

Ramon Herrero

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

897
citations

16
h-index

27
g-index

130
ext. papers

1,199
ext. citations

2.9
avg, IF

3.94
L-index

#	Paper	IF	Citations
70	Experimental observation of the amplitude death effect in two coupled nonlinear oscillators. <i>Physical Review Letters</i> , 2000 , 84, 5312-5	7.4	133
69	Nondiffractive propagation of light in photonic crystals. <i>Physical Review E</i> , 2006 , 73, 016601	2.4	98
68	Subdiffractive band-edge solitons in Bose-Einstein condensates in periodic potentials. <i>Physical Review E</i> , 2006 , 73, 065603	2.4	46
67	Twelfold Quasiperiodic Patterns in a Nonlinear Optical System with Continuous Rotational Symmetry. <i>Physical Review Letters</i> , 1999 , 82, 4627-4630	7.4	40
66	Arresting soliton collapse in two-dimensional nonlinear Schrödinger systems via spatiotemporal modulation of the external potential. <i>Physical Review A</i> , 2007 , 75,	2.6	38
65	Second-harmonic parametric scattering in ferroelectric crystals with disordered nonlinear domain structures. <i>Optics Express</i> , 2007 , 15, 15868-77	3.3	36
64	Subdiffraction and spatial filtering due to periodic spatial modulation of the gain-loss profile. <i>Physical Review A</i> , 2009 , 80,	2.6	30
63	Two-dimensional complex parity-time-symmetric photonic structures. <i>Physical Review A</i> , 2015 , 91,	2.6	27
62	Light in materials with periodic gain-loss modulation on a wavelength scale. <i>Physical Review A</i> , 2010 , 82,	2.6	26
61	Beam shaping in spatially modulated broad-area semiconductor amplifiers. <i>Optics Letters</i> , 2012 , 37, 5253-5	3.5	24
60	Gluing bifurcations in optothermal nonlinear devices. <i>Physical Review E</i> , 1998 , 57, 5366-5377	2.4	20
59	Intrinsic beam shaping mechanism in spatially modulated broad area semiconductor amplifiers. <i>Applied Physics Letters</i> , 2013 , 103, 132101	3.4	19
58	All-Dielectric Self-Cloaked Structures. <i>ACS Photonics</i> , 2018 , 5, 2068-2073	6.3	17
57	Quantitative analysis of subdiffractive light propagation in photonic crystals. <i>Optics Communications</i> , 2007 , 269, 128-136	2	16
56	Homoclinic phenomena in opto-thermal bistability with localized absorption. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 85, 509-547	3.3	16
55	Homoclinic dynamics in experimental Shilnikov attractors. <i>Physical Review E</i> , 1996 , 53, 5627-5636	2.4	16
54	Stabilization of flat-mirror vertical-external-cavity surface-emitting lasers by spatiotemporal modulation of the pump profile. <i>Physical Review A</i> , 2015 , 92,	2.6	15

53	Suppression of modulation instability in broad area semiconductor amplifiers. <i>Optics Letters</i> , 2014 , 39, 5598-601	3	14
52	Subdiffractive light pulses in photonic crystals. <i>Physical Review E</i> , 2006 , 74, 016605	2.4	14
51	Locally parity-time-symmetric and globally parity-symmetric systems. <i>Physical Review A</i> , 2016 , 94,	2.6	13
50	Second-harmonic generation of narrow beams in subdiffractive photonic crystals. <i>Physical Review A</i> , 2008 , 78,	2.6	13
49	Equivalent low-order model for a nonlinear diffusion equation. <i>Physica D: Nonlinear Phenomena</i> , 1996 , 95, 107-127	3.3	13
48	Invisibility on demand based on a generalized Hilbert transform. <i>Physical Review A</i> , 2018 , 98,	2.6	12
47	Taming of Modulation Instability by Spatio-Temporal Modulation of the Potential. <i>Scientific Reports</i> , 2015 , 5, 13268	4.9	12
46	Efficient parametric amplification of narrow beams in photonic crystals. <i>Optics Letters</i> , 2007 , 32, 1992-4	3	12
45	Self-organized superlattice patterns with two slightly differing wave numbers. <i>Physical Review E</i> , 2003 , 67, 025203	2.4	11
44	Rössler chaos in opto-thermal bistable devices. <i>Optics Communications</i> , 1994 , 113, 324-334	2	11
43	Numerical and experimental demonstration of a wavelength demultiplexer design by point-defect cavity coupled to a tapered photonic crystal waveguide. <i>Optics Letters</i> , 2016 , 41, 119-22	3	10
42	Far-field narrowing in spatially modulated broad-area edge-emitting semiconductor amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 993	1.7	9
41	Interplay of dispersion and absorption in a new optical pattern-forming system. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 1999 , 1, 166-170		9
40	Homoclinic bifurcations in thermo-optical bistability with localized absorption. <i>Optics Communications</i> , 1991 , 82, 162-170	2	8
39	Nondiffractive-nondiffusive beams in complex crystals. <i>Physical Review A</i> , 2014 , 89,	2.6	7
38	Diffraction management and sub-diffractive solitons in periodically driven Bose-Einstein condensates. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 1326-1337	3.3	7
37	Full instability behavior of N-dimensional dynamical systems with a one-directional nonlinear vector field. <i>Physical Review E</i> , 2000 , 62, 333-48	2.4	7
36	Acoustically penetrable sonic crystals based on fluid-like scatterers. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 025501	3	6

