

Danka Stojanović - CV

Date of birth: 22.10.1987.

Place of birth: Belgrade, Serbia



Contact information

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Work experience

July, 2019 - present	Research Associate at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia
October, 2019 – January 2020	Temporary Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar, Doha, Qatar
June, 2013 – July, 2019	Research Assistant at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia
December, 2012 – June, 2013	Junior Research Assistant at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia
June, 2011 – October, 2012	Master student at Center for Solid State Physics and New Materials, Institute of Physics, Belgrade, Serbia
July, 2010 – September, 2010	Bachelor student (IAESTE internship) at Department of physics, University of Duisburg-Essen, Duisburg, Germany

Education

November, 2012 – July, 2018	PhD student at Department of Physical Electronics, School of Electrical Engineering, University of Belgrade, Serbia Thesis title: "Propagation of electromagnetic waves through chiral metamaterials in terahertz frequency range"
November, 2011 – July, 2012	Master student at Department of Physical Electronics, School of Electrical Engineering, University of Belgrade, Serbia Thesis title: "Analysis of Raman spectra of graphene"
June, 2006 – May, 2011	Bachelor student at Department of Physical Electronics, School of Electrical Engineering, University of Belgrade, Serbia Thesis title: "Synthesis and characterization of graphene films"

Current research interests

- Modelling of optical properties of metamaterials and metasurfaces
- Chiral and active metamaterials in terahertz frequency range
- Biomedical signal processing
- Medical diagnostic devices
- Air quality sensors and data processing

Earlier research interests

- Fabrication and characterization of graphene
- Self-assembled photonic structures
- Light transport in two-dimensional colloidal structures

Publications

1. **D. B. Stojanović**, P. P. Beličev, G. Gligorić, M.R.Belić, Lj. Hadžievski, *Circular polarization selective metamaterial absorber in terahertz frequency range*, IEEE J. Sel. Top. Quantum Electron., 27, 4700506 (2020).
2. G. Isić, D. C. Zografopoulos, **D. B. Stojanović**, B. Vasić, M. R. Belić, *Beam Steering Efficiency in Resonant Reflective Metasurfaces*, IEEE J. Sel. Top. Quantum Electron. 27, pp. 4700208 (2020).
3. **D. B. Stojanović**, P. P. Beličev, J. Radovanović, V. Milanović, *Numerical parametric study of chiral effects and group delays in Ω element based terahertz metamaterial*, Phys. Lett. A 383, pp. 1816 (2019).
4. **D. B. Stojanović**, P. P. Beličev, G. Gligorić, Lj. Hadžievski, *Terahertz chiral metamaterial based on twisted closed ring resonators*, J. Phys. D: Appl. Phys., vol. 51, no. 4, pp. 045106 (2018).
5. **D. B. Stojanović**, J. Radovanović, V. Milanović, *Time delay in a terahertz chiral metamaterial slab*, Phys. Rev. A, vol. 94, no. 2, pp. 023848 (2016).
6. **D. B. Stojanović**, J. Radovanović, V. Milanović, *Influence of geometry of terahertz chiral metamaterial on transmission group delays*, Opt. Quant. Electron., vol. 48, no. 4, pp. 272 (2016).
7. **D. Stojanović**, J. Radovanović, V. Milanović, Z. Rakočević, *Ellipsometric data analysis and calculation of ellipsometric parameters of complex materials*, Tehnika, vol. 69, no. 2, pp. 185-189 (2014).
8. **D. Stojanović**, A. Matković, S. Aškrabić, U. Ralević, A. Beltaos, Đ. Jovanović, D. Bajuk-Bogdanović, I. Holclajtner-Antunović, R. Gajić, *Raman spectroscopy of graphene: doping and mapping*, Phys. Scr., vol. 2013, no. T157, pp. 014010 (2013).
9. **D. Stojanović**, N. Woehrl, V. Buck, *Synthesis and characterization of graphene films by Hot Filament CVD*, Phys. Scr., vol. 2012, no. T149, pp. 014068 (2012).

Projects

2021-2023	Participation in the bilateral project Serbia-Turkey: „Tunable Graphene Based Chiral Metamaterial for Terahertz Wave Polarization Modulation “ as Serbian side team lead
July, 2019 – 2023	Participation in COST action CA18223 – Future communications with higher-symmetric engineered artificial materials, as MC substitute
December, 2012 – 2020	Participation in project of Ministry of Education, Science and Technological Development, Republic of Serbia (Project III45005): “Functional, functionalized and advanced nanomaterials”

2017– 2018

Participation in the bilateral project Serbia-Montenegro: “Surface enhanced Raman spectroscopy as a method for monitoring the concentration of inorganic nutrients in sea water”

2016 – 2017

Participation in the bilateral project Serbia-Croatia: “Nanostructured carriers for the controlled release of flavonoids as potential therapists for the treatment of Alzheimer's disease”

Computer skills

- Programming and technical computing languages : PASCAL, C, MATLAB, Python, COMSOL Multiphysics, MATHEMATICA
- Text editors: Latex, Word
- Image editing: Corel DRAW, 3D Studio Max, Origin, Photoshop

Experimental skills

- Characterization techniques: Raman spectroscopy, Spectroscopic ellipsometry, Thermo-mechanical analysis, Contact angle measurement
- Fabrication methods: Chemical vapor deposition, Mechanical exfoliation, Spin-coating , Vertical deposition, Wedge-cell method

Languages

- Serbian : native speaker
- English: advanced level
- French: basic level

Others

- Reviewer for: Physical Review A, Journal of Optics, Optical and Quantum Electronics, Journal of Physics D: Applied Physics, Physical Review Materials и Photonics Technology Letters.
- Member of the Optical Society of Serbia
- Participant at dozens Scientific Conferences and Workshops
- Organization of the children workshop at International day of light 2018, Belgrade, Serbia
- Organization of VII International School and Conference on Photonics, 26-30 August 2019, Belgrade, Serbia