

Miguel Torres-Cisneros

List of Publications by Year in descending order

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Version: 2024-02-01

161
papers

869
citations

623734

14
h-index

552781

26
g-index

165
all docs

165
docs citations

165
times ranked

1003
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical fiber temperature sensor based on a microcavity with polymer overlay. Optics Express, 2016, 24, 5654.	3.4	100
2	Experimental evidence of modulation instability in a photorefractive Bi ₁₂ TiO ₂₀ crystal. Optics Letters, 1995, 20, 1853.	3.3	60
3	Fiber Optic Sensor for High-Sensitivity Salinity Measurement. IEEE Photonics Technology Letters, 2013, 25, 2323-2326.	2.5	56
4	Digital Image Processing Technique for Breast Cancer Detection. International Journal of Thermophysics, 2013, 34, 1519-1531.	2.1	44
5	Temperature-independent curvature sensor based on in-fiber Mach-Zehnder interferometer using hollow-core fiber. Journal of Lightwave Technology, 2020, , 1-1.	4.6	42
6	System fusion in passive sensing using a modified hopfield network. Journal of the Franklin Institute, 2001, 338, 405-427.	3.4	37
7	Highly Sensitive Liquid Core Temperature Sensor Based on Multimode Interference Effects. Sensors, 2015, 15, 26929-26939.	3.8	35
8	Stimulated Raman scattering in a fiber with bending loss. Optics Communications, 1999, 169, 87-91.	2.1	32
9	A Highly Sensitive Fiber Optic Sensor Based on Two-Core Fiber for Refractive Index Measurement. Sensors, 2013, 13, 14200-14213.	3.8	29
10	Supercontinuum optimization for dual-soliton based light sources using genetic algorithms in a grid platform. Optics Express, 2014, 22, 23686.	3.4	28
11	Sensitivity Enhancement of Curvature Fiber Sensor Based on Polymer-Coated Capillary Hollow-Core Fiber. Sensors, 2020, 20, 3763.	3.8	27
12	Total internal reflection of spatial solitons at interface formed by a nonlinear saturable and a linear medium. Optics Communications, 2001, 193, 267-276.	2.1	25
13	Multi-peak-spectra generation with Cherenkov radiation in a non-uniform single mode fiber. Optics Express, 2014, 22, 2451.	3.4	25
14	Yb ³⁺ quenching effects in co-doped polycrystalline BaTiO ₃ :Er ³⁺ , Yb ³⁺ . Optical Materials, 2008, 31, 252-260.	3.6	20
15	Detection of Biological Cells in Phase-Contrast Microscopy Images. , 2006, , .		16
16	In-Line Mach-Zehnder Interferometers Based on a Capillary Hollow-Core Fiber Using Vernier Effect for a Highly Sensitive Temperature Sensor. Sensors, 2021, 21, 5471.	3.8	15
17	Prism-Based Surface Plasmon Resonance for Dual-Parameter Sensing. IEEE Sensors Journal, 2018, 18, 4030-4037.	4.7	14
18	Performance optimization and mechanical modeling of uniaxial piezoresistive microaccelerometers. Microsystem Technologies, 2010, 16, 461-476.	2.0	13

