

## Publication List

### *Articles in journals:*

1. G. Gligorić, D. Leykam, A. Maluckov, Influence of different disorder types on Aharonov-Bohm caging in the diamond chain, *Physical Review A* 101, 023839 (2020)
2. G. Gligorić, P. P. Beličev, D. Leykam, A. Maluckov, Nonlinear symmetry breaking of Aharonov-Bohm cages, *Physical Review A* 99, 013826 (2019)
3. M. Johansson, P. P. Beličev, G. Gligorić, D. R. Gulevich, D. V. Skryabin, Nonlinear gap modes and compactons in a lattice model for spin-orbit coupled exciton-polaritons in zigzag chains, *Journal of Physics Communications* 3, 015001 (2019)
4. Stojanović, P. P. Beličev, G. Gligorić, Lj. Hadžievski, Terahertz chiral metamaterial based on twisted closed ring resonators, *Journal of Physics D* 51, 045106 (2018)
5. M. D. Ivanović, J. Petrovic, A. Savić, G. Gligorić, M. Miletić, M. Vukčević, B. Bojović, Lj. Hadžievski, T. Allsop, and D. J. Webb, Real-time chest-wall-motion tracking by a single optical fibre grating: a prospective method for ventilator triggering, *Physiological Measurement* 39, 04500 (2018)
6. P. P. Beličev, G. Gligorić, A. Maluckov, M. Stepić, M. Johansson, Localized gap modes in nonlinear dimerized Lieb lattices, *Physical Review A* 96, 063838 (2017)
7. G. Gligorić, A. Radosavljević, J. Petrovic, A. Maluckov, Lj. Hadžievski, B. A. Malomed, Models of spin-orbit-coupled oligomers, *Chaos* 27, 113102 (2017)
8. A. Radosavljević, G. Gligorić, P. P. Beličev, A. Maluckov, M. Stepić, Light propagation in binary kagome ribbons with evolving disorder, *Physical Review E* 96, 012225 (2017)
9. G. Gligorić, A. Maluckov, Lj. Hadžievski, S. Flach, B. A. Malomed, Nonlinear localized flat-band modes with spin-orbit coupling, *Physical Review B* 94, 144302 (2016)
10. S. Zdravković, G. Gligorić, Kinks and bell-type solitons in microtubules, *Chaos* 26, 063101 (2016)
11. P. P. Beličev, G. Gligorić, A. Radosavljević, A. Maluckov, M. Stepić, R. A. Vicencio, and M. Johansson, Localized modes in nonlinear binary kagome ribbons, *Physical Review E* 92, 052916 (2015)
12. S. Kuzmanović, M. Stojanović-Krasić, D. Milović, M. Miletić, A. Radosavljević, G. Gligorić, A. Maluckov, M. Stepić, Light propagation inside 'cavity' formed between nonlinear defect and interface of two dissimilar one-dimensional linear photonic lattices, *The European Physical Journal D* 69, 207 (2015)
13. G. Gligorić, A. Maluckov, Lj. Hadžievski, G. Ya Slepyan, and B. A. Malomed, Soliton nanoantennas in two-dimensional arrays of quantum dots, *Journal of Physics: Condensed Matter* 27, 225301 (2015)
14. P. P. Beličev, G. Gligorić, A. Maluckov, J. Petrovic, Lj. Hadžievski, and B. A. Malomed, Composite localized modes in discretized spin-orbit-coupled Bose-Einstein condensates, *Journal of Physics B* 48, 065301 (2015)

