

# Paulo Afonso AndrÃ©

## List of Publications by Year in descending order

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415  
papers

5,590  
citations

61984

43  
h-index

123424

61  
g-index

418  
all docs

418  
docs citations

418  
times ranked

4848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescent solar concentrators: challenges for lanthanide-based organic-inorganic hybrid materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5580-5596.	10.3	150
2	Optical Fiber Accelerometer System for Structural Dynamic Monitoring. <i>IEEE Sensors Journal</i> , 2009, 9, 1347-1354.	4.7	126
3	Optical Fiber Magnetic Field Sensors Based on Magnetic Fluid: A Review. <i>Sensors</i> , 2018, 18, 4325.	3.8	115
4	Liquid Level Measurement Based on FBG-Embedded Diaphragms With Temperature Compensation. <i>IEEE Sensors Journal</i> , 2018, 18, 193-200.	4.7	106
5	Optical Fiber Relative Humidity Sensor Based on a FBG with a Di-Ureasil Coating. <i>Sensors</i> , 2012, 12, 8847-8860.	3.8	105
6	Engineering highly efficient Eu(III)-based tri-ureasil hybrids toward luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7339.	10.3	95
7	Polymer optical fiber sensors in human life safety. <i>Optical Fiber Technology</i> , 2017, 36, 144-154.	2.7	91
8	Chromatic dispersion fluctuations in optical fibers due to temperature and its effects in high-speed optical communication systems. <i>Optics Communications</i> , 2005, 246, 303-311.	2.1	85
9	Modulating the Photoluminescence of Bridged Silsesquioxanes Incorporating Eu <sup>3+</sup> -Complexed 2,2'-Diureido-2,2'-bipyridine Isomers: Application for Luminescent Solar Concentrators. <i>Chemistry of Materials</i> , 2011, 23, 4773-4782.	6.7	82
10	Eu <sup>3+</sup> -Based Bridged Silsesquioxanes for Transparent Luminescent Solar Concentrators. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8770-8778.	8.0	78
11	Fidelity and Mutational Spectrum of PfuDNA Polymerase on a Human Mitochondrial DNA Sequence. <i>Genome Research</i> , 1997, 7, 843-852.	5.5	76
12	Organic-inorganic hybrid materials towards passive and active architectures for the next generation of optical networks. <i>Optical Materials</i> , 2010, 32, 1397-1409.	3.6	76
13	Insole Optical Fiber Sensor Architecture for Remote Gait Analysis: An e-Health Solution. <i>IEEE Internet of Things Journal</i> , 2019, 6, 207-214.	8.7	76
14	Uniaxial fiber Bragg grating accelerometer system with temperature and cross axis insensitivity. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011, 44, 55-59.	5.0	75
15	Optical fiber sensors for static and dynamic health monitoring of civil engineering infrastructures: Abode wall case study. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012, 45, 1695-1705.	5.0	75
16	POFBG-Embedded Cork Insole for Plantar Pressure Monitoring. <i>Sensors</i> , 2017, 17, 2924.	3.8	75
17	Biaxial Optical Accelerometer and High-Angle Inclinometer With Temperature and Cross-Axis Insensitivity. <i>IEEE Sensors Journal</i> , 2012, 12, 2399-2406.	4.7	74
18	High-efficiency luminescent solar concentrators for flexible waveguiding photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2015, 138, 51-57.	6.2	74

