

## 2010 m. VU TFAI VSTS publikacijų sąrašai

### Knygos ir jų dalys

1. Vygintas Gontis, Julius Ruseckas and Aleksejus Kononovičius. A Non-Linear Double Stochastic Model of Return in Financial Markets, In: **Stochastic Control**, Ed. Chris Myers, ISBN: 978-953-307-121-3, InTech, Rijeka, Croatia, 2010, Ch.27, pp.559-580; <http://sciendo.com>.

### Straipsniai ISI žurnaluose

2. R. G. Unanyan, J. Otterbach, and M. Fleischhauer, J. Ruseckas, V. Kudriashov, and G. Juzeliūnas, *Spinor Slow-Light and Dirac Particles with Variable Mass*, Phys. Rev. Lett. **105** 173603 (2010); [doi:10.1103/PhysRevLett.105.173603](https://doi.org/10.1103/PhysRevLett.105.173603).
3. M. Merkl, G. Juzeliūnas and P. Ohberg, *The non-Abelian bosonic quantum ring*, Eur. Phys. J. D **58** (2010); [doi:10.1140/epjd/e2010-00134-4](https://doi.org/10.1140/epjd/e2010-00134-4).
4. G. Juzeliūnas, J. Ruseckas and J. Dalibard, *Generalized Rashba-Dresselhaus spin-orbit coupling for cold atoms*, Phys. Rev. A **81** 053403 (2010); [doi:10.1103/PhysRevA.81.053403](https://doi.org/10.1103/PhysRevA.81.053403).
5. J. Ruseckas, A. Mekys, and G. Juzeliūnas, *Manipulation of Slow Light with Orbital Angular Momentum in Cold Atomic Gases*, Opt. Spektroskop. **108** pp. 438–445 (2010); [doi:10.1134/S0030400X10030197](https://doi.org/10.1134/S0030400X10030197).
6. J. Otterbach, J. Ruseckas, R. G. Unanyan, G. Juzeliūnas, and M. Fleischhauer, *Effective Magnetic Fields for Stationary Light*, Phys. Rev. Lett. **104** 033903 (2010); [doi:10.1103/PhysRevLett.104.033903](https://doi.org/10.1103/PhysRevLett.104.033903).
7. J. Ruseckas and B. Kaulakys, *1/f noise from nonlinear stochastic differential equations*, Phys. Rev. E **81** 031105 (2010); [doi:10.1103/PhysRevE.81.031105](https://doi.org/10.1103/PhysRevE.81.031105).
8. V. Gineitytė, *Terms representing the reorganization of bonding within charge-bond order matrices of reacting molecules*, Int. J. Quant. Chem. **110** (7), p. 1327 (2010); [doi:10.1002/qua.22237](https://doi.org/10.1002/qua.22237).
9. V. Gontis, J. Ruseckas and A. Kononovičius, *A long-range memory stochastic model of the return in financial markets*, Physica A **389**, p. 100–106 (2010); [doi:10.1016/j.physa.2009.09.011](https://doi.org/10.1016/j.physa.2009.09.011).
10. A. Vektarienė, G. Vektaris, *Theoretical studies on the methylsulfenyl chloride addition to propene*, Heteroatom chemistry. **21** (1) p. 1-13 (2010).
11. A.E. Ledesma , C. Contreras , J.Svoboda, A. Vektarienė, S.A. Brandan *Theoretical structures and experimental vibrational spectra of isomeric benzofused thieno [3,2-b] furan compounds*, Journal of Molecular structure. **967** p. 159-165 (2010).
12. P. Serapinas, J. Šalkauskas, Ž. Ežerinskis and A. Acus, *Local thermodynamic equilibrium modeling of ionization of impurities in argon inductively coupled plasma*, Spectrochim. Acta Part B **65**, pp. 15-23 (2010).
13. P. Serapinas, G. Labarraque, P. Charlet, Ž. Ežerinskis and V. Juzikienė, *Method of standard additions for arsenic measurements in water by ICP Sector Field Mass Spectrometry at accuracy comparable to isotope dilution*, J. Anal. At. Spectrom. **25**, pp. 624 – 630 (2010).

### Konferencijų pranešimų medžiaga

14. R. Jančienė, A. Vektarienė, Z. Stumbrevičiūtė, *5-Acetil-2,3,4,5-tetrahidro-1,5-benzodiazepin-2-tionų sąveikos su p-pakeistais bromacetofenonais ypatumai*, Mokslinės konferencijos „Organinė chemija“ pranešimų medžiaga. Kaunas: Technologija, 2010, p. 95-98. ISBN 9955-25-663-2.