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	Isochrons, phase response and synchronization dynamics of tunable photonic oscillators. Physical Review Research, 2022, 4, .	3.6	5
2	Parametric control of self-sustained and self-modulated optomechanical oscillations. Physical Review A, 2021, 103, .	2.5	2
3	Analytical calculation of the orbital spectrum of the guiding centre motion in axisymmetric magnetic fields. Journal of Plasma Physics, 2021, 87, .	2.1	2
4	Spatial control of localized oscillations in arrays of coupled laser dimers. Physical Review E, 2020, 102, 012201.	2.1	1
5	Radically tunable ultrafast photonic oscillators via differential pumping. Journal of Applied Physics, 2020, 127, .	2.5	12
6	Basins of Attraction in Asymmetric Photonic Couplers. , 2019, , .		0
7	Enhanced stability, bistability, and exceptional points in saturable active photonic couplers. Physical Review A, 2019, 100, .	2.5	33
8	Antiresonances and Ultrafast Resonances in a Twin Photonic Oscillator. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	8
9	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
10	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
11	Solitary wave formation under the interplay between spatial inhomogeneity and nonlocality. Physical Review E, 2019, 100, 052209.	2.1	4
12	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
13	Antiresonances and Ultrafast Resonances in Coupled Semiconductor Lasers. , 2019, , .		0
14	Abundance of Exceptional Points in Two Dissimilar Coupled Diode Lasers. , 2019, , .		0
15	Spectral Degeneracies in Optically Injected Quantum Well Lasers. , 2019, , .		0
16	Exceptional points in two dissimilar coupled diode lasers. Applied Physics Letters, 2018, 113, .	3.3	26
17	Optical Meta-Molecules for Non-Hermitian Photonics. , 2018, , .		0
18	Spectral Line Shape and Modulation Response of Asymmetric Non-Hermitian Photonic Meta-Molecules. , 2018, , .		0

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19	Ten-Fold Enhancement in the Small Signal Modulation of Differentially Pumped Coupled Quantum Well Lasers. , 2018, , .		1
20	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
21	Controllable asymmetric phase-locked states of the fundamental active photonic dimer. Physical Review A, 2017, 96, .	2.5	37
22	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
23	Spectral signatures of exceptional points and bifurcations in the fundamental active photonic dimer. Physical Review A, 2017, 96, .	2.5	23
24	Stability through asymmetry: Modulationally stable nonlinear supermodes of asymmetric non-Hermitian optical couplers. Physical Review A, 2017, 95, .	2.5	29
25	The Asymmetric Active Coupler: Stable Nonlinear Supermodes and Directed Transport. Scientific Reports, 2016, 6, 33699.	3.3	29
26	Dynamic power balance for nonlinear waves in unbalanced gain and loss landscapes. Physical Review A, 2015, 92, .	2.5	24
27	Soliton dynamics in complex potentials. Journal of Physics: Conference Series, 2015, 574, 012028.	0.4	0
28	Soliton dynamics in symmetric and non-symmetric complex potentials. Optics Communications, 2015, 334, 265-272.	2.1	23
29	Heating of ions by high frequency electromagnetic waves in magnetized plasmas. Physics of Plasmas, 2013, 20, 072507.	1.9	1
30	Stability and dynamics of nonautonomous systems with pulsed nonlinearity. Physical Review E, 2013, 88, 042924.	2.1	1
31	Nonparaxial traveling solitary waves in layered nonlinear media. Physical Review A, 2013, 87, .	2.5	0
32	Bright, dark, antidark, and kink solitons in media with periodically alternating sign of nonlinearity. Physical Review A, 2013, 87, .	2.5	15
33	Solitary wave dynamics in transversely and longitudinally modulated nonlocal media. Optics Communications, 2013, 305, 82-90.	2.1	1
34	Beam steering via peak power decay in nonlinear waveguide arrays. New Journal of Physics, 2013, 15, 093038.	2.9	2
35	Scattering of radio frequency waves by blobs in tokamak plasmas. Physics of Plasmas, 2013, 20, .	1.9	43
36	Dissipative soliton acceleration in nonlinear optical lattices. Optics Express, 2012, 20, 18165.	3.4	10

