

Ramon Herrero

List of Publications by Year in Descending Order

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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	Nonlinear complexification of periodic orbits in the generalized Landau scenario.. <i>Chaos</i> , 2022 , 32, 0231163	3.3	3
69	PT-symmetric Helmholtz resonator dipoles for sound directivity. <i>Physical Review B</i> , 2021 , 103,	3.3	3
68	Inverse-design of non-Hermitian potentials for on-demand asymmetric reflectivity. <i>Optics Express</i> , 2021 , 29, 17001-17010	3.3	0
67	Non-Hermitian arrangement for stable semiconductor laser arrays. <i>Optics Express</i> , 2021 , 29, 23997-24009	3.3	1
66	Stabilized narrow-beam emission from broad-area semiconductor lasers. <i>Physical Review A</i> , 2020 , 101,	2.6	4
65	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
64	Translationally invariant metamirrors for spatial filtering of light beams. <i>Physical Review A</i> , 2020 , 102,	2.6	1
63	Restricted Hilbert Transform for Non-Hermitian Management of Fields. <i>Physical Review Applied</i> , 2020 , 14,	4.3	1
62	Regularization of vertical-cavity surface-emitting laser emission by periodic non-Hermitian potentials. <i>Optics Letters</i> , 2019 , 44, 3948-3951	3	1
61	Directionality fields generated by a local Hilbert transform. <i>Physical Review A</i> , 2018 , 97,	2.6	5
60	All-Dielectric Self-Cloaked Structures. <i>ACS Photonics</i> , 2018 , 5, 2068-2073	6.3	17
59	Invisibility on demand based on a generalized Hilbert transform. <i>Physical Review A</i> , 2018 , 98,	2.6	12
58	Stabilization of broad-area semiconductor laser sources by simultaneous index and pump modulations. <i>Optics Letters</i> , 2018 , 43, 2511-2514	3	4
57	Nonlinear oscillatory mixing in the generalized Landau scenario. <i>Physical Review E</i> , 2018 , 97, 052218	2.4	2
56	Self-collimation in PT-symmetric crystals. <i>Physical Review A</i> , 2017 , 95,	2.6	3
55	Suppression of pattern-forming instabilities by genetic optimization. <i>Physical Review E</i> , 2016 , 94, 010202	2.4	2
54	Axisymmetric photonic structures with PT-symmetry 2016 ,		1

53	Locally parity-time-symmetric and globally parity-symmetric systems. <i>Physical Review A</i> , 2016 , 94,	2.6	13
52	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
51	Chiral Modes in 2D PT-Symmetric Nanostructures. <i>Springer Proceedings in Physics</i> , 2016 , 125-138	0.2	
50	Stabilization of Broad Area Semiconductor Amplifiers by Spatially Modulated Potentials. <i>Springer Proceedings in Physics</i> , 2016 , 139-151	0.2	1
49	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 19-24	3.8	2
48	Suppression of modulation instability in pump modulated flat-mirror VECSELs 2016 ,		1
47	Two-dimensional complex parity-time-symmetric photonic structures. <i>Physical Review A</i> , 2015 , 91,	2.6	27
46	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
45	Acoustically penetrable sonic crystals based on fluid-like scatterers. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 025501	3	6
44	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
43	Taming of Modulation Instability by Spatio-Temporal Modulation of the Potential. <i>Scientific Reports</i> , 2015 , 5, 13268	4.9	12
42	Enhanced transmission band in periodic media with loss modulation. <i>Applied Physics Letters</i> , 2014 , 105, 204104	3.4	6
41	Nondiffractive-nondiffusive beams in complex crystals. <i>Physical Review A</i> , 2014 , 89,	2.6	7
40	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
39	Suppression of modulation instability in broad area semiconductor amplifiers. <i>Optics Letters</i> , 2014 , 39, 5598-601	3	14
38	Intrinsic beam shaping mechanism in spatially modulated broad area semiconductor amplifiers. <i>Applied Physics Letters</i> , 2013 , 103, 132101	3.4	19
37	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
36	Unlocked evanescent waves in periodic structures. <i>Optics Letters</i> , 2013 , 38, 1890-2	3	6