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19	Dual-Point Refractive Index Measurements Using Coupled Seven-Core Fibers. <i>Journal of Lightwave Technology</i> , 2021, 39, 310-319.	4.6	12
20	Intermixing of InP-based multiple quantum wells for integrated optoelectronic devices. <i>Microelectronics Journal</i> , 2009, 40, 574-576.	2.0	11
21	Nano-droplet formation in polymer dispersed liquid crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1515-1520.	0.8	11
22	Effect of PMMA impregnation on the fluorescence quantum yield of sol-gel glasses doped with quinine sulfate. <i>Optical Materials</i> , 2001, 17, 415-418.	3.6	10
23	Ultra-High-Sensitivity Temperature Sensor Using a Fiber Loop Mirror Based on a Water-Filled Asymmetric Two-Hole Fiber. <i>IEEE Sensors Journal</i> , 2020, 20, 5953-5961.	4.7	10
24	Characterization of metal-dielectric photonic crystals. <i>Optical Materials</i> , 2006, 29, 60-64.	3.6	9
25	Tunable field depth: hyperbolic optical masks. <i>Applied Optics</i> , 2017, 56, A104.	2.1	9
26	Analysis of a Sagnac interferometer with low-birefringence twisted fiber. <i>Optics and Lasers in Engineering</i> , 2003, 39, 635-643.	3.8	8
27	Photonic density of states maps for design of photonic crystal devices. <i>Microelectronics Journal</i> , 2008, 39, 685-689.	2.0	8
28	Modeling of the intrinsic stress effect on the resonant frequency of NEMS resonators integrated by beams with variable cross-section. <i>Microsystem Technologies</i> , 2010, 16, 2067-2074.	2.0	8
29	Segmentation of Coronary Angiograms Using Gabor Filters and Boltzmann Univariate Marginal Distribution Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-9.	1.7	8
30	Hadamard circular masks: high focal depth with high throughput. <i>Optics Express</i> , 2017, 25, 17004.	3.4	8
31	A stochastic analysis of an anharmonic sensor phase response. <i>IEEE Sensors Journal</i> , 2003, 3, 158-163.	4.7	7
32	A device approach to propagation in nonlinear photonics crystal. <i>Optical Materials</i> , 2005, 27, 1260-1265.	3.6	7
33	Synthesis and nonlinear optical behavior of Ag nanoparticles in PMMA. <i>Microelectronics Journal</i> , 2009, 40, 621-623.	2.0	7
34	Automatic Image Segmentation Using Active Contours with Univariate Marginal Distribution. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	1.1	7
35	Refractive index sensing setup based on a taper and an intrinsic micro Fabry-Perot interferometer. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 10, .	1.9	7
36	Internal reflection of one-dimensional bright spatial solitons. <i>Optical and Quantum Electronics</i> , 1998, 30, 687-696.	3.3	6

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37	Multiple Active Contours Guided by Differential Evolution for Medical Image Segmentation. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-14.	1.3	6
38	Optical switching by coherent collision of spatial solitons. Electronics Letters, 2000, 36, 1403.	1.0	5
39	Frequency, time-frequency and wavelet analysis of ECG signal. , 2006, , .		5
40	Synthesis and optical characterization of Ag0 nanoparticles. Microelectronics Journal, 2009, 40, 618-620.	2.0	5
41	Color Texture Histograms for Natural Images Interpretation. , 2007, , .		4
42	Parkinson's disease: Improved diagnosis using image processing. , 2017, , .		4
43	All-Fiber Measurement of Surface Tension Using a Two-Hole Fiber. Sensors, 2020, 20, 4219.	3.8	4
44	Suspended LRSPP for the development of highly integrated active plasmonic devices. Optics Express, 2019, 27, 8858.	3.4	4
45	Data fitting on a spherical shell. , 2003, , .		3
46	A semi-spherical irradiance profiles meter used as a quality control device. , 2006, , .		3
47	Antenna prototypes for indoor and outdoor Wi-Fi communication. , 2009, , .		3
48	Fiber Optic Vibration Sensor based on Multimode Interference Effects. , 2012, , .		3
49	Pattern Recognition in Photoacoustic Dataset. International Journal of Thermophysics, 2013, 34, 1638-1645.	2.1	3
50	Laser-Induced Deposition of Carbon Nanotubes in Fiber Optic Tips of MMI Devices. Sensors, 2019, 19, 4512.	3.8	3
51	Narrow spectral linewidth and tunable erbium-doped fiber ring laser using a MZI based on CHCF. Optical Fiber Technology, 2021, 67, 102739.	2.7	3
52	<title>Implementation of a laser beam analyzer using the image acquisition card IMAQ (NI)</title>. , 2001, , .		2
53	Cell tracking by normalized cross-correlation with image processing. , 2008, , .		2
54	Novel multimode interference liquid level sensors. Proceedings of SPIE, 2010, , .	0.8	2

