Yannis Kominis

List of Publications by Year
in descending order

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92	1,233	331670	377865
papers	citations	21 h-index	34 g-index

93	93	93	1203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
2	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
3	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
4	Power dependent soliton location and stability in complex photonic structures. Optics Express, 2008, 16, 12124.	3.4	68
5	Lattice solitons in self-defocusing optical media: analytical solutions of the nonlinear Kronig-Penney model. Optics Letters, 2006, 31, 2888.	3.3	56
6	Analytical solitary wave solutions of the nonlinear Kronig-Penney model in photonic structures. Physical Review E, 2006, 73, 066619.	2.1	55
7	Surface solitons in waveguide arrays: Analytical solutions. Optics Express, 2007, 15, 10041.	3.4	47
8	Scattering of radio frequency waves by blobs in tokamak plasmas. Physics of Plasmas, 2013, 20, .	1.9	43
9	Controllable asymmetric phase-locked states of the fundamental active photonic dimer. Physical Review A, 2017, 96, .	2.5	37
10	Power-Dependent Reflection, Transmission, and Trapping Dynamics of Lattice Solitons at Interfaces. Physical Review Letters, 2009, 102, 133903.	7.8	34
11	Enhanced stability, bistability, and exceptional points in saturable active photonic couplers. Physical Review A, 2019, 100, .	2.5	33
12	Kinetic Theory for Distribution Functions of Wave-Particle Interactions in Plasmas. Physical Review Letters, 2010, 104, 235001.	7.8	32
13	Fokkerâ€“Planck description of the scattering of radio frequency waves at the plasma edge. Physics of Plasmas, 2010, 17, .	1.9	32
14	Interlaced linear-nonlinear optical waveguide arrays. Optics Express, 2008, 16, 18296.	3.4	30
15	Power- and momentum-dependent soliton dynamics in lattices with longitudinal modulation. Physical Review A, 2011, 84, .	2.5	29
16	The Asymmetric Active Coupler: Stable Nonlinear Supermodes and Directed Transport. Scientific Reports, 2016, 6, 33699.	3.3	29
17	Stability through asymmetry: Modulationally stable nonlinear supermodes of asymmetric non-Hermitian optical couplers. Physical Review A, 2017, 95, .	2.5	29
18	Exceptional points in two dissimilar coupled diode lasers. Applied Physics Letters, 2018, 113, .	3.3	26

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19	Dynamic power balance for nonlinear waves in unbalanced gain and loss landscapes. Physical Review A, 2015, 92, .	2.5	24
20	Soliton dynamics in symmetric and non-symmetric complex potentials. Optics Communications, 2015, 334, 265-272.	2.1	23
21	Spectral signatures of exceptional points and bifurcations in the fundamental active photonic dimer. Physical Review A, 2017, 96, .	2.5	23
22	Continuous-wave-controlled steering of spatial solitons. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 562.	2.1	20
23	Breathers in a nonautonomous Toda lattice with pulsating coupling. Physical Review E, 2010, 81, 066601.	2.1	17
24	Quasilinear theory of electron transport by radio frequency waves and nonaxisymmetric perturbations in toroidal plasmas. Physics of Plasmas, 2008, 15, 122501.	1.9	15
25	Bright, dark, antidark, and kink solitons in media with periodically alternating sign of nonlinearity. Physical Review A, 2013, 87, .	2.5	15
26	ANALYTICAL SOLUTIONS OF SYSTEMS WITH PIECEWISE LINEAR DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 509-518.	1.7	14
27	Continuous families of solitary waves in non-symmetric complex potentials: A Melnikov theory approach. Chaos, Solitons and Fractals, 2019, 118, 222-233.	5.1	14
28	Continuous-wave-controlled nonlinear x-wave generation. Optics Letters, 2005, 30, 2924.	3.3	13
29	Radically tunable ultrafast photonic oscillators via differential pumping. Journal of Applied Physics, 2020, 127, .	2.5	12
30	Soliton dynamics and interactions in dynamically photoinduced lattices. Physical Review E, 2006, 74, 036613.	2.1	10
31	Dissipative soliton acceleration in nonlinear optical lattices. Optics Express, 2012, 20, 18165.	3.4	10
32	Canonical perturbation theory for complex electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 113102.	1.9	9
33	Nonlinear theory of cyclotron resonant wave-particle interactions: Analytical results beyond the quasilinear approximation. Physical Review E, 2008, 77, 016404.	2.1	9
34	Gain-controlled dissipative soliton routing in optical lattices. Physical Review A, 2012, 85, .	2.5	9
35	Antiresonances and Ultrafast Resonances in a Twin Photonic Oscillator. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	8
36	Continuous wave-controlled shape and chirp oscillations of optical solitons. Optics Communications, 2004, 234, 193-202.	2.1	7

