

Списък на цитиранията на публикациите

на гл. ас. Радостина Стефанова Камбурова - Михайлова

Общ брой на цитатите – 62, от тях 4 са върху две работи (означени със звездичка), включени в дисертацията.

[статия номер] – брой цитирания

[1] – 3	[10] – 27	[15]* - 2
[5]* – 2	[11] – 4	[26] - 2
[9] – 21	[13] - 1	

1. M.T. Primatarowa, K.T.Stoychev, R.S. Kamburova, Exciton solitons in molecular crystals, *Phys. Rev. B* **52**, p. 15291 (1995).

- 1) F. Colomo, A.G. Izergin, V. Tognetti, Correlation functions in the XXO Heisenberg chain and their relations with spectral shapes, *Journal of Physics A* **30** (2), pp. 361-370 (1997).
- 2) Z. Ivić, D. Kapor, M. Pantić, Solitons in the system of interacting Frenkel excitons, *Journal of Physics Condensed Matter* **12** (6), pp. 871-884 (2000).
- 3) V. Pouthier, J.C. Light, C. Girardet, Quantum transport theory of vibrons in a molecular monolayer, *Journal of Chemical Physics* **114** (11), pp. 4955-4967 (2001).

5. *M.T. Primatarowa, R.S. Kamburova, Soliton dynamics in three coupled molecular chains, *phys. stat. sol. (b)* **217**, 769 (2000).

- 1) D. Čevizović, Z. Ivić, D. Toprek, D. Kapor, Ž. Pržulj, The influence of the interchain coupling on large acoustic polarons in coupled molecular chains: Three coplanar parallel molecular chains, *Chaos, Solitons and Fractals* **73**, 71-79 (2015).
- 2) A. Mvogo, G.H. Ben-Bolie, T.C. Kofané, Energy transport in the three coupled α -polypeptide chains of collagen molecule with long-range interactions effect, *Chaos* **25**, 6 063115(2015).

9. K.T. Stoychev, M.T. Primatarowa and R.S. Kamburova, Resonant scattering of nonlinear Schrödinger solitons from potential wells, *Phys. Rev. E* **70**, 066622(5) (2004).

- 1) V. Ahufinger, A. Mebrahtu, R. Corbalán and A. Sanpera, Quantum switches and quantum memories for matter-wave lattice solitons, *New J. Phys.* **9**, 1-13 (2007).
- 2) Y. Linzon, R. Morandotti, M. Volatier, V. Aimez, R. Ares, S. Bar-Ad, Nonlinear scattering and trapping by local photonic potentials, *Physical Review Letters* **99** (13), art. no. 133901 (2007).
- 3) Y. Shavit, Y. Linzon, S. Bar-Ad, R. Morandotti, M. Volatier-Ravat, V. Aimez, R. Ares, Power-dependent switching of nonlinear trapping by local photonic potentials, *Optics Letters* **33** (10), pp. 1056-1058 (2008).

