133	Measurements on passive tunable optical filters for DWDM. , 0, , .		Ο
134	Displays and Photonics Application Group Activities. Fiber and Integrated Optics, 2004, 23, 231-247.	2.5	0
135	Characterization protocol to evaluate chiral smectic liquid crystals for high-end display applications. Optics Express, 2004, 12, 1205.	3.4	0
136	Variable optical attenuator made by using new electrochromic devices. , 2005, , .		0
137	Variable optical attenuator for perfluorinated gradual index polymer optical fiber using a polymer dispersed liquid crystal cell. , 2005, , .		Ο
138	Enhanced instrumentation system to characterize the electric behavior of AFLC displays. , 2007, , .		0
139	Tunable feedback resonator based on a nematic liquid crystal cell as variable capacitance. Proceedings of SPIE, 2007, , .	0.8	Ο
140	Ring Resonators with Sagnac Loops for Photonic Processing in DWDM Backbone Networks. , 2007, , .		0
141	Optical Switch for Instrumentation Based on Liquid Crystals. , 2007, , .		Ο
142	Tunable, grating-assisted single-ring laser mirrors. , 2007, , .		0
143	Self-referencing model for electro-optical WDM fiber-optic intensity-based sensor network. , 2009, , .		Ο
144	Temperature impairment characterization in radio-over-multimode fiber systems. Proceedings of SPIE, 2012, , .	0.8	0

#	Article	IF	CITATIONS
145	Low power consumption silicon photonics tuning filters based on compound microring resonators. Proceedings of SPIE, 2013, , .	0.8	0
146	WDM sensor network approach: Bridging the gap towards POF-based photonic sensing. , 2014, , .		0
147	Spectral method for fast measurement of twisted nematic liquid crystal cell parameters. Applied Optics, 2014, 53, 5230.	1.8	0
148	Tip timing measurements for structural health monitoring in the first stage of the compressor of an aircraft engine. , 2016, , .		0
149	Dual-wavelength speckle-based SI-POF sensor for frequency detection and localization of remote vibrations. , 2016, , .		0
150	Effect of the Fiber's Core Size on a Two Color Pyrometer. , 2020, , .		0
151	Cleaving of PMMA Microstructured Polymer Optical Fibers with 3- and 4-Ring Hexagonal Cladding Structures. Polymers, 2021, 13, 1366.	4.5	0
152	Signal Processing, Management and Monitoring in Transmission Networks. Signals and Communication Technology, 2011, , 53-122.	0.5	0
153	Experimental demonstration of advanced service management in SDN/NFV fronthaul. , 2019, , .		0
154	Response time and sensitivity in TDM fiber optic sensor network. , 2019, , .		0