

M Daniel

List of Publications by Year in descending order

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85
papers

1,945
citations

279487

23
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264894

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86
all docs

86
docs citations

86
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the motion of solitons in 1-D magnonic crystal. AIP Conference Proceedings, 2018, , .	0.3	0
2	Spin Transfer Torque Switching in Pentalayer Nanopillar with Biquadratic Coupling. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2567-2572.	0.8	3
3	Nonlinear magnetic excitations in periodic array of ferromagnetic alloys. AIP Conference Proceedings, 2017, , .	0.3	0
4	Reduction of switching time in pentalayer nanopillar device with different biasing configurations. Journal of Magnetism and Magnetic Materials, 2017, 421, 409-413.	1.0	5
5	Effect of biquadratic coupling on current induced magnetization switching in Co/Cu/Ni-Fe nanopillar. AIP Conference Proceedings, 2016, , .	0.3	2
6	Soliton solution for the Landau-Lifshitz equation of a one-dimensional bicomponent magnonic crystal. Physical Review E, 2016, 94, 032222.	0.8	5
7	Impact of biquadratic coupling on critical current density in Co/Cu/Ni-Fe nanopillar. AIP Conference Proceedings, 2016, , .	0.3	0
8	Domain wall assisted GMR head with spin-Hall effect. AIP Conference Proceedings, 2016, , .	0.3	0
9	Multilayered bubbling route to SNA in a quasiperiodically forced electronic circuit with a simple nonlinear element. International Journal of Dynamics and Control, 2016, 4, 413-427.	1.5	0
10	Current induced magnetization switching in Co/Cu/Ni-Fe nanopillar with orange peel coupling. AIP Advances, 2015, 5, 077166.	0.6	13
11	Impact of current on static and kinetic depinning fields of domain wall in ferromagnetic nanostrip. Pramana - Journal of Physics, 2015, 85, 947-959.	0.9	4
12	Current-Induced Magnetization Dynamics in 1-D Bicomponent Magnonic Crystal. IEEE Transactions on Magnetics, 2015, 51, 1-7.	1.2	0
13	Multilayered bubbling route to SNA in a quasiperiodically forced electronic circuit with experimental and analytical confirmation. Chaos, Solitons and Fractals, 2015, 75, 96-110.	2.5	23
14	Analytical Study and Experimental Confirmation of SNA Through Poincaré Maps in a Quasiperiodically Forced Electronic Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530020.	0.7	11
15	Current induced magnetization dynamics in one dimensional magnonic crystal. , 2015, , .		0
16	CURRENT DRIVEN SWITCHING IN CoPt/Au/CoPt NANOPILLAR WITH INTERFACE ANISOTROPY. International Journal of Modern Physics B, 2012, 26, 1250068.	1.0	2
17	Effect of flow on soliton-like director reorientation in a nematic liquid crystal. Physica Scripta, 2012, 86, 015602.	1.2	0
18	Impact of magnetic surface anisotropy on the precessional switching of magnetization in Pt-alloy nanofilms. Physica B: Condensed Matter, 2012, 407, 3352-3359.	1.3	4

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19	Internal nonlinear dynamics of a short lattice DNA model in terms of propagating kink-antikink solitons. <i>Physical Review E</i> , 2012, 85, 041911.	0.8	10
20	Impact of interface anisotropy on spin polarized current driven switching in FePt/Au/FePt nanopillar. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4219-4224.	1.0	2
21	Bubble solitons in an inhomogeneous, helical DNA molecular chain with flexible strands. <i>Physical Review E</i> , 2011, 84, 031928.	0.8	21
22	Magnetization reversal in nanopillar devices. <i>Physica Scripta</i> , 2011, 84, 035706.	1.2	8
23	Analytical study of fast precessional switching of magnetization in ferromagnetic nanofilms. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 046004.	0.7	5
24	Nonlinear spin excitations in a classical Heisenberg anisotropic helimagnet. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 397-406.	1.3	9
25	Spin-transfer induced ultrafast precessional switching enhanced by interface anisotropy in a ferromagnetic nanopillar. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 675-680.	1.0	17
26	Base-pair opening and bubble transport in a DNA double helix induced by a protein molecule in a viscous medium. <i>Physical Review E</i> , 2009, 80, 061904.	0.8	29
27	Ultrafast precessional switching in a permalloy thin film with magnetic surface anisotropy. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 352001.	0.7	6
28	Effect of twist inhomogeneity on soliton spin excitations in a helimagnet. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2841-2851.	0.9	14
29	Soliton spin excitations in a Heisenberg helimagnet. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 1842-1848.	2.5	18
30	Chaotic dynamics with high complexity in a simplified new nonautonomous nonlinear electronic circuit. <i>Chaos, Solitons and Fractals</i> , 2009, 42, 2246-2253.	2.5	23
31	Solitonlike base pair opening in a helicoidal DNA: An analogy with a helimagnet and a cholesteric liquid crystal. <i>Physical Review E</i> , 2009, 79, 012901.	0.8	26
32	Perturbed soliton-like molecular excitations in a deformed DNA chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 373, 76-82.	0.9	19
33	Nonlinear molecular deformations and solitons in a nematic liquid crystal. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 3135-3145.	1.3	8
34	Soliton-like molecular deformations in a nematic liquid crystal film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2623-2633.	0.9	3
35	Nonlinear molecular excitations in a completely inhomogeneous DNA chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5144-5151.	0.9	20
36	Soliton spin excitations and their perturbation in a generalized inhomogeneous Heisenberg ferromagnet. <i>Physical Review B</i> , 2008, 77, .	1.1	33