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19	Luminescence Thermometry on the Route of the Mobile-Based Internet of Things (IoT): How Smart QR Codes Make It Real. <i>Advanced Science</i> , 2019, 6, 1900950.	11.2	74
20	Structural Health Monitoring of the Church of Santa Casa da Misericórdia of Aveiro Using FBG Sensors. <i>IEEE Sensors Journal</i> , 2008, 8, 1236-1242.	4.7	69
21	A cost-effective edge-filter based FBG interrogator using catastrophic fuse effect micro-cavity interferometers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 124, 486-493.	5.0	69
22	Polymer optical fiber Bragg grating inscription with a single UV laser pulse. <i>Optics Express</i> , 2017, 25, 9028.	3.4	68
23	Optical Fiber Sensing for Sub-Millimeter Liquid-Level Monitoring: A Review. <i>IEEE Sensors Journal</i> , 2019, 19, 7179-7191.	4.7	67
24	Optical Fiber Microcavity Strain Sensors Produced by the Catastrophic Fuse Effect. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 78-81.	2.5	66
25	Characterization of a new polymer optical fiber with enhanced sensing capabilities using a Bragg grating. <i>Optics Letters</i> , 2018, 43, 4799.	3.3	66
26	Photodynamical mass determination of the multiplanetary system K2-19. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 4267-4276.	4.4	64
27	High-Performance Near-Infrared Luminescent Solar Concentrators. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12540-12546.	8.0	64
28	Fast Bragg Grating Inscription in PMMA Polymer Optical Fibres: Impact of Thermal Pre-Treatment of Preforms. <i>Sensors</i> , 2017, 17, 891.	3.8	62
29	Low-Cost Interrogation Technique for Dynamic Measurements with FBG-Based Devices. <i>Sensors</i> , 2017, 17, 2414.	3.8	62
30	Mutational spectrometry without phenotypic selection: human mitochondrial DNA. <i>Nucleic Acids Research</i> , 1997, 25, 685-693.	14.5	60
31	Corrosion Resistant FBG-Based Quasi-Distributed Sensor for Crude Oil Tank Dynamic Temperature Profile Monitoring. <i>Sensors</i> , 2015, 15, 30693-30703.	3.8	60
32	Advances on Polymer Optical Fiber Gratings Using a KrF Pulsed Laser System Operating at 248 nm. <i>Fibers</i> , 2018, 6, 13.	4.0	59
33	Cost-effective optical fiber pressure sensor based on intrinsic Fabry-Perot interferometric micro-cavities. <i>Optical Fiber Technology</i> , 2018, 42, 56-62.	2.7	58
34	Sensing Structure Based on Surface Plasmon Resonance in Chemically Etched Single Mode Optical Fibres. <i>Plasmonics</i> , 2015, 10, 319-327.	3.4	56
35	Insole optical fiber Bragg grating sensors network for dynamic vertical force monitoring. <i>Journal of Biomedical Optics</i> , 2017, 22, 091507.	2.6	55
36	Chirped Bragg Gratings in PMMA Step-Index Polymer Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 500-503.	2.5	55

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37	Scale up the collection area of luminescent solar concentrators towards metre-length flexible waveguiding photovoltaics. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 1178-1193.	8.1	51
38	Relative humidity sensing using micro-cavities produced by the catastrophic fuse effect. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	51
39	PM2.5 and PM10: The influence of sugarcane burning on potential cancer risk. <i>Atmospheric Environment</i> , 2010, 44, 5133-5138.	4.1	50
40	Photonic-on-a-chip: a thermal actuated Mach-Zehnder interferometer and a molecular thermometer based on a single diureasil organic-inorganic hybrid. <i>Laser and Photonics Reviews</i> , 2013, 7, 1027-1035.	8.7	49
41	Global overview on advances in structural health monitoring platforms. <i>Journal of Civil Structural Health Monitoring</i> , 2016, 6, 461-475.	3.9	49
42	Liquid level gauge based in plastic optical fiber. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 66, 238-243.	5.0	48
43	Gait Shear and Plantar Pressure Monitoring: A Non-Invasive OFS Based Solution for e-Health Architectures. <i>Sensors</i> , 2018, 18, 1334.	3.8	45
44	Photopatternable Diureasil-Zirconium Oxocluster Organic-Inorganic Hybrids As Cost Effective Integrated Optical Substrates. <i>Chemistry of Materials</i> , 2008, 20, 3696-3705.	6.7	44
45	K2-29 b/WASP-152 b: AN ALIGNED AND INFLATED HOT JUPITER IN A YOUNG VISUAL BINARY. <i>Astrophysical Journal</i> , 2016, 824, 55.	4.5	44
46	Elastic constant measurement for standard and photosensitive single mode optical fibres. <i>Microwave and Optical Technology Letters</i> , 2008, 50, 2467-2469.	1.4	41
47	Sustainable luminescent solar concentrators based on organic-inorganic hybrids modified with chlorophyll. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8712-8723.	10.3	38
48	Transparent Luminescent Solar Concentrators Using Ln <sup>3+</sup> -Based Ionosilicas Towards Photovoltaic Windows. <i>Energies</i> , 2019, 12, 451.	3.1	37
49	Efficient use of hybrid Genetic Algorithms in the gain optimization of distributed Raman amplifiers. <i>Optics Express</i> , 2007, 15, 17520.	3.4	35
50	Luminescent coatings from bipyridine-based bridged silsesquioxanes containing Eu <sup>3+</sup> and Tb <sup>3+</sup> salts. <i>Journal of Materials Chemistry</i> , 2012, 22, 13279.	6.7	35
51	Theoretical analysis of all-optical clocked D flip-flop using a single SOA assisted symmetric MZI. <i>Optics Communications</i> , 2012, 285, 2266-2275.	2.1	35
52	Solar spectral conversion based on plastic films of lanthanide-doped ionosilicas for photovoltaics: Down-shifting layers and luminescent solar concentrators. <i>Journal of Rare Earths</i> , 2020, 38, 531-538.	4.8	35
53	Plastic Optical Fiber Sensor for Noninvasive Arterial Pulse Waveform Monitoring. <i>IEEE Sensors Journal</i> , 2015, 15, 14-18.	4.7	34
54	Multi-objective genetic algorithm applied to spectroscopic ellipsometry of organic-inorganic hybrid planar waveguides. <i>Optics Express</i> , 2010, 18, 16580.	3.4	32

