

Curriculum Vitae

Name, Surname: Zaza Tokikishvili

Date and place of birth: 21.03.1969 Tbilisi, Georgia

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Education:

1986 Graduation from school

1986- 1993 Studies of physics at Tbilisi State University Tbilisi,
Georgia

Academic Degree: PHD Degree in Physics, Tbilisi State University, 2010

Work Experience:

2010- present Assistant Professor of Physics at the Faculty of Exact and Natural Sciences of Tbilisi Ivane Javakhishvili State University

2000 – 2005 Junior-Researcher of the Faculty of Physics at Ivane Javakhishvili State University

2006-2007 Invited teacher of the Department of Physics of Ivane Javakhishvili State University

2007-2010 Laboratory Engineer of General Physics of Physics Department of Ivane Javakhishvili State University

Participation in Research Projects:

1. "Realization of Logic Gates in Photonic Crystal and Multiferroic Guiding Nanostructures"

Science and Technology Center in Ukraine (STCU), Project Number 6303, The period of project performance is from 01 October 2017 to 31 March 2019

2. Science and Technology center in Ukraine/ Tbilisi State university, № 6084, Optical computer modules on the basis of optical nanocrystalline wavelengths, Researcher 20 2015-2016

3. Shota Rustaveli National Science Foundation, N AR-30/12, "Fully Optical Amplifier and Coding Equipment on Combined Waveguide", Researcher 2013-2015

4. Science and Technology center in Ukraine/ Tbilisi State university. № 09.04 (50503), "Optical impulse management in photon crystals", Researcher 2010-2011

List of Publications:

1. A. Ugulava, **Z. Toklikishvili**, S. Chkhaidze, Sh. Kekutia, Determination of magnetic characteristics of nanoparticles by low-temperature calorimetry methods *Physica B* 513 (2017) 77–81
2. **Z. Toklikishvili**, L. Chotorlishvili, S.K. Mishra, S. Stagraczynski, M. Schüler, A.R.P. Rau and J. Berakdar, Entanglement dynamics of two nitrogen vacancy centers coupled by a nanomechanical resonator. *J. Phys. B: At. Mol. Opt. Phys.* 50 (2017) 055007 (16pp)
3. Michael Schüler, Levan Chotorlishvili, Marius Melz, Alexander Saletsky, Andrey Klavsyuk, **Zaza Toklikishvili**, Jamal Berakdar, Jamal Berekdar, Functionalizing Fe adatoms on Cu(001) as a nanoelectromechanical system, arXiv:1706.08321v1[quant-ph] 26 Jun 2017, Submitted to: *New J. Phys*
4. M. Azimi, M. Sekania, S. K. Mishra, L. Chotorlishvili, **Z. Toklikishvili**, and J. Berakdar, Pulse and quench induced dynamical phase transition in a chiral multiferroic spin chain, *PHYSICAL REVIEW B* **94**, 064423 (2016)
5. L. Chotorlishvili, M. Azimi, S. Stagraczyński, **Z. Toklikishvili**, M. Schüler, and J. Berakdar, Superadiabatic quantum heat engine with a multiferroic working medium, *PHYSICAL REVIEW E* **94**, 032116 (2016)
6. L. Chotorlishvili, **Z. Toklikishvili**, S.R. Etesami, V.K. Dugaev, J. Barnaś, J. Berakdar, Magnon-driven longitudinal spin Seebeck effect in *FN* |and *NFN* | structures: Role of asymmetric in-plane magnetic anisotropy, *Journal of Magnetism and Magnetic Materials* 396 (2015) 254-262

Language Skills:

Georgian: Native

Russian: Good

English: Good

Scientific interests:

Nonlinear Physics, Chaos, Statistical Physics, Magnetism, Quantum information theory and quantum optics