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55	Analysis of Equivalent Antennas in RT Duroid 5880 and 5870 for GPS Operation Frequency. , 2010, , .		2
56	Measurement of curvature and temperature using multimode interference devices. Proceedings of SPIE, 2011, , .	0.8	2
57	Ytterbium Fiber Laser Based on a Three Beam Optical Path Mach-Zehnder Interferometer. IEEE Photonics Technology Letters, 2016, , 1-1.	2.5	2
58	Pseudo-random masks for angular alignment. Applied Optics, 2017, 56, 7869.	1.8	2
59	<title>Self bending of spatial solitons in a nonlinear interface governed by drift and diffusion mechanism</title>. , 2001, , .		1
60	<title>Design of an interferogram fringe counter based on LabVIEW</title>. , 2001, 4419, 309.		1
61	Mechanisms of crossing for an X-junction based on dark spatial solitons. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S430-S435.	1.4	1
62	Terahertz generation in photonic crystals. , 2004, , .		1
63	Comparison of the Dicke model and the Hamiltonian for n quantum dots. , 2005, , .		1
64	Nonlinear properties of the omniguide fiber. , 2005, , .		1
65	Electrically Tunable 2 \bar{A} –2 Multimode Interference Coupler. AIP Conference Proceedings, 2008, , .	0.4	1
66	Irradiance patterns of directive illumination sources. , 2009, , .		1
67	A prototype of planar autonomous solar concentrator. , 2009, , .		1
68	Rectangular prototype to determine the irradiance pattern produced by directive sources. Proceedings of SPIE, 2009, , .	0.8	1
69	Online analysis of sulfur in diesel line by a monochromatic wavelength dispersive x-ray fluorescence spectrometry. , 2009, , .		1
70	Comparative Analysis of Thermography Studies and Electrical Measurement of Partial Discharges in Underground Power Cables. International Journal of Thermophysics, 2015, 36, 2356-2369.	2.1	1
71	Optical Processors as Conceptual Tools for Designing Nonconventional Devices. Springer Series in Optical Sciences, 2015, , 117-146.	0.7	1
72	Omnidirectional Reflector in a Ternary Metallo-Dielectric Stack. , 2010, , .		1

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73	Mechanisms of crossing for two optical waveguides based on dark spatial solitons. Acta Universitaria, 2012, 13, 33-38.	0.2	1
74	OPTIMIZACI3N TOPOL3GICA DE UNA BOVEDILLA DE ESPUMA DE POLIESTIRENO CON MEZCLA DE DENSIDADES. Dyna (Spain), 2013, 88, 444-452.	0.2	1
75	Estudio ac3stico-estructural de la cabina de un veh3culo automotriz. Ingenier3a Investigaci3n Y Tecnolog3a, 2010, 11, 73-86.	0.1	1
76	Salinity Sensor based on a Two-Core Fiber. , 2012, , .		1
77	Ratiometric Temperature Sensor Based on a Multicore Optical Fiber. , 2016, , .		1
78	Temperature Sensor Based on Fiber-Optic Fabry-Perot Interferometer. , 2018, , .		1
79	Polymer Comparison on Temperature Sensors Based on Fiber-Optic Fabry-Perot Interferometer. , 2018, , .		1
80	Biosensing using long-range surface plasmon structures. , 2018, , .		1
81	CLASSIFICATION OF MEDICAL IMAGES USING MACHINE LEARNING. Dyna (Spain), 2022, 97, 35-38.	0.2	1
82	Femtosecond Soliton Amplification in an Er-Doped Fiber Amplifier with Inhomogeneously Broadened Line. Optical Fiber Technology, 1996, 2, 143-148.	2.7	0
83	<title>One-dimensional bright spatial soliton internal reflection in a PRC-linear interface</title>. , 1999, 3749, 748.		0
84	Experimental evidence of internal reflection of two-dimensional beam in photorefractive (SBN61:Ce) interface. , 2000, , .		0
85	Observation of zinc blend to diamond transition in metastable (GaAs) 1-x (Ge 2) x alloys by Raman scattering. , 2000, , .		0
86	Nonlinear optical properties in PMMA films with dispersed silver nanoparticles. , 2000, 4087, 924.		0
87	Thermal transient studies of anharmonic sensors of aging of precision AT-cut crystal resonator. , 0, , .		0
88	<title>Estimation of interferogram aberration coefficients using wavelet bases and Zernike polynomials</title>. , 2001, 4478, 373.		0
89	<title>Optical sensed image fusion with dynamic neural networks</title>. , 2001, 4419, 632.		0
90	<title>Experimental observation of spatial bright soliton branching in a SBN61:Ce crystal</title>. , 2001, , .		0

