

# ASSIST. STOYAN TSVETKOV, MSc

## Affiliation

Institute of Electronics, Bulgarian Academy of Sciences, lab. "Laser systems"  
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## Education

Technical University – Sofia:  
2000-2004 Bachelor in Electronics Engineering  
2006-2008 Master in Electronics Engineering

## Main research area

Atomic and molecular physics, optics and spectroscopy, quantum electronics

## Specializations

1. Seconded for a period of 10 days (2014) In Pisa, Italy on joint research agreement for research collaboration between BAS and CNR, Italy entitled "Coherent Ramsay resonances in coated cells for use in optical magnetometry."
2. Seconded for a period of 13 days (2015) In Pisa, Italy on joint research agreement for research collaboration between BAS and CNR, Italy entitled "Coherent Ramsay resonances in coated cells for use in optical magnetometry."

## Scientific awards

1. A participant in the research team, awarded for excellence of scientists and teams from BAS, dedicated to 145 anniversary in direction, "Nanosciences, new materials and technologies"
2. Second place SPIE award for best poster presentation: "Light Induced Atomic Desorption Dynamics in Cells with different PDMS coatings" - S. Tsvetkov, S. Gateva, M. Taslakov, E. Mariotti and S. Cartaleva presented to the Eighteenth international school on quantum Electronics "Laser physics and applications" ISQE'2014, 29 September- October 3, 2014, Sozopol, Bulgaria
3. Award for excellence of young scientist for poster presentation by OSA (2016 OSAYoung scientist award) presented to ICSQE'2016, 26-30 September 2016, Sozopol, Bulgaria

## Scientific database:

researcherid: P-1932-2016  
scopus: 56200188800  
<https://scholar.google.bg/citations?user=DRpS0k8AAAAJ&hl>  
[https://www.researchgate.net/profile/Stoyan\\_Tsvetkov](https://www.researchgate.net/profile/Stoyan_Tsvetkov)  
<http://orcid.org/0000-0002-5216-3990>

## Selected scientific publications

1. S. Gozzini, A. Fioretti, A. Lucchesini, L. Marmugi, C. Marinelli, S. Tsvetkov, S. Gateva, S. Cartaleva,  
„Tunable and polarization-controlled high-contrast bright and dark coherent resonances in

potassium“

*Optics Letters* 42 (15), 2930-2933 (2017)

2. S. Tsvetkov, M. Taslakov, S. Gateva  
„Dynamics of the light-induced atomic desorption at homogeneous illumination“  
*Applied Physics B* 123 (3), 92 (2017)
3. S. Tsvetkov, S. Gateva, K. Nasirov, S. Gozzini, E. Mariotti, S. Cartaleva  
„Optical characterization of antirelaxation coatings for photonics applications“  
*Bulg. Chem. Commun.* 48, 173-177 (2016).
4. S. Gozzini, A. Lucchesini, C. Marinelli, L. Marmugi, S. Gateva, S. Tsvetkov, S. Cartaleva  
„Transformation of electromagnetically induced transparency into absorption in thermal potassium optical cell with spin preserving coating“,  
*J. Phys.: Conf. Series* 700(1), 012051 (2016).
5. S. Tsvetkov, M. Taslakov, E. Mariotti, S. Gateva,  
„Light-induced atomic desorption dynamics in cells with different coatings“  
*Proc. SPIE* 9447, 944741 (2015).
6. S. Tsvetkov, M. Taslakov, E. Mariotti, S. Gateva,  
„Light-induced atomic desorption for all-optical control of light“,  
*Journal of the Technical University – Sofia, Plovdiv branch, "Fundamental Sciences and Applications"* vol. 21, 313-316 (2015). ISSN: 1310-8271
7. S. Tsvetkov, M. Taslakov, S. Gateva  
„Modulation of light by light using led for control of alkali atom density“  
*Electronics* 2014, 114-119 (2014).
8. M. Taslakov, S. Tsvetkov, S. Gateva,  
„Light-induced atomic desorption under different types of illumination“  
*J. Phys.: Conf. Series* 514, 012028 (2014).
9. S. Tsvetkov, S. Gateva, M. Taslakov, E. Mariotti, S. Cartaleva,  
„Light-induced atomic desorption in cells with different PDMS coatings“,  
*J. Phys.: Conf. Series* 514, 012030 (2014).