Pablo I Fierens

List of Publications by Year
in descending order

52	339	933447 10	940533 16
papers	citations	h-index	g-index

54	54	54	265
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A generic model for the study of supercontinuum generation in graphene-covered nanowires. JPhys Photonics, 2022, 4, 015001.	4.6	2
2	Joint position and clock tracking of wireless nodes under mixed LOS-NLOS conditions. Physical Communication, 2022, 54, 101803.	2.1	1
3	Revisiting Soliton Dynamics in Fiber Optics Under Strict Photon-Number Conservation. IEEE Journal of Quantum Electronics, 2021, 57, 1-8.	1.9	3
4	A Direct Method for the Simultaneous Estimation of Self-Steepening and the Fractional Raman Contribution in Fiber Optics. IEEE Journal of Quantum Electronics, 2021, 57, 1-7.	1.9	2
5	Model for Frequency-Dependent Nonlinear Propagation in 2D-Decorated Nanowires. IEEE Journal of Quantum Electronics, 2021, 57, 1-8.	1.9	6
6	Joint position and clock tracking of wireless nodes. Computer Networks, 2021, 197, 108296.	5.1	1
7	Dispersive waves in optical fibers with a zero-nonlinearity wavelength. , 2021, , .		2
8	Soliton solutions and self-steepening in the photon-conserving nonlinear SchrÃ¶dinger equation. Waves in Random and Complex Media, 2020, , 1-17.	2.7	7
9	Guest Editorial Special Issue on Embedded Systems. IEEE Latin America Transactions, 2020, 18, 180-187.	1.6	0
10	A Literature Review on Embedded Systems. IEEE Latin America Transactions, 2020, 18, 188-205.	1.6	8
11	Probing Higher-Order Nonlinearities with Ultrashort Solitons. , 2020, , .		2
12	Photon-conserving generalized nonlinear SchrÃ¶dinger equation for frequency-dependent nonlinearities. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 445.	2.1	17
13	Modulation instability in waveguides with an arbitrary frequency-dependent nonlinear coefficient. Optics Letters, 2020, 45, 2498.	3.3	12
14	Measuring self-steepening with the photon-conserving nonlinear SchrÃ¶dinger equation. Optics Letters, 2020, 45, 4535.	3.3	11
15	Nonlinear optics in waveguides doped with dimers of metal nanoparticles. , 2020, , .		0
16	Narrowband and ultra-wideband modulation instability in nonlinear metamaterial waveguides. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3194.	2.1	2
17	Mimicking Spike-Timing-Dependent Plasticity with Emulated Memristors. , 2019, , .		2
18	On the Application of a Diffusive Memristor Compact Model to Neuromorphic Circuits. Materials, 2019, 12, 2260.	2.9	3

#	Article	IF	Citations
19	Enhanced Anti-stokes Raman Gain in Nonlinear Waveguides. Understanding Complex Systems, 2019, , 288-293.	0.6	0
20	Quasi-analytical Perturbation Analysis of the Generalized Nonlinear SchrÃ¶dinger Equation. Understanding Complex Systems, 2019, , 250-258.	0.6	0
21	Guest Editorial Special Issue on Embedded Systems. IEEE Latin America Transactions, 2019, 18, 180-187.	1.6	0
22	A higher-order perturbation analysis of the nonlinear SchrÃ¶dinger equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 72, 152-161.	3.3	1
23	Modified nonlinear SchrÃ¶dinger equation for frequency-dependent nonlinear profiles of arbitrary sign. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3139.	2.1	21
24	Simple method for estimating the fractional Raman contribution. Optics Letters, 2019, 44, 538.	3.3	2
25	A Literature Review on Embedded Systems. IEEE Latin America Transactions, 2019, 18, 188-205.	1.6	1
26	Fusion of magnetic and WiFi fingerprints for indoor positioning. , 2018, , .		1
27	Tunable Raman gain in mid-IR waveguides. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 95.	2.1	5
28	Anti-Stokes Raman gain enabled by modulation instability in mid-IR waveguides. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2828.	2.1	10
29	Clogging Transition of Vibration-Driven Vehicles Passing through Constrictions. Physical Review Letters, 2017, 119, 248301.	7.8	53
30	A Geometrical View of Scalar Modulation Instability in Optical Fibers. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	8
31	Simulation of pulse propagation in nonlinear optical fibers using GPUs. , 2016, , .		0
32	Analytical study of coherence in seeded modulation instability. Physical Review A, 2016, 94, .	2.5	10
33	Noise on resistive switching: a Fokkerâ€“Planck approach. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054043.	2.3	6
34	VANET for emergency vehicles: Preliminary results. , 2015, , .		2
35	Memristors under the influence of noise and temperature. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 187-191.	0.8	5
36	Experimental demonstration of a noise-tunable delay line with applications to phase synchronization. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 872-876.	3.3	2

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37	Thermal effects on the switching kinetics of silver/manganite memristive systems. Journal Physics D: Applied Physics, 2014, 47, 435304.	2.8	4
38	Recent Advances on Information Transmission and Storage Assisted by Noise. Understanding Complex Systems, 2014, , 181-191.	0.6	0
39	On the beneficial role of noise in resistive switching. Applied Physics Letters, 2013, 103, .	3.3	28
40	Numerical and experimental study of stochastic resistive switching. Physical Review E, 2013, 87, 012128.	2.1	12
41	On the effect of noise and electronics bandwidth on a stochastic-resonance memory device. , 2011, , .		0
42	Noise-assisted multibit storage device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3233-3236.	2.1	4
43	On the dynamics of a single-bit stochastic-resonance memory device. European Physical Journal B, 2010, 76, 49-55.	1.5	15
44	Experimental investigation of noise-assisted information transmission and storage via stochastic resonance. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1965-1970.	2.6	14
45	A memory device sustained by noise. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2207-2209.	2.1	17
46	An extension of chaotic probability models to real-valued variables. International Journal of Approximate Reasoning, 2009, 50, 627-641.	3.3	3
47	Performance robustness of a noise-assisted transmission line. Physica D: Nonlinear Phenomena, 2009, 238, 2138-2141.	2.8	8
48	A frequentist understanding of sets of measures. Journal of Statistical Planning and Inference, 2009, 139, 1879-1892.	0.6	7
49	Number of sensors versus time to detection in wildfires. International Journal of Wildland Fire, 2009, 18, 825.	2.4	7
50	TIME-DELAY PROPERTIES OF A STOCHASTIC-RESONANCE INFORMATION TRANSMISSION LINE. Fluctuation and Noise Letters, 2008, 08, L315-L321.	1.5	8
51	Interval-valued probability modeling of Internet traffic variables. , 0, , .		0
52	Dispersive waves and radiation trapping in optical fibers with a zero-nonlinearity wavelength. Waves in Random and Complex Media, 0, , 1-15.	2.7	1