35	Enhanced transmission band in periodic media with loss modulation. <i>Applied Physics Letters</i> , 2014 , 105, 204104	3.4	6
34	Beam shaping in two-dimensional metallic photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 686	1.7	6
33	Flat lensing by periodic loss-modulated materials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2684	1.7	6
32	Unlocked evanescent waves in periodic structures. <i>Optics Letters</i> , 2013 , 38, 1890-2	3	6
31	Ultrashort light pulses in photonic crystals in subdiffractive regimes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 1639	1.7	6
30	N-dimensional dynamical systems exploiting instabilities in full. <i>Chaos</i> , 2000 , 10, 760-770	3.3	6
29	Directionality fields generated by a local Hilbert transform. <i>Physical Review A</i> , 2018 , 97,	2.6	5
28	High-directional wave propagation in periodic loss modulated materials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012 , 10, 644-650	2.6	5
27	Stabilized narrow-beam emission from broad-area semiconductor lasers. <i>Physical Review A</i> , 2020 , 101,	2.6	4
26	Stabilization of broad-area semiconductor laser sources by simultaneous index and pump modulations. <i>Optics Letters</i> , 2018 , 43, 2511-2514	3	4
25	About the oscillatory possibilities of the dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 1358-1391	3.3	4
24	Self-collimation in PT-symmetric crystals. <i>Physical Review A</i> , 2017 , 95,	2.6	3
23	Towards observation of sub-diffractive pulse propagation in photonic crystals. <i>Optics Communications</i> , 2007 , 279, 377-383	2	3
22	Phase synchronization in bidirectionally coupled optothermal devices. <i>Physical Review E</i> , 2002 , 66, 036223	3.4	3
21	Experimental Analysis of Codimension-2 Bifurcations in a Periodically-Forced Opto-Thermal Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1998 , 08, 1413-1435	2	3
20	PT-symmetric Helmholtz resonator dipoles for sound directivity. <i>Physical Review B</i> , 2021 , 103,	3.3	3
19	Suppression of pattern-forming instabilities by genetic optimization. <i>Physical Review E</i> , 2016 , 94, 010202	2.4	2
18	Formation of X-pulses in periodically gain/loss modulated materials. <i>Optics Express</i> , 2012 , 20, 11271-6	3.3	2

17	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 19-24	3.8	2
16	Nonlinear oscillatory mixing in the generalized Landau scenario. <i>Physical Review E</i> , 2018 , 97, 052218	2.4	2
15	Axisymmetric photonic structures with PT-symmetry 2016 ,		1
14	Nondiffractive propagation of light in photonic crystals		1
13	Spatial filtering in edge-emitting lasers by intracavity chirped photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2856	1.7	1
12	Regularization of vertical-cavity surface-emitting laser emission by periodic non-Hermitian potentials. <i>Optics Letters</i> , 2019 , 44, 3948-3951	3	1
11	Stabilization of Broad Area Semiconductor Amplifiers by Spatially Modulated Potentials. <i>Springer Proceedings in Physics</i> , 2016 , 139-151	0.2	1
10	Translationally invariant metamirrors for spatial filtering of light beams. <i>Physical Review A</i> , 2020 , 102,	2.6	1
9	Restricted Hilbert Transform for Non-Hermitian Management of Fields. <i>Physical Review Applied</i> , 2020 , 14,	4.3	1
8	Suppression of modulation instability in pump modulated flat-mirror VECSELs 2016 ,		1
7	Non-Hermitian arrangement for stable semiconductor laser arrays. <i>Optics Express</i> , 2021 , 29, 23997-24009	3	1
6	Inverse-design of non-Hermitian potentials for on-demand asymmetric reflectivity. <i>Optics Express</i> , 2021 , 29, 17001-17010	3.3	0
5	Chiral Modes in 2D PT-Symmetric Nanostructures. <i>Springer Proceedings in Physics</i> , 2016 , 125-138	0.2	
4	Anisotropic subdiffractive solitons. <i>Chaos, Solitons and Fractals</i> , 2011 , 44, 1070-1074	9.3	
3	Anomalous frequency pulling in the photorefractive oscillators. <i>Physical Review A</i> , 1999 , 60, 1679-1686	2.6	
2	Flip-flop operation in opto-thermal bistable devices with localized absorption. <i>Fiber and Integrated Optics</i> , 1993 , 12, 287-300	0.8	
1	Nonlinear complexification of periodic orbits in the generalized Landau scenario.. <i>Chaos</i> , 2022 , 32, 023116	3.6	