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91	<title>Identification of the multipath parameters of propagation channels with scattering</title> . , 2001, , .		0
92	Novel, tunable and enhanced terahertz sources using nonlinear photonic crystals. , 0, , .		0
93	Optical devices based on spatial bright solitons with controllable outputs. , 0, , .		0
94	Photonic junction based on dark spatial solitons. , 0, , .		0
95	Linear and nonlinear optical characterization of PMMA clusters with Ni nanoparticles dispersed. , 2003, 4833, 617.		0
96	All optical switching by total internal reflection in nonlinear interface of (2+1)D beams in SBN61:Ce. , 2003, , .		0
97	Spectral filter for the stokes suppression in the stimulated raman scattering. , 2003, , .		0
98	Optical sensed image fusion based on neural networks. , 2003, 4833, 121.		0
99	Analysis of a low-birefringence fiber Sagnac interferometer by twisted fiber. , 2003, , .		0
100	Stochastic optical solitons in nonlinear media type kerr. , 0, , .		0
101	Bistability, chirping, and switching in a nonlinear and partially nonlinear photonics crystal. , 2005, 5733, 278.		0
102	Periodic structures by amplitude mask 2D in nonlinear liquid medium CS/sub 2/. , 0, , .		0
103	Coupling between metallic microstrips on dielectric sustrates. , 2006, , .		0
104	Detection of biological cells in phase-contrast video microscopy. , 2006, , .		0
105	SYNTHESIS AND CHARACTERIZATION OF METALLIC NANO-SPHERES. , 2006, , .		0
106	Biestability, Chirping and Switching in a Cuasilineal Photonic Crystal. , 2006, , FThA1.		0
107	A Practical and Cheap Circuit for ECG Sensing and Heart Frequency Alarm. AIP Conference Proceedings, 2006, , .	0.4	0
108	SOLAR CONCENTRATOR GUIDANCE. , 2006, , .		0

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109	Solitons propagation in non-homogeneous periodic media by tandem arrangement of nonlinear materials. , 2006, , .		0
110	Image Processing for in Vitro Cell Tracking. IFMBE Proceedings, 2007, , 1148-1151.	0.3	0
111	Cells Tracking by Snakes. AIP Conference Proceedings, 2008, , .	0.4	0
112	Patch antenna for 2.4 HGz. , 2008, , .		0
113	Spherical Dielectric Photonic Crystal with Metallic Core. , 2008, , .		0
114	Chirping, switching and transmit time in a nonlinear 1D photonic crystal. , 2008, , .		0
115	Intermixing properties of InP-based MQW’s. , 2008, , .		0
116	Optical Characterization of Ag[^{sup 0}] and TiO[_{sub 2}] Nanoparticles. AIP Conference Proceedings, 2008, , .	0.4	0
117	Transfer Matrix and Reflexion in a Metallo-Dielectric Photonic Crystal. AIP Conference Proceedings, 2008, , .	0.4	0
118	Semispherical Armonics. AIP Conference Proceedings, 2008, , .	0.4	0
119	Cell recognition and tracking using nonlinear cross-correlation. , 2008, , .		0
120	Coupled-resonator optical waveguide based on layered media. , 2008, , .		0
121	One-dimensional photonic crystal with a conducting nanoparticles composite. Proceedings of SPIE, 2009, , .	0.8	0
122	Solitons propagation in a tandem arrangement of nonlinear materials. , 2009, , .		0
123	Cell recognition by image processing and nonlinear cross correlation. Proceedings of SPIE, 2009, , .	0.8	0
124	Spherical 3D photonic crystal with conducting nanoshell and particle core. Proceedings of SPIE, 2009, , .	0.8	0
125	Spherical prototype to determine the irradiance patterns produced by divergent sources. Proceedings of SPIE, 2009, , .	0.8	0
126	Two-dimensional cell tracking by FPGA-optical correlation method. , 2009, , .		0