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37	Perturbed soliton excitations in the DNA double helix. <i>Physica D: Nonlinear Phenomena</i> , 2007, 231, 10-29.	1.3	43
38	SOLITON EXCITATIONS IN AN INHOMOGENEOUS DNA MOLECULAR CHAIN. , 2006, , .		0
39	Director relaxation in a nematic liquid crystal. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 346, 250-260.	1.2	7
40	On a new approach to generate spatial optical soliton in dielectric fibers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 323, 57-62.	0.9	0
41	Director oscillation in a one-dimensional nematic liquid crystal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 332, 17-24.	0.9	8
42	Modified Kadomtsevâ€“Petviashvili (MKP) equation and electromagnetic soliton. <i>Mathematics and Computers in Simulation</i> , 2003, 62, 163-169.	2.4	29
43	Integrability and soliton in a classical one-dimensional site-dependent biquadratic Heisenberg spin chain and the effect of nonlinear inhomogeneity. <i>Journal of Physics A</i> , 2003, 36, 10471-10492.	1.6	62
44	Magnetization reversal through soliton flip in a biquadratic ferromagnet with varying exchange interactions. <i>Physical Review B</i> , 2002, 66, .	1.1	61
45	Optical soliton in a dielectric medium due to rotational torque on the dipoles of the medium. , 2002, 4751, 50.		0
46	Propagation of an electromagnetic soliton in a ferromagnetic medium. <i>ANZIAM Journal</i> , 2002, 44, 103-110.	0.3	1
47	Soliton in an anisotropic spin ladder with site and spin-dependent Dzyaloshinskyâ€“Moriya interaction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 295, 121-132.	0.9	19
48	Simultaneous propagation of many electromagnetic signals without loss in a ferromagnetic medium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 295, 259-266.	0.9	8
49	Propagation of electromagnetic soliton in antiferromagnetic medium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 302, 77-86.	0.9	44
50	Soliton in alpha helical proteins with interspine coupling at higher order. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 302, 94-104.	0.9	38
51	Electromagnetic soliton in an anisotropic ferromagnetic medium under nonuniform perturbation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 278, 331-338.	0.9	20
52	A generalized Davydov soliton model for energy transfer in alpha helical proteins. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 298, 351-370.	1.2	78
53	Localized spin excitations in an anisotropic Heisenberg ferromagnet with Dzyaloshinskii-Moriya interactions. <i>Physical Review B</i> , 2001, 63, .	1.1	51
54	Nonlinear spin excitations and singularity structure of a classical continuum spin ladder with ferromagnetic legs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 282, 155-175.	1.2	9