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55	Large-Area Tunable Visible-to-Near-Infrared Luminescent Solar Concentrators. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800002.	5.3	32
56	Super modules-based active QR codes for smart trackability and IoT: a responsive-banknotes case study. <i>Npj Flexible Electronics</i> , 2020, 4, .	10.7	32
57	Monitoring of the concrete curing process using plastic optical fibers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012, 45, 556-560.	5.0	31
58	Feasibility studies of Bragg probe for noninvasive carotid pulse waveform assessment. <i>Journal of Biomedical Optics</i> , 2013, 18, 017006.	2.6	31
59	Liquid Hydrostatic Pressure Optical Sensor Based on Micro-Cavity Produced by the Catastrophic Fuse Effect. <i>IEEE Sensors Journal</i> , 2015, 15, 5654-5658.	4.7	31
60	Intensity-Encoded Polymer Optical Fiber Accelerometer. <i>IEEE Sensors Journal</i> , 2013, 13, 1716-1720.	4.7	30
61	[INVITED] Luminescent QR codes for smart labelling and sensing. <i>Optics and Laser Technology</i> , 2018, 101, 304-311.	4.6	30
62	Sustainable Liquid Luminescent Solar Concentrators. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800134.	5.3	30
63	Groundwater level monitoring using a plastic optical fiber. <i>Sensors and Actuators A: Physical</i> , 2016, 240, 138-144.	4.1	29
64	Inscription of Bragg gratings in undoped PMMA mPOF with Nd:YAG laser at 266-nm wavelength. <i>Optics Express</i> , 2019, 27, 38039.	3.4	29
65	Detection of Fiber Fuse Effect Using FBC Sensors. <i>IEEE Sensors Journal</i> , 2011, 11, 1390-1394.	4.7	28
66	Observation of fuse effect discharge zone nonlinear velocity regime in erbium-doped fibres. <i>Electronics Letters</i> , 2012, 48, 1295.	1.0	28
67	mOptical Sensing for the Internet of Things: A Smartphone-Controlled Platform for Temperature Monitoring. <i>Advanced Photonics Research</i> , 2021, 2, 2000211.	3.6	28
68	Single Mach-Zehnder interferometer based optical Boolean logic gates. <i>Applied Optics</i> , 2012, 51, 8693.	1.8	26
69	Strain, temperature, moisture, and transverse force sensing using fused polymer optical fibers. <i>Optics Express</i> , 2018, 26, 12939.	3.4	26
70	Wearable Devices for Remote Physical Rehabilitation Using a Fabry-Perot Optical Fiber Sensor: Ankle Joint Kinematic. <i>IEEE Access</i> , 2020, 8, 109866-109875.	4.2	26
71	All-Optical Burst-Mode Power Equalizer Based on Cascaded SOAs for 10-Gb/s EPONs. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 2078-2080.	2.5	24
72	Structural Health Monitoring Suitable for Airborne Components Using the Speckle Pattern in Plastic Optical Fibers. <i>IEEE Sensors Journal</i> , 2017, 17, 4791-4796.	4.7	24

