

Dimitar I Pushkarov

List of Publications by Year in descending order

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42
papers

696
citations

840776

11
h-index

552781

26
g-index

43
all docs

43
docs citations

43
times ranked

321
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-action of light beams in nonlinear media: soliton solutions. <i>Optical and Quantum Electronics</i> , 1979, 11, 471-478.	3.3	166
2	Bright and dark solitary wave propagation and bistability in the anomalous dispersion region of optical waveguides with third- and fifth-order nonlinearities. <i>Optics Communications</i> , 1996, 124, 354-364.	2.1	104
3	Solitary wave propagation and bistability in the normal dispersion region of highly nonlinear optical fibres and waveguides. <i>Optics Communications</i> , 1997, 141, 322-328.	2.1	93
4	Solitary magnons in one-dimensional ferromagnetic chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1977, 61, 339-340.	2.1	79
5	Solitons in One-Dimensional Ferromagnetic Systems. <i>Physica Status Solidi (B): Basic Research</i> , 1977, 81, 703-707.	1.5	44
6	Soliton solutions in some non-linear Schrödinger-like equations. <i>Reports on Mathematical Physics</i> , 1980, 17, 37-40.	0.8	33
7	Influence of nonlinearly induced diffraction on spatial solitary waves. <i>Optical and Quantum Electronics</i> , 2000, 32, 49-62.	3.3	25
8	Wave-beam coupling in quadratic nonlinear optical waveguides: Effects of nonlinearly induced diffraction. <i>Physical Review E</i> , 2000, 62, 2871-2877.	2.1	14
9	On the defecton statistics in quantum crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 133, 525-531.	1.5	13
10	Quasi-classical description of the Heisenberg ferromagnet: Soliton solutions. <i>Physica Status Solidi (B): Basic Research</i> , 1978, 85, K89.	1.5	11
11	I-V characteristics of tunnel MOS structures with silicon oxide obtained in RF oxygen plasma. <i>Solid-State Electronics</i> , 1982, 25, 781-789.	1.4	11
12	Effect of a point defect on soliton solutions of the NLSE. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 149, 287-290.	2.1	10
13	Stability of narrow beams in bulk Kerr-type nonlinear media. <i>Physical Review A</i> , 2001, 64, .	2.5	9
14	Solitary Excitations in One-Dimensional Ferromagnets with Biquadratic Exchange. <i>Physica Status Solidi (B): Basic Research</i> , 1978, 88, 65-71.	1.5	8
15	Quasiparticle kinetics and dynamics in nonstationary deformed crystals in the presence of electromagnetic fields. <i>Physics Reports</i> , 2001, 354, 411-467.	25.6	7
16	Solitary Bound State of Magnons and Lattice Deformation in an Anharmonic One-Dimensional Ferromagnet. <i>Physica Status Solidi (B): Basic Research</i> , 1979, 93, 735-742.	1.5	6
17	Soliton excitations in deformable solids. <i>Physica Scripta</i> , 1989, 39, 620-623.	2.5	6
18	Mass transport by crowdions: A simple model appropriate to body-centred-cubic Na and K. <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 139-140.	4.0	6

#	ARTICLE	IF	CITATIONS
19	Quantum diffusion. Open Physics, 2004, 2, .	1.7	6
20	Dynamics theory of quantum crystals with delocalised defects. Journal of Physics C: Solid State Physics, 1986, 19, 6873-6885.	1.5	5
21	Solitary defectons in one-dimensional quantum crystals. Journal of Physics C: Solid State Physics, 1977, 10, 3711-3716.	1.5	4
22	Beam Propagation in Kerr-type Nonlinear Waveguides. Physica Scripta, 2000, T84, 197.	2.5	4
23	Vacancy-impurity nanoclusters in solid solutions of ^3He in ^4He . Physical Review B, 2004, 70, .	3.2	3
24	Vacancy distribution in a rotating solid ^4He . Europhysics Letters, 2012, 97, 56002.	2.0	3
25	Defecton Diffusion in the Very Quantum Region. Physica Status Solidi (B): Basic Research, 1976, 74, K97.	1.5	2
26	Solitary bound states of magnons and lattice deformation in ferromagnets with biquadratic exchange. Physica Status Solidi (B): Basic Research, 1978, 90, 361-368.	1.5	2
27	Vortex Lines in Ferromagnets. Physica Status Solidi (B): Basic Research, 1980, 97, K109.	1.5	2
28	Quantum behaviour of solitons in lattice structures. Solid State Communications, 1985, 54, 465-469.	1.9	2
29	Dynamic theory of deformable solids with quasiparticle excitations in the presence of electromagnetic fields. Physical Review B, 2000, 61, 4000-4011.	3.2	2
30	Delocalisation and diffusion of defects in quantum crystals at $T = 0$. Physica Status Solidi (B): Basic Research, 1975, 67, K23.	1.5	1
31	Electron-phonon interaction Soliton solutions. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1978, 38, 319-324.	0.6	1
32	Magnetohydrodynamic approach to metals. Physical Review B, 1992, 46, 7374-7378.	3.2	1
33	Comment on "Quantum diffusion of ^3He impurities in solid ^4He ". Physical Review B, 2000, 61, 15474-15475.	3.2	1
34	Comment on "Effect of rotation on the elastic moduli of solid ^4He ". Physical Review B, 2019, 99, .	3.2	1
35	On the theory of thermal conductivity in quantum crystals. Physica Status Solidi (B): Basic Research, 1977, 80, 295-300.	1.5	0
36	Solitary defectons in one-dimensional quantum crystals. Journal of Physics C: Solid State Physics, 1978, 11, 849-849.	1.5	0

#	ARTICLE	IF	CITATIONS
37	On the Theory of Solitary Excitons in Oneâ€¦Dimensional Systems. Physica Status Solidi (B): Basic Research, 1990, 159, K17.	1.5	0
38	Two-fluid hydrodynamic description of quasiparticle gas in crystals. Physica Scripta, 1990, 42, 481-484.	2.5	0
39	Vacancy-impurity nanoclusters in solid solutions ³ He-4He. Journal of Physics: Conference Series, 2010, 253, 012019.	0.4	0
40	Bright Solitary-Wave Beams in Bulk Kerr-Type Nonlinear Media. , 2001, , 351-354.		0
41	Spatial Solitary-Wave Beams in Kerr-Type Planar Optical Waveguides: Nonparaxial Vector Approach. , 2001, , 95-98.		0
42	Effects of Nonlinearly Induced Inhomogeneity on Solitary Wave Formation. , 2001, , 293-316.		0