

Boris A Kalinikos

List of Publications by Year in descending order

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59
papers

1,654
citations

257450

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59
docs citations

59
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-insulator switching of vanadium dioxide for controlling spin-wave dynamics in magnonic crystals. Journal of Applied Physics, 2020, 128, .	2.5	6
2	Reflection-less width-modulated magnonic crystal. Communications Physics, 2020, 3, .	5.3	32
3	Electromagnonic crystals based on ferrite-ferroelectric-ferrite multilayers. IET Microwaves, Antennas and Propagation, 2020, 14, 1304-1309.	1.4	7
4	Pulsed spin wave propagation in a magnonic crystal. Journal of Applied Physics, 2019, 126, 083902.	2.5	2
5	Time-resolved study of nonlinear three-magnon processes in yttrium iron garnet films. Physical Review B, 2019, 99, .	3.2	10
6	Dynamic electromagnonic crystal based on artificial multiferroic heterostructure. Communications Physics, 2019, 2, .	5.3	27
7	Investigation of the dynamic regime in operation of spin-wave optoelectronic oscillators. , 2018, , .		0
8	Microwave Bistability in Active Ring Resonators With Dual Spin-Wave and Optical Nonlinearities. IEEE Magnetics Letters, 2018, 9, 1-4.	1.1	9
9	Spin-Wave Phase Shifters Utilizing Metal-Insulator Transition. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	9
10	Spontaneous Exact Spin-Wave Fractals in Magnonic Crystals. Physical Review Letters, 2018, 121, 107204.	7.8	22
11	Nontrivial Nature and Penetration Depth of Topological Surface States in SmB_6 Thin Films. Physical Review Letters, 2018, 120, 207206.	7.8	17
12	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
13	Theory of dual-tunable thin-film multiferroic magnonic crystal. Journal of Applied Physics, 2017, 122, .	2.5	10
14	Foldover of nonlinear eigenmodes in magnetic thin film based feedback rings. Physical Review B, 2017, 95, .	3.2	13
15	Spin-electromagnetic waves in planar multiferroic multilayers. Journal of Applied Physics, 2017, 122, .	2.5	12
16	Mapping of spin wave propagation in a one-dimensional magnonic crystal. Journal of Applied Physics, 2016, 120, 043901.	2.5	20
17	Observation of spin-wave dark soliton pairs in yttrium iron garnet thin films. Physical Review B, 2015, 91, .	3.2	10
18	Dispersion characteristics of spin-electromagnetic waves in planar multiferroic structures. Journal of Applied Physics, 2015, 118, .	2.5	19

#	ARTICLE	IF	CITATIONS
19	A spin-wave logic gate based on a width-modulated dynamic magnonic crystal. Applied Physics Letters, 2015, 106, .	3.3	104
20	Magnetically Tunable Microwave Spin-Wave Photonic Oscillator. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	23
21	Formation of bright solitons from wave packets with repulsive nonlinearity. New Journal of Physics, 2014, 16, 053048.	2.9	11
22	Nonlinear multiferroic phase shifters for microwave frequencies. Applied Physics Letters, 2014, 104, 052911.	3.3	20
23	All-thin-film multilayered multiferroic structures with a slot-line for spin-electromagnetic wave devices. Applied Physics Letters, 2014, 104, .	3.3	16
24	Self-generation and management of spin-electromagnetic wave solitons and chaos. Applied Physics Letters, 2014, 104, .	3.3	12
25	Nonlinear Spin Waves in Magnetic Films and Structures. Solid State Physics, 2013, 64, 193-235.	0.5	12
26	Nonlinear phase shifters based on forward volume spin waves. Journal of Applied Physics, 2013, 113, .	2.5	19
27	Direct Brillouin light scattering observation of dark spin-wave envelope solitons in magnetic films. Physical Review B, 2013, 87, .	3.2	4
28	Chaotic Spin-Wave Solitons in Magnetic Film Feedback Rings. Physical Review Letters, 2011, 107, 114102.	7.8	31
29	Observation of the Chaotic Spin-Wave Soliton Trains in Magnetic Films. Physical Review Letters, 2011, 106, 017201.	7.8	25
30	Tuning of chaotic surface spin waves in a magnetic-film feedback ring via the ring gain. Physical Review B, 2011, 83, .	3.2	12
31	Formation of Random Dark Envelope Solitons from Incoherent Waves. Physical Review Letters, 2010, 104, 037207.	7.8	13
32	Multifunctional nonlinear magnonic devices for microwave signal processing. Applied Physics Letters, 2010, 96, .	3.3	87
33	Formation of gap solitons in ferromagnetic films with a periodic metal grating. Physical Review B, 2010, 81, .	3.2	52
34	Excitation of Chaotic Spin Waves through Modulational Instability. Physical Review Letters, 2009, 102, 237203.	7.8	30
35	Excitation of Chaotic Spin Waves in Magnetic Film Feedback Rings through Three-Wave Nonlinear Interactions. Physical Review Letters, 2009, 102, 207202.	7.8	19
36	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