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73	Integrated Optical Mach-Zehnder Interferometer Based on Organic-Inorganic Hybrids for Photonics-on-a-Chip Biosensing Applications. <i>Sensors</i> , 2018, 18, 840.	3.8	24
74	Synchronous Temperature and Magnetic Field Dual-Sensing by Luminescence in a Dysprosium Single-Molecule Magnet. <i>Advanced Optical Materials</i> , 2021, 9, 2101495.	7.3	24
75	Customized Luminescent Multiplexed Quick-Response Codes as Reliable Temperature Mobile Optical Sensors for eHealth and Internet of Things. <i>Advanced Photonics Research</i> , 2022, 3, 2100206.	3.6	24
76	Optical sensors for bond-slip characterization and monitoring of RC structures. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 332-339.	4.1	23
77	Poluição da queima de cana e sintomas respiratórios em escolares de Monte Aprazível, SP. <i>Revista De Saude Publica</i> , 2011, 45, 878-886.	1.7	22
78	Dynamic Structural Health Monitoring of Slender Structures Using Optical Sensors. <i>Sensors</i> , 2012, 12, 6629-6644.	3.8	22
79	Dynamic monitoring and numerical modelling of communication towers with FBC based accelerometers. <i>Journal of Constructional Steel Research</i> , 2012, 74, 58-62.	3.9	22
80	Cost effective refractive index sensor based on optical fiber micro cavities produced by the catastrophic fuse effect. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 77, 265-268.	5.0	22
81	Design and characterization of a curvature sensor using fused polymer optical fibers. <i>Optics Letters</i> , 2018, 43, 2539.	3.3	22
82	Optical fiber sensors for central arterial pressure monitoring. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	21
83	High Rate Dynamic Monitoring with Fabry-Perot Interferometric Sensors: An Alternative Interrogation Technique Targeting Biomedical Applications. <i>Sensors</i> , 2019, 19, 4744.	3.8	21
84	Environmentally friendly luminescent solar concentrators based on an optically efficient and stable green fluorescent protein. <i>Green Chemistry</i> , 2020, 22, 4943-4951.	9.0	21
85	Microwave dielectric properties of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles ferrites. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 1341-1343.	1.4	19
86	Waveguides and gratings fabrication in zirconium-based organic/inorganic hybrids. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 48, 80-85.	2.4	19
87	Simple measurement of surface free energy using a web cam. <i>Revista Brasileira De Ensino De Fisica</i> , 2012, 34, .	0.2	19
88	Colour multiplexing of quick-response (QR) codes. <i>Electronics Letters</i> , 2014, 50, 1828-1830.	1.0	19
89	Optical signal processing for data error detection and correction using SiCH technology. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 1393-1400.	0.8	19
90	Central arterial pulse waveform acquisition with a portable pen-like optical fiber sensor. <i>Blood Pressure Monitoring</i> , 2015, 20, 43-46.	0.8	19