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37	Interaction of charged particles with localized electrostatic waves in a magnetized plasma. Physical Review E, 2012, 85, 016404.	2.1	4
38	Publisher's Note: Gain-controlled dissipative soliton routing in optical lattices [Phys. Rev. A85, 063801 (2012)]. Physical Review A, 2012, 85, .	2.5	0
39	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
40	Gain-controlled dissipative soliton routing in optical lattices. Physical Review A, 2012, 85, .	2.5	9
41	Scattering of ECRF waves by edge density blobs and fluctuations in tokamak plasmas. EPJ Web of Conferences, 2012, 32, 01003.	0.3	3
42	Scattering of Radio Frequency Waves by Edge Density Blobs in Tokamak Plasmas. AIP Conference Proceedings, 2011, , .	0.4	0
43	Power- and momentum-dependent soliton dynamics in lattices with longitudinal modulation. Physical Review A, 2011, 84, .	2.5	29
44	Kinetic Theory for Distribution Functions of Wave-Particle Interactions in Plasmas. Physical Review Letters, 2010, 104, 235001.	7.8	32
45	Breathers in a nonautonomous Toda lattice with pulsating coupling. Physical Review E, 2010, 81, 066601.	2.1	17
46	Fokkerâ€“Planck description of the scattering of radio frequency waves at the plasma edge. Physics of Plasmas, 2010, 17, .	1.9	32
47	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
48	Quasilinear theory revisited: general kinetic formulation of waveâ€“particle interactions in plasmas. Plasma Physics and Controlled Fusion, 2010, 52, 124022.	2.1	1
49	Power-Dependent Reflection, Transmission, and Trapping Dynamics of Lattice Solitons at Interfaces. Physical Review Letters, 2009, 102, 133903.	7.8	34
50	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
51	Electron Transport by Radio Frequency Waves in Tokamak Plasmas. , 2009, , .		0
52	Spatiotemporal interaction of optical beams in bidispersive media. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1479.	2.1	3
53	Electron dynamics in the process of mode switching in gyrotrons. Physics of Plasmas, 2009, 16, .	1.9	4
54	Quasilinear theory of electron transport by radio frequency waves and nonaxisymmetric perturbations in toroidal plasmas. Physics of Plasmas, 2008, 15, 122501.	1.9	15

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55	Power dependent soliton location and stability in complex photonic structures. Optics Express, 2008, 16, 12124.	3.4	68
56	Interlaced linear-nonlinear optical waveguide arrays. Optics Express, 2008, 16, 18296.	3.4	30
57	Explicit near-symplectic mappings of Hamiltonian systems with Lie-generating functions. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 115202.	2.1	3
58	Electron dynamics in the process of mode switching in gyrotrons. , 2008, , .		0
59	Nonlinear theory of cyclotron resonant wave-particle interactions: Analytical results beyond the quasilinear approximation. Physical Review E, 2008, 77, 016404.	2.1	9
60	Dark soliton dynamics and interactions in continuous-wave-induced lattices. Physical Review E, 2007, 76, 046609.	2.1	7
61	<title>Three-dimensional vortex solitons in self-defocusing media</title>. , 2007, , .		0
62	Dark solitary vortices in defocusing media. , 2007, , .		0
63	Surface lattice solitons: analytical solutions. , 2007, , .		0
64	Dark soliton dynamics and interactions in dynamically photo-induced lattices: interaction with a continuous wave. , 2007, , .		0
65	Investigation of spatiotemporal optical beam reallocation. , 2007, , .		0
66	Discrete X-wave-like spatio-temporal structures in one-dimensional nonlinear liquid crystal waveguide arrays. , 2007, , .		0
67	<title>Soliton dynamics and interactions in dynamically photo-induced lattices</title>. , 2007, , .		0
68	Spatiotemporal pattern formation in slab nematic liquid crystal cells. , 2007, , .		0
69	Surface solitons in waveguide arrays: Analytical solutions. Optics Express, 2007, 15, 10041.	3.4	47
70	Dynamics of solitary waves in nonlinear media with Bragg gratings. , 2007, , .		0
71	Linear and nonlinear coupling properties of a novel multicore circular dielectric waveguide. Optics Communications, 2007, 274, 85-93.	2.1	1
72	Analytical solitary wave solutions of the nonlinear Kronig-Penney model in photonic structures. Physical Review E, 2006, 73, 066619.	2.1	55

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73	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
74	Lattice solitons in self-defocusing optical media: analytical solutions of the nonlinear Kronig-Penney model. Optics Letters, 2006, 31, 2888.	3.3	56
75	Dynamics and Output Momentum Spectrum of Electrons Under Harmonic Resonance in Gyrotron Resonators. AIP Conference Proceedings, 2006, , .	0.4	1
76	Soliton dynamics and interactions in dynamically photo-induced lattices. , 2006, 6187, 359.		0
77	Hamiltonian map description of electron dynamics in gyrotrons. IEEE Transactions on Plasma Science, 2006, 34, 673-680.	1.3	6
78	Numerical Study of the Hamiltonian Gyrotron Map. , 2006, , .		0
79	Transient Dynamics of Charged Particles Interacting with Localized Waves of Continuous Spectra. Physical Review Letters, 2006, 96, 025002.	7.8	5
80	Soliton dynamics and interactions in dynamically photoinduced lattices. Physical Review E, 2006, 74, 036613.	2.1	10
81	SOLITARY WAVE INTERACTIONS WITH CONTINUOUS WAVES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1753-1764.	1.7	2
82	Chaotic electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 043104.	1.9	6
83	Optimal multidimensional solitary wave steering. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1360.	2.1	7
84	Continuous-wave-controlled nonlinear x-wave generation. Optics Letters, 2005, 30, 2924.	3.3	13
85	Canonical perturbation theory for complex electron dynamics in gyrotron resonators. Physics of Plasmas, 2005, 12, 113102.	1.9	9
86	Spatio-temporal reallocation and evolution patterns of interacting beams in nonlinear bi-dispersive media. , 2005, , .		0
87	Calculation of optical properties of a composite dielectric ridged waveguide. , 2005, , .		0
88	Continuous wave-controlled shape and chirp oscillations of optical solitons. Optics Communications, 2004, 234, 193-202.	2.1	7
89	Continuous-wave-controlled steering of spatial solitons. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 562.	2.1	20
90	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

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91	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
92	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