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37	High-Q active ring microwave resonators based on ferrite-ferroelectric layered structures. Applied Physics Letters, 2008, 92, .	3.3	19
38	A microwave nonlinear phase shifter. Applied Physics Letters, 2008, 93, .	3.3	39
39	Coupled Modulational Instability of Copropagating Spin Waves in Magnetic Thin Films. Physical Review Letters, 2008, 101, 027206.	7.8	13
40	Multifunctional dual-tunable low loss ferrite-ferroelectric heterostructures for microwave devices. Applied Physics Letters, 2007, 91, .	3.3	40
41	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
42	Microwave Nonlinear Directional Coupler Based on Ferrite Film. , 2006, , .		0
43	Random Generation of Coherent Solitary Waves from Incoherent Waves. Physical Review Letters, 2006, 96, 227202.	7.8	33
44	Power-dependent switching of microwave signals in a ferrite-film nonlinear directional coupler. Applied Physics Letters, 2006, 89, 172511.	3.3	38
45	Fast pulse-excited spin waves in yttrium iron garnet thin films. Journal of Applied Physics, 2006, 99, 013901.	2.5	16
46	Observation of Spin-Wave Soliton Fractals in Magnetic Film Active Feedback Rings. Physical Review Letters, 2006, 96, 187202.	7.8	56
47	Excitation of bright and dark envelope solitons for magnetostatic waves with attractive nonlinearity. Physical Review B, 2005, 71, .	3.2	45
48	Self-Generation of Chaotic Solitary Spin Wave Pulses in Magnetic Film Active Feedback Rings. Physical Review Letters, 2005, 95, 237202.	7.8	55
49	Nonlinear damping of high-power magnetostatic waves in yttrium-iron-garnet films. Journal of Applied Physics, 2004, 95, 6294-6301.	2.5	46
50	Spatial evolution of multip peaked microwave magnetic envelope solitons in yttrium iron garnet thin films. Physical Review B, 2004, 70, .	3.2	17
51	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
52	Experimental observation of symmetry-breaking nonlinear modes in an active ring. Nature, 2003, 426, 159-162.	27.8	98
53	Spatial recurrence for nonlinear magnetostatic wave excitations. Journal of Applied Physics, 2003, 94, 5877-5880.	2.5	14
54	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

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55	Self-Generation of Fundamental Dark Solitons in Magnetic Films. Physical Review Letters, 2000, 84, 4697-4700.	7.8	79
56	Excitation of bright and dark microwave magnetic envelope solitons in a resonant ring. Applied Physics Letters, 1999, 75, 265-267.	3.3	19
57	Self-Generation of Microwave Magnetic Envelope Soliton Trains in Yttrium Iron Garnet Thin Films. Physical Review Letters, 1998, 80, 4301-4304.	7.8	66
58	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
59	Decay Free Microwave Magnetic Envelope Soliton Pulse Trains in Yttrium Iron Garnet Thin Films. Physical Review Letters, 1997, 78, 2827-2830.	7.8	43