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91	Energy-Aware Wearable E-Health Architecture Using Optical FBG Sensors for Knee Kinematic Monitoring. , 2018, , .		19
92	Microwave dielectric properties of polybutylene terephthalate (PBT) with carbon black particles. Microwave and Optical Technology Letters, 2005, 46, 61-63.	1.4	18
93	Radiation from an equilibrium CO <sub>2</sub> â€“N <sub>2</sub> plasma in the [250â€“850â€“nm] spectral region: I. Experiment. Plasma Sources Science and Technology, 2008, 17, 035012.	3.1	18
94	Traveling Solutions of the Fuse Effect in Optical Fibers. Journal of Lightwave Technology, 2011, 29, 109-114.	4.6	18
95	Optical Sensors Based on Fiber Bragg Gratings for Structural Health Monitoring. Lecture Notes in Electrical Engineering, 2011, , 253-295.	0.4	18
96	Simultaneous measurement of the nonlinear refractive index and chromatic dispersion of optical fibers by four-wave mixing. Microwave and Optical Technology Letters, 2002, 34, 305-307.	1.4	17
97	Performance Monitoring in Optical Networks Using Asynchronously Acquired Samples With Nonideal Sampling Systems and Intersymbol Interference. Journal of Lightwave Technology, 2004, 22, 2452-2459.	4.6	17
98	Monitoring of sea bed level changes in nearshore regions using fiber optic sensors. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1527-1533.	5.0	17
99	Dynamic structural health monitoring of a civil engineering structure with a POF accelerometer. Sensor Review, 2014, 34, 36-41.	1.8	17
100	Noise and measurement errors in a practical two-state quantum bit commitment protocol. Physical Review A, 2014, 89, .	2.5	17
101	Chirped POF Bragg grating production utilizing UV cure adhesive coating for multiparameter sensing. Optical Fiber Technology, 2021, 65, 102593.	2.7	17
102	Radiation from an equilibrium CO <sub>2</sub> â€“N <sub>2</sub> plasma in the [250â€“850â€“nm] spectral region: II. Spectral modelling. Plasma Sources Science and Technology, 2008, 17, 035013.	3.1	16
103	Optical FBG Sensors for Static Structural Health Monitoring. Procedia Engineering, 2011, 14, 1564-1571.	1.2	16
104	Fabrication of low-cost thermo-optic variable wave plate based on waveguides patterned on di-ureasil hybrids. Optics Express, 2014, 22, 27159.	3.4	16
105	Flexible Optical Amplifier for Visible-Light Communications Based on Organicâ€“Inorganic Hybrids. ACS Omega, 2018, 3, 13772-13781.	3.5	16
106	Polarization Mode Dispersion in High-Speed Optical Communication Systems. Fiber and Integrated Optics, 2005, 24, 261-285.	2.5	15
107	Thin film optimization design of organicâ€“inorganic hybrids for waveguide highâ€“rejection optical filters. Physica Status Solidi - Rapid Research Letters, 2011, 5, 280-282.	2.4	15
108	Dynamic mechanical analysis on fused polymer optical fibers: towards sensor applications. Optics Letters, 2018, 43, 1754.	3.3	15