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37	Optimal multidimensional solitary wave steering. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1360.	2.1	7
38	Dark soliton dynamics and interactions in continuous-wave-induced lattices. Physical Review E, 2007, 76, 046609.	2.1	7
39	Modelling of the effect of ELMs on fuel retention at the bulk W divertor of JET. Nuclear Materials and Energy, 2019, 19, 397-402.	1.3	7
40	Chaotic electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 043104.	1.9	6
41	Hamiltonian map description of electron dynamics in gyrotrons. IEEE Transactions on Plasma Science, 2006, 34, 673-680.	1.3	6
42	The Hamiltonian perturbation approach of two interacting nonlinear waves or solitary pulses in an optical coupler. Physica D: Nonlinear Phenomena, 2002, 173, 204-225.	2.8	5
43	Transient Dynamics of Charged Particles Interacting with Localized Waves of Continuous Spectra. Physical Review Letters, 2006, 96, 025002.	7.8	5
44	Isochrons, phase response and synchronization dynamics of tunable photonic oscillators. Physical Review Research, 2022, 4, .	3.6	5
45	Regular and chaotic dynamics of periodically amplified picosecond solitons. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1746.	2.1	4
46	Electron dynamics in the process of mode switching in gyrotrons. Physics of Plasmas, 2009, 16, .	1.9	4
47	Interaction of charged particles with localized electrostatic waves in a magnetized plasma. Physical Review E, 2012, 85, 016404.	2.1	4
48	Solitary wave formation under the interplay between spatial inhomogeneity and nonlocality. Physical Review E, 2019, 100, 052209.	2.1	4
49	Explicit near-symplectic mappings of Hamiltonian systems with Lie-generating functions. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 115202.	2.1	3
50	Spatiotemporal interaction of optical beams in bidispersive media. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1479.	2.1	3
51	Scattering of ECRF waves by edge density blobs and fluctuations in tokamak plasmas. EPJ Web of Conferences, 2012, 32, 01003.	0.3	3
52	Nonlinear mode investigation in optical pulse propagation under periodic amplification and filtering. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 545.	2.1	2
53	SOLITARY WAVE INTERACTIONS WITH CONTINUOUS WAVES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1753-1764.	1.7	2
54	Beam steering via peak power decay in nonlinear waveguide arrays. New Journal of Physics, 2013, 15, 093038.	2.9	2

