

# Jose Manuel Sanchez-Pena

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

2,315  
citations

201385

27  
h-index

264894

42  
g-index

124  
all docs

124  
docs citations

124  
times ranked

2383  
citing authors

#	ARTICLE	IF	CITATIONS
1	A simplified all-polymer flexible electrochromic device. <i>Electrochimica Acta</i> , 2004, 49, 3555-3559.	2.6	154
2	Photodynamic Therapy: A Compendium of Latest Reviews. <i>Cancers</i> , 2021, 13, 4447.	1.7	134
3	Light Technology for Efficient and Effective Photodynamic Therapy: A Critical Review. <i>Cancers</i> , 2021, 13, 3484.	1.7	86
4	Recent Advances in Adaptive Liquid Crystal Lenses. <i>Crystals</i> , 2019, 9, 272.	1.0	82
5	Ultrahigh-quality factor resonant dielectric metasurfaces based on hollow nanocuboids. <i>Optics Express</i> , 2019, 27, 6320.	1.7	72
6	Roadmap on optical sensors. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 083001.	1.0	70
7	Visible Light Communication System Using an Organic Bulk Heterojunction Photodetector. <i>Sensors</i> , 2013, 13, 12266-12276.	2.1	57
8	Anapole Modes in Hollow Nanocuboid Dielectric Metasurfaces for Refractometric Sensing. <i>Nanomaterials</i> , 2019, 9, 30.	1.9	56
9	Tunable liquid crystal multifocal microlens array. <i>Scientific Reports</i> , 2017, 7, 17318.	1.6	55
10	Fiber Specklegram-Multiplexed Sensor. <i>Journal of Lightwave Technology</i> , 2015, 33, 2591-2597.	2.7	52
11	Infiltrated Photonic Crystal Fibers for Sensing Applications. <i>Sensors</i> , 2018, 18, 4263.	2.1	49
12	Stabilization of Dual-Wavelength Erbium-Doped Fiber Ring Lasers by Single-Mode Operation. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 368-370.	1.3	48
13	Overcoming Nonlocal Effects and Brillouin Threshold Limitations in Brillouin Optical Time-Domain Sensors. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	1.0	48
14	Gas Sensor Based on Photonic Crystal Fibres in the $2\hat{1}/23$ and $\hat{1}/22 + 2\hat{1}/23$ Vibrational Bands of Methane. <i>Sensors</i> , 2009, 9, 6261-6272.	2.1	38
15	Simultaneous Temperature and Strain Discrimination in a Conventional BOTDA via Artificial Neural Networks. <i>Journal of Lightwave Technology</i> , 2018, 36, 2114-2121.	2.7	38
16	Curvature Sensor Based on In-Fiber Mach-Zehnder Interferometer Inscribed With Femtosecond Laser. <i>Journal of Lightwave Technology</i> , 2017, 35, 4624-4628.	2.7	36
17	A Low-Cost LED-Based Solar Simulator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 4913-4923.	2.4	35
18	An Autostereoscopic Device for Mobile Applications Based on a Liquid Crystal Microlens Array and an OLED Display. <i>Journal of Display Technology</i> , 2014, 10, 713-720.	1.3	34