- 4) Y. Linzon, Y. Shavit, S. Bar-Ad, Trapping dynamics in nonlinear wave scattering by local guiding defects, *Optics Express* **16** (14), pp. 10189-10200 (2008).
- 5) Y. Linzon, B.A. Malomed, M. Zaezjev, R. Morandott, M. Volatier, V. Aimez, R. Ares, S. Bar-Ad, Nonlinear wave interactions in patterned Silica and AlGaAs waveguides, *Central European Journal of Physics* **6** (3), pp. 555-562 (2008).
- 6) Y.Linzon, B.A. Malomed, M. Zaezjev, R. Morandott, M. Volatier, V. Aimez, R. Ares, S. Bar-Ad, Wave interactions and wave-structure scattering in nonlinear patterned waveguides, *Mathematics and Computers in Simulation* **80** (4), pp. 666-673 (2009).
- 7) D. Todorović, M. Pantić, M. Škrinjar, D. Kapor, S. Stojanović, Dependence of the Davydov's soliton behavior in the linear polymer chain on the excitonphonon coupling, *International Journal of Modern Physics B* **23** (31), pp. 5835-5848 (2009).
- 8) T. Ernst, J. Brand, Resonant trapping in the transport of a matter-wave soliton through a quantum well, *Physical Review A - Atomic, Molecular, and Optical Physics* **81** (3), art. no. 033614 (2010).
- 9) T.L. Belyaeva, V.N. Serkin, C. Hernandez-Tenorio, F. Garcia-Santibañez, Enigmas of optical and matter-wave soliton nonlinear tunneling, *Journal of Modern Optics* **57** (12), pp. 1087-1099 (2010).
- 10) V.A. Brazhnyi, M. Salerno, Resonant scattering of matter-wave gap solitons by optical lattice defects, *Physical Review A* **83**, 5, art. no. 053616 (2011).
- 11) T.L. Belyaeva, C. Hernandez-Tenorio, R. Perez-Torres, L.M. Kovachev, V.N. Serkin, Proceedings of *SPIE - The International Society for Optical Engineering* 7747, art. no. 7741N (2011).
- 12) J.-R.He, H.-M. Li, Analytical solitary-wave solutions of the generalized nonautonomous cubic-quintic nonlinear Schrödinger equation with different external potentials, *Physical Review E* **83**, 6, art. no. 066607 (2011).
- 13) J. Lægsgaard, Trapping of slow solitons by longitudinal inhomogeneity in high-index photonic crystal fibers, *Journal of the Optical Society of America B: Optical Physics*, **28**, 11, pp. 2617-2624 (2011)
- 14) T.L. Belyaeva, V.N. Serkin, Wave-particle duality of solitons and solitonic analog of the ramsauer-townsend effect, *European Physical Journal D* **66**, 6, art. no. 153 (2012).
- 15) M. Asad-uz-zaman and U. Al Khawaja, Directional flow of solitons with asymmetric potential wells: Soliton diode, arXiv:1303.0719v1 (2013).
- 16) M. Asad-uz-zaman and U. Al Khawaja, Directional flow of solitons with asymmetric potential wells: Soliton diode *EPL* **101** (5), art. no. 50008 (2013),
- 17) V.A. Brazhnyi, C.P. Jisha, A.S. Rodrigues, Interaction of discrete nonlinear Schrödinger solitons with a linear lattice impurity, *Physical Review A - Atomic, Molecular, and Optical Physics* **87** (1), art. no. 013609 (2013)
- 18) Valery A. Brazhnyy, Chandroth P. Jisha, and A. S. Rodrigues, arXiv:1301.4346v1 [nlin.PS] (2013).
- 19) V.N. Serkin, A. Hasegawa, T.L Belyaeva, Soliton self-induced sub-barrier transparency and the controllable shooting out effect, *Journal of Modern Optics* **60**, 6, pp. 444-451 (2013), DOI: 10.1080/09500340.2013.783636
- 20) S.M. Al-Marzoug, Scattering of solitons by complex PT symmetric gaussian potentials, *Optics Express* **22**, 22080 (2014).