15. A. Radosavljević, G. Gligorić, A. Maluckov, and M. Stepić, Manipulation of light beam propagation in one-dimensional photonic lattices with linear refractive index profile, *Optics Communications* 335, 194 (2015)
16. S. Kuzmanović, M. Stojanović-Krasić, D. Milović, A. Radosavljević, G. Gligorić, A. Maluckov, and M. Stepić, Defect induced wave-packet dynamics in linear one-dimensional photonic lattices, *Physica Scripta* 90, 025505 (2015)
17. G. Gligorić, A. Maluckov, Lj. Hadžievski, and B. A. Malomed, Localized modes in mini-gaps opened by periodically modulated intersite coupling in two-dimensional nonlinear lattices, *Chaos* 24, 023124 (2014)
18. A. Radosavljević, G. Gligorić, A. Maluckov, and M. Stepić, Control of light propagation in one-dimensional quasi-periodic nonlinear photonic lattices, *Journal of Optics* 16, 025201 (2014)
19. P. P. Beličev, G. Gligorić, A. Maluckov, and M. Stepić, Dynamics of dark solitons localized at structural defect in one-dimensional photonic lattices with defocusing saturable nonlinearity, *Europhysics letters* 104, 14006 (2013)
20. G. Gligorić, A. Maluckov, Lj. Hadžievski, G. Ya. Slepyan, and B. A. Malomed, Discrete solitons in an array of quantum dots, *Physical Review B* 88, 155329 (2013)
21. G. Gligorić, A. Maluckov, Lj. Hadžievski, and B. A. Malomed, Discrete localized modes supported by an inhomogeneous defocusing nonlinearity, *Physical Review E* 88, 032905 (2013)
22. Soo-Young Lee, A. Goussev, O. Georgiou, G. Gligorić, and A. Lazarides, Sticky Goos-Hänchen effect at normal/superconductor interface, *Europhysics letters* 103, 20004 (2013)
23. A. Radosavljević, G. Gligorić, A. Maluckov, M. Stepić, and D. Milović, Light propagation management by disorder and nonlinearity in one-dimensional photonic lattices, *JOSA B* 30, 2340 (2013)
24. A. Maluckov, G. Gligorić, Lj. Hadžievski, B. A. Malomed, and T. Pfau, High- and low-frequency phonon modes in dipolar quantum gases trapped in deep lattices, *Physical Review A* 87, 023623 (2013)
25. G. Gligorić, K. Rayanov, and S. Flach, Make slow fast – How to speed up interacting disordered matter, *Europhysics letters* 101, 10011 (2013)
26. O. Georgiou, G. Gligorić, A. Lazarides, D. F. M. Oliveira, J. D. Bodyfelt, and A. Goussev, Influence of boundary conditions on quantum escape, *Europhysics letters* 100, 20005 (2012)
27. A. Maluckov, J. Petrovic, G. Gligorić, Lj. Hadžievski, P. Lombardi, F. Schäfer, and F. S. Cataliotti, Control of a Bose-Einstein condensate on a chip by external optical and magnetic potentials, *Annals of Physics* 327, 2152 (2012)
28. A. Maluckov, G. Gligorić, Lj. Hadžievski, B. A. Malomed, and T. Pfau, Stable Periodic Density Waves in Dipolar Bose-Einstein Condensates Trapped in Optical Lattices, *Physical Review Letters* 108, 140402 (2012)

29. A. Maluckov, G. Gligorić, Lj. Hadžievski, Long-lived double periodic patterns in dipolar cigar-shaped Bose-Einstein condensates in an optical lattice, *Physica Scripta* T149, 014004 (2012)
30. G. Gligorić, J. D. Bodyfelt, and S. Flach, Interactions destroy dynamical localization with strong and weak chaos, *Europhysics letters* 96, 30004 (2011)
31. J. D. Bodyfelt, T. V. Lapteyeva, G. Gligorić, D. O. Krimer, Ch. Skokos, and S. Flach, Wave interactions in localizing media – A coin with many faces, *International Journal of Bifurcation and Chaos* 21, 2107 (2011)
32. M. D. Petrović, G. Gligorić, A. Maluckov, Lj. Hadžievski, and B. A. Malomed, Interface solitons locally linked two-dimensional lattices , *Physical Review E* 84, 026602 (2011)
33. Lj. Hadžievski, G. Gligorić, A. Maluckov, and B. A. Malomed, Interface solitons in one- dimensional locally coupled lattice systems, *Physical Review A* 82, 033806 (2010)
34. G. Gligorić, A. Maluckov, M. Stepić, Lj. Hadžievski, and B. A. Malomed, Transition to miscibility in lineary coupled binary Bose-Einstein condensation, *Physical Review A* 82, 033624 (2010)
35. G. Gligorić, A. Maluckov, M. Stepić, Lj. Hadžievski, and B. A. Malomed, Discrete vortex solitons in dipolar Bose-Einstein condensates, *Journal of Physics B* 43, 055303 (2010)
36. G. Gligorić, A. Maluckov, M. Stepić, Lj. Hadžievski, and B. A. Malomed, Two-dimensional discrete solitons in dipolar Bose-Einstein condensates, *Physical Review A* 81, 013633 (2010)
37. G. Gligorić, A. Maluckov, L. Salasnich, B. A. Malomed, and Lj. Hadžievski, Two routes to the one-dimensional discrete nonpolynomial Schrödinger equation, *Chaos* Vol. 19, Issue 4, 043105 (2009)
38. G. Gligorić, A. Maluckov, Lj. Hadžievski, and B. A. Malomed, Collapse instability of solitons in the nonpolynomial Schrodinger equation with dipole-dipole interactions, *Journal of Physics B* 42, 145302 (2009)
39. G. Gligorić, A. Maluckov, Lj. Hadžievski, B. A. Malomed, Soliton stability and collapse in the discrete nonpolynomial Schrodinger equation with dipole-dipole interactions, *Physical Review A* 79, 053609 (2009)
40. G. Gligorić, A. Maluckov, Lj. Hadžievski, B. A. Malomed, Bright solitons in the one-dimensional discrete Gross-Pitaevskii equation with dipole-dipole interactions, *Phys. Rev. A* 78, 063615 (2008)
41. N. Bundaleski, G. Gligorić, N. Ivanović, Z. Ristić, Inelastic energy losses of  $\text{He}^+$  ions singly scattered from polycrystalline chromium, *Nuclear Instruments and Methods in Physic Research B* 256, 86 (2007)