#	ARTICLE	IF	CITATIONS
19	An All-Organic Flexible Visible Light Communication System. <i>Sensors</i> , 2018, 18, 3045.	2.1	32
20	All-Dielectric Silicon Metasurface with Strong Subterahertz Toroidal Dipole Resonance. <i>Advanced Optical Materials</i> , 2019, 7, 1900777.	3.6	32
21	Comparative Experimental Study of a High-Temperature Raman-Based Distributed Optical Fiber Sensor with Different Special Fibers. <i>Sensors</i> , 2019, 19, 574.	2.1	32
22	Stability Comparison of Two Ring Resonator Structures for Multiwavelength Fiber Lasers Using Highly Doped Er-Fibers. <i>Journal of Lightwave Technology</i> , 2009, 27, 2563-2569.	2.7	30
23	Generation of Optical Vortices by an Ideal Liquid Crystal Spiral Phase Plate. <i>IEEE Electron Device Letters</i> , 2014, 35, 856-858.	2.2	30
24	Integral Imaging Capture System With Tunable Field of View Based on Liquid Crystal Microlenses. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1854-1857.	1.3	30
25	Liquid crystal spherical microlens array with high fill factor and optical power. <i>Optics Express</i> , 2017, 25, 605.	1.7	29
26	Toroidal metasurface resonances in microwave waveguides. <i>Scientific Reports</i> , 2019, 9, 7544.	1.6	29
27	A Novel High-Sensitivity, Low-Power, Liquid Crystal Temperature Sensor. <i>Sensors</i> , 2014, 14, 6571-6583.	2.1	28
28	All-Optical Nanometric Switch Based on the Directional Scattering of Semiconductor Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19558-19564.	1.5	28
29	Low aberration and fast switching microlenses based on a novel liquid crystal mixture. <i>Optics Express</i> , 2017, 25, 14795.	1.7	28
30	Recent Advances in Biomedical Photonic Sensors: A Focus on Optical-Fibre-Based Sensing. <i>Sensors</i> , 2021, 21, 6469.	2.1	28
31	Visible Light Communication system using an organic emitter and a perovskite photodetector. <i>Organic Electronics</i> , 2019, 73, 292-298.	1.4	26
32	Liquid Crystal Microlenses for Autostereoscopic Displays. <i>Materials</i> , 2016, 9, 36.	1.3	25
33	Cylindrical Liquid Crystal Microlens Array With Rotary Optical Power and Tunable Focal Length. <i>IEEE Electron Device Letters</i> , 2015, 36, 582-584.	2.2	24
34	Slit Beam Shaping Technique for Femtosecond Laser Inscription of Enhanced Plane-by-Plane FBGs. <i>Journal of Lightwave Technology</i> , 2020, 38, 4526-4532.	2.7	24
35	Remote (155 km) Fiber Bragg Grating Interrogation Technique Combining Raman, Brillouin, and Erbium Gain in a Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 621-623.	1.3	23
36	Frequency and Temperature Dependence of Fabrication Parameters in Polymer Dispersed Liquid Crystal Devices. <i>Materials</i> , 2014, 7, 3512-3521.	1.3	23

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37	Selective Dielectric Metasurfaces Based on Directional Conditions of Silicon Nanopillars. <i>Nanomaterials</i> , 2017, 7, 177.	1.9	23
38	Fiber Optic Temperature Sensor Based on Amplitude Modulation of Metallic and Semiconductor Nanoparticles in a Liquid Crystal Mixture. <i>Journal of Lightwave Technology</i> , 2015, 33, 2451-2455.	2.7	22
39	Ultrahigh Temperature Raman-Based Distributed Optical Fiber Sensor With Gold-Coated Fiber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 296-301.	1.9	22
40	Use of the Plasma Spectrum RMS Signal for Arc-Welding Diagnostics. <i>Sensors</i> , 2009, 9, 5263-5276.	2.1	21
41	All-Dielectric Toroidal Metasurfaces for Angular-Dependent Resonant Polarization Beam Splitting. <i>Advanced Optical Materials</i> , 2021, 9, 2002143.	3.6	21
42	Optical Fiber Sensors by Direct Laser Processing: A Review. <i>Sensors</i> , 2020, 20, 6971.	2.1	20
43	Arc-Welding Spectroscopic Monitoring based on Feature Selection and Neural Networks. <i>Sensors</i> , 2008, 8, 6496-6506.	2.1	19
44	Defect Detection in Arc-Welding Processes by Means of the Line-to-Continuum Method and Feature Selection. <i>Sensors</i> , 2009, 9, 7753-7770.	2.1	19
45	Boosting ultrathin aSi-H solar cells absorption through a nanoparticle cross-packed metasurface. <i>Solar Energy</i> , 2020, 202, 10-16.	2.9	19
46	Temperature-Frequency Converter Using a Liquid Crystal Cell as a Sensing Element. <i>Sensors</i> , 2012, 12, 3204-3214.	2.1	18
47	A Low-Cost Visible Light Positioning System for Indoor Positioning. <i>Sensors</i> , 2020, 20, 5145.	2.1	18
48	Measuring the Water Content in Wood Using Step-Heating Thermography and Speckle Patterns-Preliminary Results. <i>Sensors</i> , 2020, 20, 316.	2.1	18
49	Comparison of the Stability of Ring Resonator Structures for Multiwavelength Fiber Lasers Using Raman or Er-Doped Fiber Amplification. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 1551-1557.	1.0	17
50	Modal liquid crystal microaxicon array. <i>Optics Letters</i> , 2014, 39, 3476.	1.7	17
51	Custom Scanning Hyperspectral Imaging System for Biomedical Applications: Modeling, Benchmarking, and Specifications. <i>Sensors</i> , 2019, 19, 1692.	2.1	17
52	Limitations of Standard Accessible Captioning of Sounds and Music for Deaf and Hard of Hearing People: An EEG Study. <i>Frontiers in Integrative Neuroscience</i> , 2020, 14, 1.	1.0	17
53	Multi-Line Fit Model for the Detection of Methane at $\hat{1}\frac{1}{2}2 + 2\hat{1}\frac{1}{2}3$ Band using Hollow-Core Photonic Bandgap Fibres. <i>Sensors</i> , 2009, 9, 490-502.	2.1	15
54	Liquid Crystal Lensacons, Logarithmic and Linear Axicons. <i>Materials</i> , 2014, 7, 2593-2604.	1.3	15

