Boris A Kalinikos

List of Publications by Year
in descending order

59	1,654	257450 24	315739 38
papers	citations	h-index	g-index

59	59	59	966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A spin-wave logic gate based on a width-modulated dynamic magnonic crystal. Applied Physics Letters, 2015, 106, .	3.3	104
2	Experimental observation of symmetry-breaking nonlinear modes in an active ring. Nature, 2003, 426, 159-162.	27.8	98
3	Multifunctional nonlinear magnonic devices for microwave signal processing. Applied Physics Letters, 2010, 96, .	3.3	87
4	Self-Generation of Fundamental Dark Solitons in Magnetic Films. Physical Review Letters, 2000, 84, 4697-4700.	7.8	79
5	Self-Generation of Microwave Magnetic Envelope Soliton Trains in Yttrium Iron Garnet Thin Films. Physical Review Letters, 1998, 80, 4301-4304.	7.8	66
6	Observation of Spin-Wave Soliton Fractals in Magnetic Film Active Feedback Rings. Physical Review Letters, 2006, 96, 187202.	7.8	56
7	Self-Generation of Chaotic Solitary Spin Wave Pulses in Magnetic Film Active Feedback Rings. Physical Review Letters, 2005, 95, 237202.	7.8	55
8	Amplification of Microwave Magnetic Envelope Solitons in Thin Yttrium Iron Garnet Films by Parallel Pumping. Physical Review Letters, 1998, 80, 1976-1979.	7.8	53
9	Formation of gap solitons in ferromagnetic films with a periodic metal grating. Physical Review B, 2010, 81, .	3.2	52
10	Nonlinear damping of high-power magnetostatic waves in yttriumâ€“ironâ€“garnet films. Journal of Applied Physics, 2004, 95, 6294-6301.	2.5	46
11	Excitation of bright and dark envelope solitons for magnetostatic waves with attractive nonlinearity. Physical Review B, 2005, 71, .	3.2	45
12	Decay Free Microwave Magnetic Envelope Soliton Pulse Trains in Yttrium Iron Garnet Thin Films. Physical Review Letters, 1997, 78, 2827-2830.	7.8	43
13	Generation of Dark and Bright Spin Wave Envelope Soliton Trains through Self-Modulational Instability in Magnetic Films. Physical Review Letters, 2004, 93, 157207.	7.8	41
14	Multifunctional dual-tunable low loss ferrite-ferroelctric heterostructures for microwave devices. Applied Physics Letters, 2007, 91, .	3.3	40
15	A microwave nonlinear phase shifter. Applied Physics Letters, 2008, 93, .	3.3	39
16	Self-generation of bright microwave magnetic envelope soliton trains in ferrite films through frequency filtering. Applied Physics Letters, 2001, 78, 970-972.	3.3	38
17	Power-dependent switching of microwave signals in a ferrite-film nonlinear directional coupler. Applied Physics Letters, 2006, 89, 172511.	3.3	38
18	Three-magnon splitting and confluence processes for spin-wave excitations in yttrium iron garnet films: Wave vector selective Brillouin light scattering measurements and analysis. Physical Review B, 2009, 79, .	3.2	38

#	Article	IF	Citations
19	Random Generation of Coherent Solitary Waves from Incoherent Waves. Physical Review Letters, 2006, 96, 227202.	7.8	33
20	Reflection-less width-modulated magnonic crystal. Communications Physics, 2020, 3, .	5.3	32
21	Chaotic Spin-Wave Solitons in Magnetic Film Feedback Rings. Physical Review Letters, 2011, 107, 114102.	7.8	31
22	Excitation of Chaotic Spin Waves through Modulational Instability. Physical Review Letters, 2009, 102, 237203.	7.8	30
23	Dynamic electromagnonic crystal based on artificial multiferroic heterostructure. Communications Physics, 2019, 2, .	5.3	27
24	Ferrite-film nonlinear spin wave interferometer and its application for power-selective suppression of pulsed microwave signals. Applied Physics Letters, 2007, 90, 252510.	3.3	25
25	Observation of the Chaotic Spin-Wave Soliton Trains in Magnetic Films. Physical Review Letters, 2011, 106, 017201.	7.8	25
26	Magnetically Tunable Microwave Spin-Wave Photonic Oscillator. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	23
27	Spontaneous Exact Spin-Wave Fractals in Magnonic Crystals. Physical Review Letters, 2018, 121, 107204.	7.8	22
28	Nonlinear multiferroic phase shifters for microwave frequencies. Applied Physics Letters, 2014, 104, 052911.	3.3	20
29	Mapping of spin wave propagation in a one-dimensional magnonic crystal. Journal of Applied Physics, 2016, 120, 043901.	2.5	20
30	Excitation of bright and dark microwave magnetic envelope solitons in a resonant ring. Applied Physics Letters, 1999, 75, 265-267.	3.3	19
31	High-Q active ring microwave resonators based on ferrite-ferroelectric layered structures. Applied Physics Letters, 2008, 92, .	3.3	19
32	Excitation of Chaotic Spin Waves in Magnetic Film Feedback Rings through Three-Wave Nonlinear Interactions. Physical Review Letters, 2009, 102, 207202.	7.8	19
33	Nonlinear phase shifters based on forward volume spin waves. Journal of Applied Physics, 2013, 113, .	2.5	19
34	Dispersion characteristics of spin-electromagnetic waves in planar multiferroic structures. Journal of Applied Physics, 2015, 118, .	2.5	19
35	Spatial evolution of multipeaked microwave magnetic envelope solitons in yttrium iron garnet thin films. Physical Review B, 2004, 70, .	3.2	17
36	Nontrivial Nature and Penetration Depth of Topological Surface States in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SmB</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></mml:mrow> Thin Films. Physical Review Letters, 2018, 120, 207206.	7.8	17