- 21) V.N. Serkin, A. Hasegawa and T.L. Belyaeva, Proceedings of *SPIE - The International Society for Optical Engineering* **9447**, Art. no. 94471D (2015).
10. M.T. Primatarowa, K.T., Stoychev, R.S. Kamburova, Interaction of solitons with extended nonlinear defects, *Phys. Rev. E* **72**, p. 036608 (2005).
- 1) J. Belmonte-Beitia, V.M. Pérez-García, V. Vekslerchik, P.J. Torres, Lie symmetries and solitons in nonlinear systems with spatially inhomogeneous nonlinearities, *Physical Review Letters* **98** (6), art. no. 064102 (2007).
 - 2) A. Fratolocchi, G. Assanto, Nonlinear adiabatic evolution and emission of coherent Bloch waves in optical lattices, *Physical Review A* **75** (1), art. no. 013626 (2007).
 - 3) A. Fratolocchi, G. Assanto, Symmetry-breaking instabilities in perturbed optical lattices: Nonlinear nonreciprocity and macroscopic self-trapping, *Physical Review A* **75** (6), art. no. 063828 (2007).
 - 4) V. Ahufinger, A. Mebrahtu, R. Corbalán, A. Sanpera, Quantum switches and quantum memories for matter-wave lattice solitons, *New Journal of Physics* **9**, pp. 1-13 (2007).
 - 5) Z. Rapti, P.G. Kevrekidis, V.V. Konotop, C.KRT. Jones, Solitary waves under the competition of linear and nonlinear periodic potentials, *Journal of Physics A* **40** (47), pp. 14151-14163 (2007).
 - 6) B.-B. Juan, V.M. Pérez-García, V. Vadyim, P.J. Torres, Lie symmetries, qualitative analysis and exact solutions of nonlinear Schrödinger equations with inhomogeneous nonlinearities, *Discrete and Continuous Dynamical Systems - Series B* **9** (2), pp. 221-233 (2008).
 - 7) R. Hao, R. Yang, L. Li, G. Zhou, Solutions for the propagation of light in nonlinear optical media with spatially inhomogeneous nonlinearities, *Optics Communications* **281** (5), pp. 1256-1262 (2008).
 - 8) R. Hao, G. Zhou, Propagation of light in (2+1)-dimensional nonlinear optical media with spatially inhomogeneous nonlinearities, *Chinese Optics Letters* **6** (3), pp. 211-213 (2008).
 - 9) A.S. Rodrigues, P.G. Kevrekidis, M.A. Porter, D.J. Frantzeskakis, P. Schmelcher, A.R. Bishop, Matter-wave solitons with a periodic, piecewise-constant scattering length, *Physical Review A* **78** (1), art. no. 013611 (2008).
 - 10) S. Beheshti, K. J. H. Law, P. G. Kevrekidis, Mason A. Porter, Averaging of nonlinearity management with dissipation, *Phys. Rev. A* **78**, 025805 (2008).
 - 11) J. Belmonte-Beitia, On the existence of bright solitons in cubic-quintic nonlinear Schrödinger equation with inhomogeneous nonlinearity, *Math. Problems in Engineering*, ID 935390 (2008).
 - 12) J. Belmonte-Beitia and P. J. Torres, Existence of dark soliton solutions of the cubic nonlinear Schrödinger equation with periodic inhomogeneous nonlinearity, *J. Nonlin. Math. Phys.* **15** (SUPPL.3), 65 (2008).
 - 13) V. Carpentier, J. Belmonte-Beitia, H. Michenel and M. I. Rodas-Verde, Laser tweezers for atomic solitons, *J. Modern Optics* **55**, 2819 (2008).
 - 14) S. Middelkamp, P.G. Kevrekidis, D.J. Frantzeskakis, P. Schmelcher, Matter-wave solitons in the presence of collisional inhomogeneities: Perturbation theory and the impact of derivative terms, *Physics Letters, Section A: General, Atomic and Solid State Physics* **373** (2), pp. 262-268 (2009).