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55	Soliton spin excitations in an anisotropic Heisenberg ferromagnet with octupole-dipole interaction. <i>Physical Review B</i> , 1999, 59, 13774-13781.	1.1	118
56	Soliton in discrete and continuum alpha helical proteins with interspine coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 252, 92-108.	0.9	38
57	On the geometric equivalence of certain discrete integrable Heisenberg ferromagnetic spin chains. <i>Journal of Mathematical Physics</i> , 1999, 40, 2560-2567.	0.5	6
58	Electromagnetic soliton damping in a ferromagnetic medium. <i>Physical Review E</i> , 1998, 57, 1197-1200.	0.8	21
59	Soliton and electromagnetic wave propagation in a ferromagnetic medium. <i>Physical Review E</i> , 1997, 55, 3619-3623.	0.8	25
60	Nonlinear spin-phonon excitations in an inhomogeneous compressible biquadratic Heisenberg spin chain. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 234, 715-724.	1.2	23
61	Soliton in discrete and continuum alpha helical proteins with higher-order excitations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 240, 526-546.	1.2	42
62	Dynamics of an inhomogeneous anisotropic antiferromagnetic spin chain. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 193, 439-444.	0.7	3
63	Soliton in an inhomogeneous weak ferromagnet with the Dzialoshinski-Moriya interaction. <i>Physical Review B</i> , 1996, 53, R2930-R2933.	1.1	34
64	The dynamics of a generalized Heisenberg ferromagnetic spin chain. <i>Chaos</i> , 1995, 5, 439-442.	1.0	8
65	Davydov soliton in alpha helical proteins: higher order and discreteness effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 221, 241-255.	1.2	39
66	Bright and dark optical solitons in coupled higher-order nonlinear Schrodinger equations through singularity structure analysis. <i>Journal of Physics A</i> , 1995, 28, 7299-7314.	1.6	34
67	Nonlinear dynamics of weak ferromagnetic spin chains. <i>Journal of Physics A</i> , 1995, 28, 5529-5537.	1.6	17
68	On the integrability of the inhomogeneous spherically symmetric Heisenberg ferromagnet in arbitrary dimensions. <i>Journal of Mathematical Physics</i> , 1994, 35, 6498-6510.	0.5	73
69	On the spin excitations in the classical continuum Heisenberg antiferromagnetic spin systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 191, 46-56.	0.9	8
70	On the integrable models of the higher order water wave equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 174, 237-240.	0.9	14
71	On the integrability aspects of the one-dimensional classical continuum isotropic biquadratic Heisenberg spin chain. <i>Journal of Mathematical Physics</i> , 1992, 33, 1807-1816.	0.5	205
72	Singularity structure analysis of the continuum Heisenberg spin chain with anisotropy and transverse field: Nonintegrability and chaos. <i>Journal of Mathematical Physics</i> , 1992, 33, 771-776.	0.5	46

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73	Nonlinear excitations in the classical continuum antiferromagnetic Heisenberg spin chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 162, 162-166.	0.9	8
74	Generalized β -dependent Hirota equation: singularity structure, Bäcklund transformation and soliton solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 156, 206-210.	0.9	20
75	Soliton dynamics of hydrogen-bonded systems. Journal of Physics Condensed Matter, 1990, 2, 2331-2333.	0.7	7
76	Painlevé Analysis and Integrability of the Evolution Equation $u_t = uxxx + u^2 u_{xx} + 3uu_x^2 + 1/3u^4 u_x$. Research Reports in Physics, 1990, , 273-279.	0.0	0
77	On the weak Painlevé property and linearization of the evolution equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 130, 19-21.	0.9	4
78	Effect of discreteness on the continuum limit of the Heisenberg spin chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 133, 483-488.	0.9	225
79	On the Nonlinear Excitations in One-Dimensional Uniaxial Anisotropic Heisenberg Ferromagnetic Spin Chain in External Magnetic Fields. Springer Series in Synergetics, 1985, , 210-216.	0.2	0
80	Perturbation of solitons in the classical continuum isotropic Heisenberg spin system. Physica A: Statistical Mechanics and Its Applications, 1983, 120, 125-152.	1.2	31
81	Comment on the classical models of electrons and nuclei and the generalizations of classical Poisson brackets to include spin. Journal of Chemical Physics, 1983, 78, 7505-7506.	1.2	6
82	On the evolution of higher dimensional Heisenberg continuum spin systems. Physica A: Statistical Mechanics and Its Applications, 1981, 107, 533-552.	1.2	41
83	Soliton damping and energy loss in the classical continuum Heisenberg spin chain. Physical Review B, 1981, 24, 6751-6754.	1.1	16
84	Point singularities in micromagnetic systems with radial symmetry. Journal of Physics C: Solid State Physics, 1980, 13, 4743-4749.	1.5	4
85	Stationary, spherically and axially symmetric spin waves in the continuum Heisenberg spin system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 75, 97-98.	0.9	8