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37	Fast pulse-excited spin waves in yttrium iron garnet thin films. Journal of Applied Physics, 2006, 99, 013901.	2.5	16
38	All-thin-film multilayered multiferroic structures with a slot-line for spin-electromagnetic wave devices. Applied Physics Letters, 2014, 104, .	3.3	16
39	Spatial recurrence for nonlinear magnetostatic wave excitations. Journal of Applied Physics, 2003, 94, 5877-5880.	2.5	14
40	Coupled Modulational Instability of Copropagating Spin Waves in Magnetic Thin Films. Physical Review Letters, 2008, 101, 027206.	7.8	13
41	Formation of Random Dark Envelope Solitons from Incoherent Waves. Physical Review Letters, 2010, 104, 037207.	7.8	13
42	Foldover of nonlinear eigenmodes in magnetic thin film based feedback rings. Physical Review B, 2017, 95, .	3.2	13
43	Tuning of chaotic surface spin waves in a magnetic-film feedback ring via the ring gain. Physical Review B, 2011, 83, .	3.2	12
44	Nonlinear Spin Waves in Magnetic Films and Structures. Solid State Physics, 2013, 64, 193-235.	0.5	12
45	Self-generation and management of spin-electromagnetic wave solitons and chaos. Applied Physics Letters, 2014, 104, .	3.3	12
46	Spin-electromagnetic waves in planar multiferroic multilayers. Journal of Applied Physics, 2017, 122, .	2.5	12
47	Formation of bright solitons from wave packets with repulsive nonlinearity. New Journal of Physics, 2014, 16, 053048.	2.9	11
48	Observation of spin-wave dark soliton pairs in yttrium iron garnet thin films. Physical Review B, 2015, 91, .	3.2	10
49	Theory of dual-tunable thin-film multiferroic magnonic crystal. Journal of Applied Physics, 2017, 122, .	2.5	10
50	Time-resolved study of nonlinear three-magnon processes in yttrium iron garnet films. Physical Review B, 2019, 99, .	3.2	10
51	Microwave Bistability in Active Ring Resonators With Dual Spin-Wave and Optical Nonlinearities. IEEE Magnetics Letters, 2018, 9, 1-4.	1.1	9
52	Spin-Wave Phase Shifters Utilizing Metalâ€“Insulator Transition. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	9
53	Theory of Spin-Electromagnetic Waves in Planar Thin-Film Multiferroic Heterostructures Based on a Coplanar Transmission Line and Its Application for Electromagnonic Crystals. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	8
54	Electromagnonic crystals based on ferriteâ€“ferroelectricâ€“ferrite multilayers. IET Microwaves, Antennas and Propagation, 2020, 14, 1304-1309.	1.4	7

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55	Metalâ€“insulator switching of vanadium dioxide for controlling spin-wave dynamics in magnonic crystals. Journal of Applied Physics, 2020, 128, .	2.5	6
56	Direct Brillouin light scattering observation of dark spin-wave envelope solitons in magnetic films. Physical Review B, 2013, 87, .	3.2	4
57	Pulsed spin wave propagation in a magnonic crystal. Journal of Applied Physics, 2019, 126, 083902.	2.5	2
58	Microwave Nonlinear Directional Coupler Based on Ferrite Film. , 2006, , .		0
59	Investigation of the dynamic regime in operation of spin-wave optoelectronic oscillators. , 2018, , .		0