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55	Distributed High-Temperature Optical Fiber Sensor Based on a Brillouin Optical Time Domain Analyzer and Multimode Gold-Coated Fiber. <i>IEEE Sensors Journal</i> , 2017, 17, 2393-2397.	2.4	15
56	Microwave Tunable Notch Filter Based on Liquid Crystal Using Spiral Spurline Technology. <i>Microwave and Optical Technology Letters</i> , 2013, 55, 2420-2423.	0.9	14
57	Cylindrical and Powell Liquid Crystal Lenses With Positive-Negative Optical Power. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 1057-1060.	1.3	14
58	Liquid Crystal Temperature Sensor Based on a Micrometric Structure and a Metallic Nanometric Layer. <i>IEEE Electron Device Letters</i> , 2014, 35, 666-668.	2.2	13
59	Wireless Temperature Sensor Based on a Nematic Liquid Crystal Cell as Variable Capacitance. <i>Sensors</i> , 2018, 18, 3436.	2.1	13
60	All-Dielectric Metasurface Based on Complementary Split-Ring Resonators for Refractive Index Sensing. <i>Photonics</i> , 2022, 9, 130.	0.9	13
61	Influence of Humidity on the Measurement of Brillouin Frequency Shift. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1959-1961.	1.3	12
62	Early diagnosis of frailty: Technological and non-intrusive devices for clinical detection. <i>Ageing Research Reviews</i> , 2021, 70, 101399.	5.0	12
63	Engineering Aspheric Liquid Crystal Lenses by Using the Transmission Electrode Technique. <i>Crystals</i> , 2020, 10, 835.	1.0	10
64	Impedance analysis and equivalent circuit of an all-plastic viologen based electrochromic device. <i>Displays</i> , 2008, 29, 401-407.	2.0	9
65	A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. <i>IEEE Sensors Journal</i> , 2013, 13, 2279-2283.	2.4	9
66	High-Sensitivity Fabry-Pérot Temperature Sensor Based on Liquid Crystal Doped With Nanoparticles. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 292-295.	1.3	9
67	Virtual FBGs Using Saturable Absorbers for Sensing with Fiber Lasers. <i>Sensors</i> , 2018, 18, 3593.	2.1	9
68	A novel aerosolisation mitigation device for endoscopic sinus and skull base surgery in the COVID-19 era. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021, 278, 1869-1877.	0.8	8
69	Liquid level sensor based on dynamic Fabry-Pérot interferometers in processed capillary fiber. <i>Scientific Reports</i> , 2021, 11, 3039.	1.6	8
70	Reconfigurable 1- $\lambda$ -2 wavelength selective switch using high birefringence nematic liquid crystals. <i>Applied Optics</i> , 2012, 51, 5960.	0.9	7
71	Raw Material Classification by Means of Hyperspectral Imaging and Hierarchical Temporal Memories. <i>IEEE Sensors Journal</i> , 2012, 12, 2767-2775.	2.4	7
72	Improving the Pass-Band Return Loss in Liquid Crystal Dual-Mode Bandpass Filters by Microstrip Patch Reshaping. <i>Materials</i> , 2014, 7, 4524-4535.	1.3	7

