

Pablo I Fierens

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/346954/publications.pdf>

Version: 2024-02-01

52
papers

339
citations

933447

10
h-index

940533

16
g-index

54
all docs

54
docs citations

54
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	Clogging Transition of Vibration-Driven Vehicles Passing through Constrictions. <i>Physical Review Letters</i> , 2017, 119, 248301.	7.8	53
2	On the beneficial role of noise in resistive switching. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	28
3	Modified nonlinear Schrödinger equation for frequency-dependent nonlinear profiles of arbitrary sign. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 3139.	2.1	21
4	A memory device sustained by noise. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2207-2209.	2.1	17
5	Photon-conserving generalized nonlinear Schrödinger equation for frequency-dependent nonlinearities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 445.	2.1	17
6	On the dynamics of a single-bit stochastic-resonance memory device. <i>European Physical Journal B</i> , 2010, 76, 49-55.	1.5	15
7	Experimental investigation of noise-assisted information transmission and storage via stochastic resonance. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 1965-1970.	2.6	14
8	Numerical and experimental study of stochastic resistive switching. <i>Physical Review E</i> , 2013, 87, 012128.	2.1	12
9	Modulation instability in waveguides with an arbitrary frequency-dependent nonlinear coefficient. <i>Optics Letters</i> , 2020, 45, 2498.	3.3	12
10	Measuring self-steepening with the photon-conserving nonlinear Schrödinger equation. <i>Optics Letters</i> , 2020, 45, 4535.	3.3	11
11	Analytical study of coherence in seeded modulation instability. <i>Physical Review A</i> , 2016, 94, .	2.5	10
12	Anti-Stokes Raman gain enabled by modulation instability in mid-IR waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2828.	2.1	10
13	TIME-DELAY PROPERTIES OF A STOCHASTIC-RESONANCE INFORMATION TRANSMISSION LINE. <i>Fluctuation and Noise Letters</i> , 2008, 08, L315-L321.	1.5	8
14	Performance robustness of a noise-assisted transmission line. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 2138-2141.	2.8	8
15	A Geometrical View of Scalar Modulation Instability in Optical Fibers. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	8
16	A Literature Review on Embedded Systems. <i>IEEE Latin America Transactions</i> , 2020, 18, 188-205.	1.6	8
17	A frequentist understanding of sets of measures. <i>Journal of Statistical Planning and Inference</i> , 2009, 139, 1879-1892.	0.6	7
18	Number of sensors versus time to detection in wildfires. <i>International Journal of Wildland Fire</i> , 2009, 18, 825.	2.4	7

#	ARTICLE	IF	CITATIONS
19	Soliton solutions and self-steepening in the photon-conserving nonlinear Schrödinger equation. <i>Waves in Random and Complex Media</i> , 2020, , 1-17.	2.7	7
20	Noise on resistive switching: a Fokker-Planck approach. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 054043.	2.3	6
21	Model for Frequency-Dependent Nonlinear Propagation in 2D-Decorated Nanowires. <i>IEEE Journal of Quantum Electronics</i> , 2021, 57, 1-8.	1.9	6
22	Memristors under the influence of noise and temperature. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 187-191.	0.8	5
23	Tunable Raman gain in mid-IR waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 95.	2.1	5
24	Noise-assisted multibit storage device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3233-3236.	2.1	4
25	Thermal effects on the switching kinetics of silver/manganite memristive systems. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 435304.	2.8	4
26	An extension of chaotic probability models to real-valued variables. <i>International Journal of Approximate Reasoning</i> , 2009, 50, 627-641.	3.3	3
27	On the Application of a Diffusive Memristor Compact Model to Neuromorphic Circuits. <i>Materials</i> , 2019, 12, 2260.	2.9	3
28	Revisiting Soliton Dynamics in Fiber Optics Under Strict Photon-Number Conservation. <i>IEEE Journal of Quantum Electronics</i> , 2021, 57, 1-8.	1.9	3
29	VANET for emergency vehicles: Preliminary results. , 2015, , .		2
30	Experimental demonstration of a noise-tunable delay line with applications to phase synchronization. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 872-876.	3.3	2
31	Mimicking Spike-Timing-Dependent Plasticity with Emulated Memristors. , 2019, , .		2
32	A Direct Method for the Simultaneous Estimation of Self-Steepening and the Fractional Raman Contribution in Fiber Optics. <i>IEEE Journal of Quantum Electronics</i> , 2021, 57, 1-7.	1.9	2
33	Probing Higher-Order Nonlinearities with Ultrashort Solitons. , 2020, , .		2
34	Simple method for estimating the fractional Raman contribution. <i>Optics Letters</i> , 2019, 44, 538.	3.3	2
35	Narrowband and ultra-wideband modulation instability in nonlinear metamaterial waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3194.	2.1	2
36	Dispersive waves in optical fibers with a zero-nonlinearity wavelength. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
37	A generic model for the study of supercontinuum generation in graphene-covered nanowires. JPhys Photonics, 2022, 4, 015001.	4.6	2
38	Fusion of magnetic and WiFi fingerprints for indoor positioning. , 2018, , .		1
39	A higher-order perturbation analysis of the nonlinear Schrödinger equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 72, 152-161.	3.3	1
40	Joint position and clock tracking of wireless nodes. Computer Networks, 2021, 197, 108296.	5.1	1
41	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
42	A Literature Review on Embedded Systems. IEEE Latin America Transactions, 2019, 18, 188-205.	1.6	1
43	Joint position and clock tracking of wireless nodes under mixed LOS-NLOS conditions. Physical Communication, 2022, 54, 101803.	2.1	1
44	Interval-valued probability modeling of Internet traffic variables. , 0, , .		0
45	On the effect of noise and electronics bandwidth on a stochastic-resonance memory device. , 2011, , .		0
46	Simulation of pulse propagation in nonlinear optical fibers using GPUs. , 2016, , .		0
47	Enhanced Anti-stokes Raman Gain in Nonlinear Waveguides. Understanding Complex Systems, 2019, , 288-293.	0.6	0
48	Quasi-analytical Perturbation Analysis of the Generalized Nonlinear Schrödinger Equation. Understanding Complex Systems, 2019, , 250-258.	0.6	0
49	Guest Editorial Special Issue on Embedded Systems. IEEE Latin America Transactions, 2019, 18, 180-187.	1.6	0
50	Guest Editorial Special Issue on Embedded Systems. IEEE Latin America Transactions, 2020, 18, 180-187.	1.6	0
51	Recent Advances on Information Transmission and Storage Assisted by Noise. Understanding Complex Systems, 2014, , 181-191.	0.6	0
52	Nonlinear optics in waveguides doped with dimers of metal nanoparticles. , 2020, , .		0