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127	Nonlinear pulse propagation in an optical fiber doped with conducting nanoparticles. , 2009, , .		0
128	Antenna of adjustable bandwidth based on a pentagonal array. , 2011, , .		0
129	Analytical description of band gaps in a ternary metallo-dielectric stack. Proceedings of SPIE, 2011, , .	0.8	0
130	Generation of irradiance patterns using a semi-spherical mirror of two degrees of freedom. Proceedings of SPIE, 2011, , .	0.8	0
131	Nanowires geometry dependence of coupling properties of a hybrid directional coupler. , 2012, , .		0
132	Multimode Interference Fiber Optic Vibration Sensor. , 2012, , .		0
133	A NiTiNOL membrane controlled by an external heat source. Proceedings of SPIE, 2012, , .	0.8	0
134	Fast and Accurate Cell Tracking by a Novel Optical-Digital Hybrid Method. International Journal of Thermophysics, 2013, 34, 1435-1443.	2.1	0
135	Tunable Field Depth: Hyperbolic Optical Masks. , 2016, , .		0
136	Spatial Optical Solitons in Mexico. , 2016, , .		0
137	Fabrication of micro-optical magnetic sensor. , 2017, , .		0
138	AC Measurement by Using an Optical Fiber Sensor. Telecommunications and Radio Engineering (English) Tj ETQq0 0.0 rgBT /Qverlock 10	0.4	0
139	Novel Green Sources by Using Photonics Crystal Enhanced Second Harmonic Generation in a Planar Waveguide. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and) Tj ETQq1 1 0.784314 rgBT dOverlock	1.0	0
140	Tunable 3-dB Multimode Interference coupler. , 2007, , .		0
141	Cell Tracking by Border-Optical Hybrid Model. , 2007, , .		0
142	Synthesis and Characterization of Ago Nanoparticles. , 2007, , .		0
143	Cell Tracking by Using Nonlinear Cross-Correlation. , 2008, , .		0
144	Digital-Optical Experimental Set Up for In vitro Cell Tracking based on Cross Correlation Technique. , 2009, , .		0

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145	Design of a 3D digitalizer by using an interferometric pattern. , 2011, , .		0
146	Biological System Modeling based on Fourier Series. , 2012, , .		0
147	Breast Cancer Classification of Mammograms using a Combined Classifier. , 2012, , .		0
148	Basic emergence of dispersive and nonlinear effects in fibers for supercontinuum generation by ultrashort pulses. , 2013, , .		0
149	Wigner Function of the Field in the Two-Dimensional Jaynes-Cummings Model. , 2016, , .		0
150	System for Medical Photoacoustic Image Processing. , 2016, , .		0
151	Spectral narrowing in the propagation of unchirped pulses in two-core fibers. , 2016, , .		0
152	Coherence in the Jaynes-Cumming Model. , 2017, , .		0
153	Tunable sinusoidal Phase Gratings and sinusoidal Phase Zone Plates. Photonics Letters of Poland, 2017, 9, 57.	0.4	0
154	Soliton in a 2 two-level atom media. , 2018, , .		0
155	Novel Structuresâ€™ Configurations for Long-Range Surface Plasmon-Polaritron. Computacion Y Sistemas, 2019, 23, .	0.3	0
156	Effect of the Erbium Concentration in the Luminescent Properties of ZrO2. Computacion Y Sistemas, 2019, 23, .	0.3	0
157	Cardiac Abnormalities Detection from Compressed ECG. Computacion Y Sistemas, 2019, 23, .	0.3	0
158	Curvature and sensitivity enhanced temperature polymer-coated multimode interference sensor. , 2019, , .		0
159	A Numerical Perspective on the Jaynes-Cummings Model Wigner Function. Computacion Y Sistemas, 2019, 23, .	0.3	0
160	Use of FFT to Increase Measurement Range of a Curvature Sensor Based on a Mach-Zehnder Interferometer. , 2020, , .		0
161	Extended axial irradiances: Barker rings. Optics Express, 2021, 29, 39709-39717.	3.4	0