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73	Directional Scattering of Semiconductor Nanoparticles Embedded in a Liquid Crystal. <i>Materials</i> , 2014, 7, 2784-2794.	1.3	7
74	Using an Analytical Model to Design Liquid Crystal Microlenses. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 793-796.	1.3	7
75	Thermally tunable polarization by nanoparticle plasmonic resonance in photonic crystal fibers. <i>Optics Express</i> , 2015, 23, 28935.	1.7	7
76	Size Dependence of the Directional Scattering Conditions on Semiconductor Nanoparticles. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2059-2062.	1.3	7
77	Sinusoidal Voltage-Controlled Oscillator Based on a Liquid Crystal Cell as Variable Capacitance. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L221-L223.	0.8	6
78	Bragg Gratings Written in Tapered Solid-Core Photonic Crystal Fibers. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1048-1050.	1.3	6
79	Note: Phase-locked loop with a voltage controlled oscillator based on a liquid crystal cell as variable capacitance. <i>Review of Scientific Instruments</i> , 2011, 82, 126101.	0.6	6
80	Editorial Third Special Issue on Optical Fiber Sensors. <i>IEEE Sensors Journal</i> , 2012, 12, 5-7.	2.4	6
81	Thickness-Dependent Coloration Properties of Glass-Substrate Viologen-Based Electrochromic Devices. <i>IEEE Photonics Journal</i> , 2012, 4, 2105-2115.	1.0	6
82	Automatic strain detection in a Brillouin Optical Time Domain sensor using Principal Component Analysis and Artificial Neural Networks. , 2014, , .		6
83	Liquid Crystal Temperature Sensor Based on Three Electrodes and a High-Resistivity Layer. <i>IEEE Sensors Journal</i> , 2015, 15, 5222-5227.	2.4	6
84	2D tunable beam steering - lens device based on high birefringence liquid crystals. , 2011, , .		5
85	Complementary Use of Active Infrared Thermography and Optical Coherent Tomography in Non-destructive Testing Inspection of Ancient Marquetries. <i>Journal of Nondestructive Evaluation</i> , 2020, 39, 1.	1.1	5
86	Automatic Ankle Angle Detection by Integrated RGB and Depth Camera System. <i>Sensors</i> , 2021, 21, 1909.	2.1	5
87	Pre-processing techniques of thermal sequences applied to online welding monitoring. <i>Quantitative InfraRed Thermography Journal</i> , 2012, 9, 69-78.	2.1	4
88	Experimental demonstration of a leakage monitoring system for large diameter water pipes using a fiber optic distributed sensor system. , 2014, , .		4
89	Optimized Minimum-Forward Light Scattering by Dielectric Nanopillars. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2160-2163.	1.3	4
90	SLM Fiber Laser Stabilized at High Temperature. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 693-696.	1.3	4