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109	Low-Cost and High-Performance Optical Fiber-Based Sensor for Liquid Level Monitoring. IEEE Sensors Journal, 2019, 19, 4882-4888.	4.7	15
110	Comparison of the temperature dependence of different types of Bragg gratings. Microwave and Optical Technology Letters, 2005, 45, 305-307.	1.4	14
111	All-optical clocked D flip-flop memory using a hybrid integrated S-R latch. Microwave and Optical Technology Letters, 2011, 53, 1201-1204.	1.4	14
112	Automated technique to inscribe reproducible long-period gratings using a CO <sub>2</sub> laser splicer. Optics Letters, 2017, 42, 1994.	3.3	14
113	Bio-Based Solar Energy Harvesting for Onsite Mobile Optical Temperature Sensing in Smart Cities. Advanced Science, 2022, 9, e2104801.	11.2	14
114	IoT-F: A Long-Reach Fully Passive Low-Rate Upstream PHY for IoT over Fiber. Electronics (Switzerland), 2019, 8, 359.	3.1	13
115	All-optical synchronous S-R flip-flop based on active interferometric devices. Electronics Letters, 2010, 46, 709.	1.0	12
116	Improved thermal model for optical fibre coating owing to small bending diameter and high power signals. Electronics Letters, 2010, 46, 695.	1.0	12
117	Optical Fiber Technology for eHealthcare. , 2013, , 180-200.		12
118	Functionalization of atomic force microscope tips by dielectrophoretic assembly of Gd <sub>2</sub> O <sub>3</sub> nanorods. Nanotechnology, 2008, 19, 295702.	2.6	11
119	Evaluation of the Fuse Effect Propagation in Networks Infrastructures with Different Types of Fibers. , 2010, , .		11
120	Thin bonding wires temperature measurement using optical fiber sensors. Measurement: Journal of the International Measurement Confederation, 2011, 44, 554-558.	5.0	11
121	Enhanced sensitivity high temperature optical fiber FPI sensor created with the catastrophic fuse effect. Microwave and Optical Technology Letters, 2015, 57, 972-974.	1.4	11
122	Carotid distension waves acquired with a fiber sensor as an alternative to tonometry for central arterial systolic pressure assessment in young subjects. Measurement: Journal of the International Measurement Confederation, 2017, 95, 45-49.	5.0	11
123	Clinical evaluation of an optical fiber-based probe for the assessment of central arterial pulse waves. Hypertension Research, 2018, 41, 904-912.	2.7	11
124	Combined Bending and Torsion Sensing by Induced Birefringence in Distributed Bragg Reflector Laser. Journal of Lightwave Technology, 2019, 37, 861-867.	4.6	11
125	Flexible Blue-Light Fiber Amplifiers to Improve Signal Coverage in Advanced Lighting Communication Systems. Cell Reports Physical Science, 2020, 1, 100041.	5.6	11
126	Multi wavelength rational harmonic mode locked source for polarization division multiplexing based on a reflective semiconductor optical amplifier and Bragg grating written in a high birefringent fiber. Laser Physics Letters, 2004, 1, 613-616.	1.4	10



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127	Determination of Refractive Index Contrast and Surface Contraction in Waveguide Channels Using Multiobjective Genetic Algorithm Applied to Spectroscopic Ellipsometry. Journal of Lightwave Technology, 2011, 29, 2971-2978.	4.6	10
128	Threshold power of fiber fuse effect for different types of optical fiber. , 2011, , .		10
129	Continuous Control of Random Polarization Rotations for Quantum Communications. Journal of Lightwave Technology, 2016, , 1-1.	4.6	10
130	Implementation of a two-state quantum bit commitment protocol in optical fibers. Journal of Optics (United Kingdom), 2016, 18, 015202.	2.2	10
131	Non-Invasive Wearable Optical Sensors for Full Gait Analysis in E-Health Architecture. IEEE Wireless Communications, 2021, 28, 28-35.	9.0	10
132	Improved remote node configuration for passive ring-tree architectures. , 2008, , .		9
133	All-optical XOR based on integrated MZI-SOA with co- and counter-propagation scheme. , 2009, , .		9
134	UV laser photofabrication of waveguide couplers using self-€patterning organic-€inorganic hybrids. Microwave and Optical Technology Letters, 2011, 53, 2304-2307.	1.4	9
135	Long range energy transfer in graphene hybrid structures. Journal Physics D: Applied Physics, 2016, 49, 315102.	2.8	9
136	Wearable eHealth System for Physical Rehabilitation: Ankle Plantar-Dorsi-Flexion Monitoring. , 2019, , .		9
137	Lanthanides for the new generation of optical sensing and Internet of Things. Fundamental Theories of Physics, 2022, , 31-128.	0.3	9
138	Smart Optical Sensors for Internet of Things: Integration of Temperature Monitoring and Customized Security Physical Unclonable Functions. IEEE Access, 2022, 10, 24433-24443.	4.2	9
139	Environmental epidemiology applied to urban atmospheric pollution: a contribution from the Experimental Air Pollution Laboratory (LPAE). Cadernos De Saude Publica, 2000, 16, 619-628.	1.0	8
140	Improving Quality of Care Using a Diabetes Registry and Disease Management Services in an Integrated Delivery Network. Disease Management: DM, 2005, 8, 245-252.	1.0	8
141	Security issues in optical networks physical layer. , 2008, , .		8
142	Enhanced photoluminescence features of Eu <sup>3+</sup> -modified di-ureasil-zirconium oxocluster organic-€inorganic hybrids. Optical Materials, 2010, 32, 1587-1591.	3.6	8
143	Thermal Effects in Optical Fibres. , 2011, , .		8
144	Structural health monitoring of different geometry structures with optical fiber sensors. Photonic Sensors, 2012, 2, 357-365.	5.0	8