42. S. Petrović, N. Bundaleski, M. Radović, Z. Ristić, G. Gligorić, D. Peruško, M. Mitrić, B. Praček, A. Zalar, Z. Rakočević, Surface composition and structure of Ni-Cr sputtered coatings exposed in air at room temperature, Nuclear Instruments and Methods in Physics Research B 256, 368 (2007)
43. S. Petrović, N. Bundaleski, M. Radović, Z. Ristić, G. Gligorić, D. Peruško, S. Zec, Structure and Composition of NiCr Sputtered Thin Films, Science of Sintering 38, 155 (2006)

***Published contributions to academic conferences:***

1. V. Atanasoski, M. D. Ivanović, M. Marinković, G. Gligorić, B. Bojović, A. V. Shvilkin, J. Petrovic, Unsupervised Classification of Premature Ventricular Contractions Based on RR Interval and Heartbeat Morphology, 2018 14th Symposium on Neural Networks and Applications (NEUREL) (2018)
2. A. Wöllert, G. Gligorić, M. M. Škorić, A. Maluckov, N. Raičević, A. Daničić, Lj. Hadžievski, Modulation instability of two-dimensional dipolar Bose-Einstein condensate in a deep optical lattice, Proceedings of the International School and Conference on Photonics- Photonica 09, Acta Physica Polonica A Vol. 116, No.4, pp. 519-521 (2009).
3. G. Gligorić, A. Maluckov, Lj. Hadžievski, B. Influence of dipole-dipole interaction on dynamics of fundamental bright solitons in the 1D nonpolynomial Schrödinger equation, Book of Abstracts LENCOS '09, Sevilla, Spain, pp. 44 (2009).
4. G. Gligorić, A. Maluckov, L. Salasnich, B. Malomed, Lj. Hadžievski, Localized modes in the cigar- shaped Bose-Einstein condensates in a very deep optical lattice, Book of Abstracts CEWQO 2008, Belgrade, Serbia, pp. 34 (2008).
5. A. Maluckov, M. Stepić, G. Gligorić, Lj. Hadžievski, B. Malomed, On Moving Discrete Modes in Nonlinear Lattices, Proceedings of "Let's Face Chaos Through Nonlinear Dynamics" 7th International Summer School and Conference, AIP Conf. Proc. November 13, Volume 1076, pp.142-148 (2008).
6. G. Gligorić, N. Bundaleski, N. Ivanović, Z. Ristić, *Reionization of He<sup>+</sup> Ions Singly Scattered From Polycrystalline Chromium*, Contributed papers of the 23rd SPIG, Kopaonik, Serbia, August 28th – September 1st, p. 163-166 (2006).
7. N. Bundaleski, G. Gligorić, Z. Ristić, S. Petrović, *Investigation of the Polycrystalline Al Sputtering by Different Ions in the keV Energy Region*, Contributed papers of the 23rd SPIG, Kopaonik, Serbia, August 28th – September 1st, p. 219-222 (2006).
8. Z. Ristić, N. Bundaleski, G. Gligorić, Z. Rakočević, *Algorithm for Calculating the Acceptance Area in SIMS Experiment*, Contributed papers of the 23rd SPIG, Kopaonik, Serbia, August 28th – September 1st, p. 227-230 (2006).