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91	An Analogueâ€“Digital Instrumentation System for Characterizing Electrical Behavior of Antiferroelectric Liquid Crystal Display Pixels. Japanese Journal of Applied Physics, 2004, 43, 4376-4378.	0.8	3
92	High Temperature Long Period Grating Thermo-Mechanically Written. Sensors, 2009, 9, 5649-5654.	2.1	3
93	Hessian analysis for the delineation of amorphous anomalies in optical coherence tomography images of the aortic wall. Biomedical Optics Express, 2016, 7, 1415.	1.5	3
94	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.	2.3	2
95	In-axis reception by polarization discrimination in a modulating-retroreflector-based free-space optical communication link. Microwave and Optical Technology Letters, 2012, 54, 2520-2522.	0.9	2
96	Study of Fiber Bragg Grating Spectral Overlapping for Laser Structures. IEEE Photonics Technology Letters, 2014, 26, 1108-1111.	1.3	2
97	DBR Fiber Laser Sensor With Polarization Mode Suppression. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 551-554.	1.9	2
98	Temperature-Phase Converter Based on a LC Cell as a Variable Capacitance. Sensors, 2015, 15, 5594-5608.	2.1	2
99	Control of disability glare by means of electrochromic filtering glasses: A pilot study. Journal of Innovative Optical Health Sciences, 2017, 10, 1650028.	0.5	2
100	Driving Signals Optimization for Viologen-Based Electrochromic Vision Devices. IEEE Sensors Journal, 2019, 19, 1740-1747.	2.4	2
101	Laser Metal Deposition On-Line Monitoring via Plasma Emission Spectroscopy and Spectral Correlation Techniques. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	2
102	Sensing Using Light: A Key Area of Sensors. Sensors, 2021, 21, 6562.	2.1	2
103	An Enhanced Method for Dynamic Characterization of High-Power LEDs for Visible Light Communication Applications. Electronics (Switzerland), 2022, 11, 292.	1.8	2
104	Emotion Elicitation through Vibrotactile Stimulation as an Alternative for Deaf and Hard of Hearing People: An EEG Study. Electronics (Switzerland), 2022, 11, 2196.	1.8	2
105	Optimized image calibration for spectroscopic systems. , 2011, , .		1
106	Sensor System Based on a Brillouin Fiber Laser for Remote in Series Fiber Bragg Gratings Interrogation. IEEE Sensors Journal, 2012, 12, 3480-3482.	2.4	1
107	Note: Series and parallel tunable resonators based on a nematic liquid crystal cell as variable capacitance. Review of Scientific Instruments, 2012, 83, 086104.	0.6	1
108	Optical spectroscopic sensors: From the control of industrial processes to tumor delineation. , 2013, , .		1

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109	Broadband 1Å–2 liquid crystal router with low thermal dependence for polymer optical fiber networks. Optics Communications, 2014, 333, 281-287.	1.0	1
110	Colorimetric analysis for on-line arc-welding diagnostics by means of plasma optical spectroscopy. , 2014, , .		1
111	Induced Magnetic Anisotropy in Liquid Crystals Doped with Resonant Semiconductor Nanoparticles. Journal of Nanomaterials, 2016, 2016, 1-9.	1.5	1
112	Feasibility Study of a Fiber Ring Laser Working on the SLM Regime in a BOTDA Sensor. IEEE Sensors Journal, 2018, 18, 4947-4953.	2.4	1
113	An inertial sensor-based system designed to measure and prevent undesired camera rotation during endoscopic sinus surgery. International Forum of Allergy and Rhinology, 2020, 10, 689-691.	1.5	1
114	Guest Editorial Introduction to the JSTQE Special Issue on Photonics for Industry 4.0. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-4.	1.9	1
115	Slit Beam Shaping Technique for Femtosecond Laser Inscription of Symmetric Cladding Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	1
116	A new design technique for optical multipass cells modelled with arbitrary surfaces. Microwave and Optical Technology Letters, 2003, 37, 383-387.	0.9	0
117	Fiber-optic technologies for tissue diagnosis in cardiovascular and oncology applications. , 2015, , .		0
118	Design and Experimental Implementation of a Multi-Cloak Paraxial Optical System. Photonics, 2021, 8, 358.	0.9	0
119	ATAD: Una Ayuda Tcnica para la Autonoma en el Desplazamiento. Revista Espaola De Discapacidad, 2013, 1, 143-154.	0.1	0
120	Theoretical approach of a polymer stabilized blue phase beam steering. Photonics Letters of Poland, 2017, 9, 14.	0.2	0
121	Exploring the scattering directionality and light interaction in nanoparticle dimers of different semiconductors. Photonics Letters of Poland, 2017, 9, 42.	0.2	0
122	Novel microstructures on indium tin oxide for liquid crystal adaptive lenses. , 2019, , .		0
123	Ultra-high-Q dielectric metasurface for polarization conversion. , 2019, , .		0