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145	Experimental Demonstration of Selective Core Coupling in Multicore Fibers of a 200 Gb/s DP-16QAM Signal. , 2016, , .		8
146	Experimental Demonstration of a 33.5-Gb/s OFDM-Based PON With Subcarrier Pre-Emphasis. IEEE Photonics Technology Letters, 2016, 28, 860-863.	2.5	8
147	Datacenter Thermal Monitoring Without Blind Spots: FBC-Based Quasi-Distributed Sensing. IEEE Sensors Journal, 2021, 21, 9869-9876.	4.7	8
148	Fabry-Perot-based approach for the measurement of complex permittivity of samples inserted in resonant cavities. Microwave and Optical Technology Letters, 2004, 43, 106-108.	1.4	7
149	Transmission Fiber Chromatic Dispersion Dependence on Temperature: Implications on 40 Gb/s Performance. ETRI Journal, 2006, 28, 257-259.	2.0	7
150	Experimental assessment of some Raman fiber amplifiers solutions for coarse wavelength division multiplexing applications. Photonic Network Communications, 2008, 16, 195-202.	2.7	7
151	Simulation of fiber fuse effect propagation. , 2009, , .		7
152	Monitorization of sea sand transport in coastal areas using optical fiber sensors. , 2009, , .		7
153	Optical filters and resonant cavities based on di-ureasil organica€“inorganic hybrids. Journal of Sol-Gel Science and Technology, 2011, 59, 475-479.	2.4	7
154	Four-wave mixing: Photon statistics and the impact on a co-propagating quantum signal. Optics Communications, 2012, 285, 2956-2960.	2.1	7
155	Effect of the Anodic Titania Layer Thickness on Electrodeposition of Zinc on Ti/TiO<sub>2</sub> from Deep Eutectic Solvent. Journal of the Electrochemical Society, 2017, 164, D88-D94.	2.9	7
156	<title>Extraction of laser rate equation parameters</title>. , 1999, , .		6
157	Simplified heat exchange model for semiconductor laser diodes thermal parameters extraction. Laser Physics Letters, 2005, 2, 525-528.	1.4	6
158	Study of Raman amplification with low cost incoherent pumps. Microwave and Optical Technology Letters, 2008, 50, 301-303.	1.4	6
159	Raman amplification impact in packet base networks. Microwave and Optical Technology Letters, 2008, 50, 3083-3085.	1.4	6
160	Impact of Self-Phase Modulation on In-Band Crosstalk Penalties. IEEE Photonics Technology Letters, 2008, 20, 644-646.	2.5	6
161	Effect of bending in SMF fibers under high power. , 2009, , .		6
162	Evolution of all-optical flip-flops and their applications in optical communications networks. IET Optoelectronics, 2012, 6, 263-276.	3.3	6

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163	Online Group-Velocity Dispersion Monitor Based on Clock Frequency Power Analysis. IEEE Photonics Technology Letters, 2012, 24, 1533-1535.	2.5	6
164	Low-Cost Spectrograph Based on a WebCam: A Student Project. International Journal of Electrical Engineering and Education, 2014, 51, 1-11.	0.8	6
165	Surface crystallization of ionic liquid crystals. Physical Chemistry Chemical Physics, 2019, 21, 17792-17800.	2.8	6
166	Single-Photon Source by Means of Four-Wave Mixing Inside a Dispersion-Shifted Optical Fiber. , 2006, , .		6
167	Nonlinear refractive index and chromatic dispersion simultaneous measurement in non zero dispersion shift optical fibres. , 0, , .		5
168	Bit error rate assessment in DWDM transparent networks using optical performance monitor based in asynchronous sampling. , 0, , .		5
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170	Optimised wavelength interleaved radio-over-fibre system based on highly birefringent fibre Bragg gratings. Electronics Letters, 2005, 41, 30.	1.0	5
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