

# Danka Stojanović - CV

Date of birth: 22.10.1987.

Place of birth: Belgrade, Serbia



## Contact information

---

Vinča Institute of Nuclear Sciences  
Mike Petrovića Alasa 12-14  
11000 Belgrade, Serbia

E-mail: [dankas@vin.bg.ac.rs](mailto:dankas@vin.bg.ac.rs)  
Phone: +381 113408632  
Web: <http://pstar.vinca.rs/>

## Work experience

---

June, 2013 – Present	Research Associate at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia
December, 2012 – June, 2013	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 metamaterials
- Terahertz frequency range

## 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, J. Radovanović, V. Milanović, *Numerical parametric study of chiral effects and group delays in  $\Omega$  element based terahertz metamaterial*, Phys. Lett. A (2019).
2. **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).
3. **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).
4. **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).
5. **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).
6. **D. Stojanović**, A. Matković, S. Aškračić, 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).
7. **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

---

December, 2012 – Present	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 three journals: Optical and Quantum Electronics, Journal of Physics D: Applied Physics and 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