

# Luz del Carmen GÃ³mez-PavÃ³n

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

281  
citations

1040056

9  
h-index

940533

16  
g-index

43  
all docs

43  
docs citations

43  
times ranked

360  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Synchronization of PWL function-based 2D and 3D multi-scroll chaotic systems. <i>Nonlinear Dynamics</i> , 2012, 70, 1633-1643.  | 5.2 | 88        |
| 2  | Multiband Flexible Antenna for Wearable Personal Communications. <i>Wireless Personal Communications</i> , 2018, 100, 1753-1764.  | 2.7 | 20        |
| 3  | Self-mode-locking action in a dual-core ring fiber laser. <i>Optics Communications</i> , 2001, 194, 409-414.  | 2.1 | 18        |
| 4  | High gain pulsed erbium-doped fiber amplifier for the nonlinear characterization of SWCNTs photodeposited on optical fibers. <i>Optics and Laser Technology</i> , 2013, 52, 15-20.  | 4.6 | 18        |
| 5  | Synchronization in a fractional-order model of pancreatic $\beta^2$ -cells. <i>European Physical Journal: Special Topics</i> , 2018, 227, 907-919.  | 2.6 | 17        |
| 6  | Tapered Optical Fiber Functionalized with Palladium Nanoparticles by Drop Casting and Laser Radiation for H <sub>2</sub> and Volatile Organic Compounds Sensing Purposes. <i>Sensors</i> , 2017, 17, 2039.  | 3.8 | 13        |
| 7  | CMOS Analog Filter Design for Very High Frequency Applications. <i>Electronics (Switzerland)</i> , 2020, 9, 362.  | 3.1 | 11        |
| 8  | Compensation of third-order dispersion in a 100â€%Gb/s single channel system with in-line fibre Bragg gratings. <i>Journal of Modern Optics</i> , 2005, 52, 1197-1206.  | 1.3 | 10        |
| 9  | Passively Q-switched erbium-doped fiber laser based on Zn nanoparticles as a saturable absorber. <i>Laser Physics</i> , 2017, 27, 105101.   | 1.2 | 10        |
| 10 | Two New Asymmetric Boolean Chaos Oscillators with No Dependence on Incommensurate Time-Delays and Their Circuit Implementation. <i>Symmetry</i> , 2020, 12, 506.  | 2.2 | 9         |
| 11 | Paraxial and tightly focused behaviour of the double ring perfect optical vortex. <i>Optics Express</i> , 2020, 28, 28713.  | 3.4 | 9         |
| 12 | Influence on the saturable absorption of the induced losses by photodeposition of zinc nanoparticles in an optical fiber. <i>Optics Express</i> , 2018, 26, 1556.   | 3.4 | 8         |
| 13 | Determining the Lyapunov Spectrum of Continuous-Time 1D and 2D Multiscroll Chaotic Oscillators via the Solution of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1" \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle m \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -PWL Variational Equations. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-11. | 0.7 | 7         |
| 14 | Photodeposition of SWCNTs onto the optical fiber end to assemble a Q-switched Er <sup>3+</sup> -doped fiber laser. <i>Optics and Laser Technology</i> , 2017, 91, 32-35.  | 4.6 | 7         |
| 15 | Text encryption device based on a chaotic random bit generator. , 2018, , .   |     | 7         |
| 16 | Synchronous Chaos Generation in an $\langle \text{inline-formula} \rangle \langle \text{tex-math notation="TeX" } \rangle \{m \text{Er}^{\wedge}\{3+\}\} \langle \text{tex-math} \rangle \langle \text{inline-formula} \rangle$ -Doped Fiber Laser System. <i>IEEE Photonics Journal</i> , 2015, 7, 1-6.  | 2.0 | 5         |
| 17 | Chaotic Planning Paths Generators by Using Performance Surfaces. <i>Studies in Computational Intelligence</i> , 2017, , 805-832.  | 0.9 | 5         |
| 18 | Synchronization of multi-directional multi-scroll chaos generators: A Hamiltonian approach. , 2011, , .   |     | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Synchronous mode-locking in multichannel fiber laser systems. Optics Communications, 2001, 191, 323-332.   | 2.1 | 3         |
| 20 | Synchronous pulse generation in a multicavity fiber laser system. , 2006, , .  |     | 2         |
| 21 | Synchronous Pulse Generation in an Array of Three $\text{Er}^{3+}$ -Doped Fiber Lasers. IEEE Photonics Journal, 2012, 4, 671-678.                    | 2.0 | 2         |
| 22 | Sensitivity analysis of multi-scroll chaotic oscillators at circuit level. , 2014, , .   |     | 2         |
| 23 | Influence of geometry of waveguide arrays to get discrete solitons. , 2011, , .  |     | 1         |
| 24 | Determining the number of scrolls in a multi-scroll chaotic oscillator under uncertainties. , 2013, , .  |     | 1         |
| 25 | Self-compression of coupled cnoidal waves. Journal of Nonlinear Optical Physics and Materials, 2015, 24, 1550010.                                    | 1.8 | 1         |
| 26 | Fault conditions of a simple chaotic circuit under capacitor nonlinear effects. , 2015, , .  |     | 1         |
| 27 | Partially coherent Bessel vortex superposition with linear charge increase and aligned maxima. Journal of Optics (United Kingdom), 2019, 21, 115603. | 2.2 | 1         |
| 28 | On the Synchronization of 1D and 2D Multi-scroll Chaotic Oscillators. Studies in Computational Intelligence, 2013, , 19-40.                          | 0.9 | 1         |
| 29 | Dynamics of soliton-like pulse generation in a multichannel fiber laser system. , 2000, , .  |     | 0         |
| 30 | <title>Dependence of the dispersion curves of a two-concentric-core optical fiber to the refraction index</title>. , 2004, , .                       |     | 0         |
| 31 | Photonic band-gap on dispersion curves of propagation modes of a two concentric. , 2006, , .   |     | 0         |
| 32 | Multicavity fiber laser. , 2008, , .   |     | 0         |
| 33 | Analysis of the propagation of low dimensional optical wave. , 2008, , .   |     | 0         |
| 34 | Experimental Study of a Multicavity Fiber Laser System. AIP Conference Proceedings, 2008, , .  | 0.4 | 0         |
| 35 | Wave propagation in a multiple interfaces nanowaveguide. , 2011, , .   |     | 0         |
| 36 | Controlled robotic cell using visual servoing. , 2014, , .   |     | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Quasi-optimal values in the Hamiltonian-based synchronization of chaotic systems. , 2014, , .                               |     | 0         |
| 38 | On the Synchronization of 1D and 2D Multi-scroll Chaotic Oscillators. Studies in Computational Intelligence, 2013, , 19-40. | 0.9 | 0         |
| 39 | Saturable absorption of SWCNTs photodeposited onto the core of an optical fiber. , 2014, , .                                |     | 0         |
| 40 | Comparative study of nonlinear absorption of ZnNPs and AgNPs photodeposited onto the core of an optical fiber. , 2016, , .  |     | 0         |
| 41 | Optical Response in Subwavelength Optical Fibers with Nanostructured Materials. , 2016, , .                                 |     | 0         |
| 42 | Design and Fabrication of Subwavelength Optical Fiber. , 2016, , .  |     | 0         |
| 43 | Behavioral Modeling of Chaos-Based Applications by Using Verilog-A. Studies in Computational Intelligence, 2017, , 553-579. | 0.9 | 0         |