- 15) Y. Gao, X.-Y Tang, S.-Y Lou, Localized waves in nonlinear systems with spatially inhomogeneous nonlinearity, *Chinese Physics Letters* **26** (3), art. no. 030502 (2009).
 - 16) F. Ye, Y.V. Kartashov, B. Hu, L. Torner, Light bullets in Bessel optical lattices with spatially modulated nonlinearity, *Optics Express* **17** (14), pp. 11328-11334 (2009).
 - 17) C. Wang, P.G. Kevrekidis, N. Whitaker, D.J. Frantzeskakis, S. Middelkamp and P. Schmelcher, Collisionally inhomogeneous Bose-Einstein condensates in double-well potentials, *Physica D* **238**, pp. 1362-1371 (2009).
 - 18) J. Belmonte-Beitia, V.M. Pérez-García, P.J. Torres, Solitary waves for linearly coupled nonlinear Schrödinger equations with inhomogeneous coefficients, *Journal of Nonlinear Science* **19** (4), pp. 437-451 (2009).
 - 19) D. Todorović, M. Pantić, M. Škrinjar, D. Kapor, S. Stojanović, Dependence of the Davydov's soliton behavior in the linear polymer chain on the exciton phonon coupling, *International Journal of Modern Physics B* **23** (31), pp. 5835-5848 (2009).
 - 20) J. Belmonte-Beitia, J. Cuevas, Existence of dark solitons in a class of stationary nonlinear Schrödinger equations with periodically modulated nonlinearity and periodic asymptotics, *Journal of Mathematical Physics* **52**, (3), art. no. 032702 (2011).
 - 21) V.A. Brazhnyi, M. Salerno, Resonant scattering of matter-wave gap solitons by optical lattice defects, *Physical Review A* **83**, 5, art. no. 053616 (2011).
 - 22) R. Hao, Dark soliton in the exponentially decaying optical lattice with spatially inhomogeneous Gaussian nonlinearities, *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **637** (1 SUPPL.), 145-148 (2011).
 - 23) J.-R. He, H.-M. Li, Analytical solitary-wave solutions of the generalized nonautonomous cubic-quintic nonlinear Schrödinger equation with different external potentials, *Physical Review E* **83**, 6, art. no. 066607 (2011).
 - 24) Y.V. Kartashov, B.A. Malomed, L. Torner, Solitons in nonlinear lattices, *Rev. Mod. Phys.* **83**, pp. 247–305 (2011).
 - 25) C. Wang, K.J.H. Law, P.G. Kevrekidis, M.A. Porter, Dark solitary waves in a class of collisionally inhomogeneous Bose-Einstein condensates, *Physical Review A* **87**, 2, art. Number 023621 (2013).
 - 26) D. Nath, B. Roy, R. Roychoudhury, PT symmetric nonlinear optical lattice: Analytical solutions, *Chaos, Solitons and Fractals* **81**, 91-97 (2015).
 - 27) E. Gromov, B. Malomed, Langmuir solitons in a plasma with inhomogeneous electron temperature, *Physica Scripta* **90**, 6, art. no: 068021 (2015).
11. K.T. Stoychev, M.T. Primatarowa, R.S. Kamburova, Interaction of solitons with segment with modified dispersion, *Phys. Rev. E* **73**, p. 066611 (2006).
- 1) Y. He, J. Tian, G. Zhou, W. Xue, Y. Xiao, H. Wang, Control of soliton interactions by use of super-Gaussian sliding-frequency filters *Chinese Optics Letters* **6** (7), pp. 476-478 (2008).
 - 2) Y. He, L. Luo, W. Zhu, H. Wang, Effect of the third-order filter term on soliton interactions in soliton transmission systems with filters, *Chinese Optics Letters* **7** (11), pp. 986-989 (2009).

- 3) D. Todorović, M. Panti, M. Škrinjar, D. Kapor, S. Stojanović, Dependence of the Davydov's soliton behavior in the linear polymer chain on the excitonphonon coupling, *International Journal of Modern Physics B* **23** (31), pp. 5835-5848 (2009).
 - 4) J.-R. He, H.-M. Li, Analytical solitary-wave solutions of the generalized nonautonomous cubic-quintic nonlinear Schrödinger equation with different external potentials, *Physical Review E* **83**, 6, art. no. 066607, (2011).
13. K.T. Stoychev, M.T. Primatarowa, R.S. Kamburova, Resonant interaction of solitons with extended defects, *Journal of Optoelectronics and Advanced Materials* **9** (1), pp. 155-158 (2007)
- 1) D. Chakraborty, J.-H Jung, A quantitative study of the nonlinear Schrödinger equation with singular potential of any derivative orders, *Applied Mathematics Letters* **26** (8), pp. 860-866 (2013).
15. *M.T. Primatarowa, K.T. Stoychev, R.S. Kamburova, Interaction of solitons with bond defects in discrete nonlinear Schrödinger chains, *Phys. Rev. E* **77**, p.066604 (2008).
- 1) J.-T. Pan, W.-Z.Chen, F. Tao, W. Xu, Influence of impurities on solitons in the nonlinear LC transmission line, *Physical Review E* **83** (1), art. no. 016601 (2011).
 - 2) L.Tkeshelashvili, Discrete optical soliton scattering by local inhomogeneities, *Photonics and Nanostructures - Fundamentals and Applications* **11** (1), pp. 95-101 (2013).
26. M.T. Primatarowa, R.S. Kamburova, Interaction of narrow dark solitons with impurities in nonlinear lattices, *Romanian Reports in Physics* **65** (2), pp. 374-382 (2013).
- 1) H. Triki, Z. Jovanoski, A. Biswas, Dynamics of two-layered shallow water waves with coupled KdV equations, *Romanian Reports in Physics* **66** (2), pp. 251-261(2014).
 - 2) G.W. Wang, T.Z. Xu, A. Biswas, Topological solitons and conservation laws of the coupled burgers equations, *Romanian Reports in Physics* **66** (2), pp. 274-285 (2014).