35	Beam shaping in spatially modulated broad-area semiconductor amplifiers. <i>Optics Letters</i> , 2012 , 37, 5253-5	3.5	24
34	About the oscillatory possibilities of the dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 2012 , 241, 1358-1391	3.3	4
33	High-directional wave propagation in periodic loss modulated materials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012 , 10, 644-650	2.6	5
32	Formation of X-pulses in periodically gain/loss modulated materials. <i>Optics Express</i> , 2012 , 20, 11271-6	3.3	2
31	Anisotropic subdiffractive solitons. <i>Chaos, Solitons and Fractals</i> , 2011 , 44, 1070-1074	9.3	
30	Light in materials with periodic gain-loss modulation on a wavelength scale. <i>Physical Review A</i> , 2010 , 82,	2.6	26
29	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
28	Subdiffraction and spatial filtering due to periodic spatial modulation of the gain-loss profile. <i>Physical Review A</i> , 2009 , 80,	2.6	30
27	Second-harmonic generation of narrow beams in subdiffractive photonic crystals. <i>Physical Review A</i> , 2008 , 78,	2.6	13
26	Quantitative analysis of subdiffractive light propagation in photonic crystals. <i>Optics Communications</i> , 2007 , 269, 128-136	2	16
25	Towards observation of sub-diffractive pulse propagation in photonic crystals. <i>Optics Communications</i> , 2007 , 279, 377-383	2	3
24	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
23	Efficient parametric amplification of narrow beams in photonic crystals. <i>Optics Letters</i> , 2007 , 32, 1992-4	3	12
22	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
21	Second-harmonic parametric scattering in ferroelectric crystals with disordered nonlinear domain structures. <i>Optics Express</i> , 2007 , 15, 15868-77	3.3	36
20	Subdiffractive light pulses in photonic crystals. <i>Physical Review E</i> , 2006 , 74, 016605	2.4	14
19	Subdiffractive band-edge solitons in Bose-Einstein condensates in periodic potentials. <i>Physical Review E</i> , 2006 , 73, 065603	2.4	46
18	Nondiffractive propagation of light in photonic crystals. <i>Physical Review E</i> , 2006 , 73, 016601	2.4	98

17	Self-organized superlattice patterns with two slightly differing wave numbers. <i>Physical Review E</i> , 2003 , 67, 025203	2.4	11
16	Phase synchronization in bidirectionally coupled optothermal devices. <i>Physical Review E</i> , 2002 , 66, 036223	2.4	3
15	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
14	N-dimensional dynamical systems exploiting instabilities in full. <i>Chaos</i> , 2000 , 10, 760-770	3.3	6
13	Experimental observation of the amplitude death effect in two coupled nonlinear oscillators. <i>Physical Review Letters</i> , 2000 , 84, 5312-5	7.4	133
12	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
11	Anomalous frequency pulling in the photorefractive oscillators. <i>Physical Review A</i> , 1999 , 60, 1679-1686	2.6	
10	Twelvefold Quasiperiodic Patterns in a Nonlinear Optical System with Continuous Rotational Symmetry. <i>Physical Review Letters</i> , 1999 , 82, 4627-4630	7.4	40
9	Gluing bifurcations in optothermal nonlinear devices. <i>Physical Review E</i> , 1998 , 57, 5366-5377	2.4	20
8	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
7	Equivalent low-order model for a nonlinear diffusion equation. <i>Physica D: Nonlinear Phenomena</i> , 1996 , 95, 107-127	3.3	13
6	Homoclinic dynamics in experimental Shilnikov attractors. <i>Physical Review E</i> , 1996 , 53, 5627-5636	2.4	16
5	Homoclinic phenomena in opto-thermal bistability with localized absorption. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 85, 509-547	3.3	16
4	Rössler chaos in opto-thermal bistable devices. <i>Optics Communications</i> , 1994 , 113, 324-334	2	11
3	Flip-flop operation in opto-thermal bistable devices with localized absorption. <i>Fiber and Integrated Optics</i> , 1993 , 12, 287-300	0.8	
2	Homoclinic bifurcations in thermo-optical bistability with localized absorption. <i>Optics Communications</i> , 1991 , 82, 162-170	2	8
1	Nondiffractive propagation of light in photonic crystals		1