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55	Parametric control of self-sustained and self-modulated optomechanical oscillations. Physical Review A, 2021, 103, .	2.5	2
56	Analytical calculation of the orbital spectrum of the guiding centre motion in axisymmetric magnetic fields. Journal of Plasma Physics, 2021, 87, .	2.1	2
57	Dynamics and Output Momentum Spectrum of Electrons Under Harmonic Resonance in Gyrotron Resonators. AIP Conference Proceedings, 2006, , .	0.4	1
58	Linear and nonlinear coupling properties of a novel multicore circular dielectric waveguide. Optics Communications, 2007, 274, 85-93.	2.1	1
59	Quasilinear theory revisited: general kinetic formulation of waveâ€“particle interactions in plasmas. Plasma Physics and Controlled Fusion, 2010, 52, 124022.	2.1	1
60	Heating of ions by high frequency electromagnetic waves in magnetized plasmas. Physics of Plasmas, 2013, 20, 072507.	1.9	1
61	Stability and dynamics of nonautonomous systems with pulsed nonlinearity. Physical Review E, 2013, 88, 042924.	2.1	1
62	Solitary wave dynamics in transversely and longitudinally modulated nonlocal media. Optics Communications, 2013, 305, 82-90.	2.1	1
63	Spatial control of localized oscillations in arrays of coupled laser dimers. Physical Review E, 2020, 102, 012201.	2.1	1
64	Ten-Fold Enhancement in the Small Signal Modulation of Differentially Pumped Coupled Quantum Well Lasers. , 2018, , .		1
65	Publisher's Note: Analytical solitary wave solutions of the nonlinear Kronig-Penney model in photonic structures [Phys. Rev. E 73, 066619 (2006)]. Physical Review E, 2006, 74, .	2.1	0
66	Soliton dynamics and interactions in dynamically photo-induced lattices. , 2006, 6187, 359.		0
67	Numerical Study of the Hamiltonian Gyrotron Map. , 2006, , .		0
68	<title>Three-dimensional vortex solitons in self-defocusing media</title>. , 2007, , .		0
69	Dark solitary vortices in defocusing media. , 2007, , .		0
70	Surface lattice solitons: analytical solutions. , 2007, , .		0
71	Dark soliton dynamics and interactions in dynamically photo-induced lattices: interaction with a continuous wave. , 2007, , .		0
72	Investigation of spatiotemporal optical beam reallocation. , 2007, , .		0

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73	Discrete X-wave-like spatio-temporal structures in one-dimensional nonlinear liquid crystal waveguide arrays. , 2007, , .		0
74	<title>Soliton dynamics and interactions in dynamically photo-induced lattices</title>. , 2007, , .		0
75	Spatiotemporal pattern formation in slab nematic liquid crystal cells. , 2007, , .		0
76	Dynamics of solitary waves in nonlinear media with Bragg gratings. , 2007, , .		0
77	Electron dynamics in the process of mode switching in gyrotrons. , 2008, , .		0
78	Publisherâ€™s Note: Power-Dependent Reflection, Transmission, and Trapping Dynamics of Lattice Solitons at Interfaces [Phys. Rev. Lett.102, 133903 (2009)]. Physical Review Letters, 2009, 102, .	7.8	0
79	Electron Transport by Radio Frequency Waves in Tokamak Plasmas. , 2009, , .		0
80	Scattering of Radio Frequency Waves by Edge Density Blobs in Tokamak Plasmas. AIP Conference Proceedings, 2011, , .	0.4	0
81	Publisher's Note: Gain-controlled dissipative soliton routing in optical lattices [Phys. Rev. A85, 063801 (2012)]. Physical Review A, 2012, 85, .	2.5	0
82	Analytical Solitary Wave Solutions of a Nonlinear Kronig-Penney Model for Photonic Structures Consisting of Linear and Nonlinear Layers. Progress in Optical Science and Photonics, 2012, , 201-226.	0.5	0
83	Nonparaxial traveling solitary waves in layered nonlinear media. Physical Review A, 2013, 87, .	2.5	0
84	Soliton dynamics in complex potentials. Journal of Physics: Conference Series, 2015, 574, 012028.	0.4	0
85	Optical Meta-Molecules for Non-Hermitian Photonics. , 2018, , .		0
86	Basins of Attraction in Asymmetric Photonic Couplers. , 2019, , .		0
87	Spatio-temporal reallocation and evolution patterns of interacting beams in nonlinear bi-dispersive media. , 2005, , .		0
88	Calculation of optical properties of a composite dielectric ridged waveguide. , 2005, , .		0
89	Spectral Line Shape and Modulation Response of Asymmetric Non-Hermitian Photonic Meta-Molecules. , 2018, , .		0
90	Antiresonances and Ultrafast Resonances in Coupled Semiconductor Lasers. , 2019, , .		0

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91	Abundance of Exceptional Points in Two Dissimilar Coupled Diode Lasers. , 2019, , .		0
92	Spectral Degeneracies in Optically Injected Quantum Well Lasers. , 2019, , .		0