

Списък на всички публикации

на гл. ас. д-р Светослав Иванов

A. Публикации в международни научни списания с импакт фактор (IF)

- A1. Ch. Piltz, Th. Sriarunothai, **S. S. Ivanov**, S. Wolk and Ch. Wunderlich, *Versatile microwave-driven trapped ion spin system for quantum information processing*, Science Advances, Vol 2, No. 7 (2016) [PDF](#)
- A2. **S. S. Ivanov** and N. V. Vitanov, *Composite two-qubit gates*, Physical Review A **92**, 022333 (2015) [PDF](#)
- A3. **S. S. Ivanov**, P. A. Ivanov and N. V. Vitanov, *Efficient construction of three- and four-qubit quantum gates by global entangling gates*, Physical Review A **91**, 032311 (2015). [PDF](#)
- A4. E. Dimova, **S. S. Ivanov**, G. Popkirov and N. V. Vitanov, *Highly efficient broadband polarization retarders and tunable polarization filters made of composite stacks of ordinary wave plates*, J. Opt. Soc. Am. A **31**, 5 (2014). [PDF](#)
- A5. **S. S. Ivanov**, N. V. Vitanov and N. V. Korolkova, *Creation of arbitrary Dicke and NOON states of trapped-ion qubits by global addressing with composite pulses*, New J. Phys. **15**, 023039 (11 pages) (2013). [PDF](#)
- A6. P. Ivanov, D. Porras, **S. S. Ivanov** and F Schmidt-Kaler, *Simulation of Jahn-Teller-Dicke magnetic structural phase transition with trapped ions*, J. Phys. B: Atomic, Molecular and Optical Physics **46**, 10 (special issue, 19 pages) (2013) [PDF](#)
- A7. **S. S. Ivanov**, H. S. Tonchev and N. V. Vitanov, *Time-efficient implementation of quantum search with qudits*, Phys. Rev. A **85**, 062321 (2012) [PDF](#)
- A8. T. Peters, **S. S. Ivanov**, D. Englisch, A. A. Rangelov, N. V. Vitanov and T. Halfmann, *Variable ultrabroadband and narrowband composite retarders*, Applied Optics **51**, pp. 7466-7474 (9 pages) (2012) [PDF](#)
- A9. **S. S. Ivanov**, A. A. Rangelov, T. Peters, T. Halfmann and N. V. Vitanov, *Highly-efficient broadband conversion of light polarization by composite retarders*, J. Opt. Soc. Am. A **29**, No. 3 (2012) [PDF](#)
- A10. **S. S. Ivanov** and N. V. Vitanov, *Scalable uniform construction of highly-conditional quantum gates*, Phys. Rev. A **84**, 022319 (2011) [PDF](#)
- A11. **S. S. Ivanov** and N. V. Vitanov, *High-fidelity local addressing of trapped ions and atoms by composite sequences of laser pulses*, Optics Lett. **36**, 1275 (2011) [PDF](#)
- A12. J. Busch, S. De, **S. S Ivanov**, B Torosov, T P Spiller and A Beige, *Cooling atom-cavity systems into entangled states*, Phys. Rev. A **84**, 022316 (2011) [PDF](#)
- A13. **S. S. Ivanov**, P. A. Ivanov, I. E. Linington and N. V. Vitanov, *Scalable quantum search using trapped ions*, Phys. Rev. A **81**, 042328 (2010) [PDF](#)

A14. P. A. Ivanov, **S. S. Ivanov**, N. V. Vitanov, A. Mering, M. Fleischhauer and K. Singer, *Simulation of a quantum phase transition of polaritons with trapped ions*, Phys. Rev. A **80**, 060301 (Rapid communication) (2009) [PDF](#)

A15. M. Krug, T. Bayer, M. Wollenhaupt, C. Sarpe-Tudoran and T. Baumert, **S. S. Ivanov** and N. V. Vitanov, *Coherent strong-field control of multiple states by a single chirped femtosecond laser pulse*, New J. Phys. **11**, 105051 (2009) [PDF](#)

A16. **S. S. Ivanov**, P. A. Ivanov and N. V. Vitanov, *Simple implementation of a quantum search with trapped ions*, Phys. Rev. A **78**, 030301 (Rapid comm.) (2008) [PDF](#)

A17. **S. S. Ivanov** and N. V. Vitanov, *Steering quantum transitions between three crossing energy levels*, Phys. Rev. A **77**, 023406 (2008) [PDF](#)

A18. G. S. Vasilev, **S. S. Ivanov** and N. V. Vitanov, *Degenerate Landau-Zener model: Analytical solution*, Phys. Rev. A **75**, 013417 (2007) [PDF](#)

Б. Публикации в издания без импакт фактор

B1. **S. S. Ivanov**, M. Johanning and Ch. Wunderlich, *Simplified implementation of the quantum Fourier transform with Ising-type Hamiltonians: Example with ion traps*, arXiv:1503.08806 (2015) [PDF](#)

B2. E. Dimova, **S. S. Ivanov**, G. Popkirov and N. V. Vitanov, *Efficient composite broadband polarization retarders and polarization filters*, Journal of Physics, **558**, 012033 (2014). [PDF](#)

B3. Ch. Wunderlich, I. Baumgart, J.M. Cai, **S.S. Ivanov**, Ch. Piltz, M.B. Plenio, Alex Retzker, Th. Sriaunothai, and S. Wolk, *Coherent Quantum Fourier Transform Using 3-Qubit Conditional Gates and Ultrasensitive Magnetometry with RF-Driven Trapped Ions*, OSA QIM (11 pages) (2017).

Брой цитиращи статии с импакт фактор (без автоцитати): 181

H-index въз основа на тези цитирания: 7

Брой статии, в които Светослав Иванов е първи автор: 11