



Curriculum Vitae

Name and family name: **Goran Sretenović**

Research or academic title: **Research Associate**

Institution: University of Belgrade, Faculty of Physics, Studentskitrg 12,
11000 Belgrade, Serbia

Contact e-mail: sretenovic@ff.bg.ac.rs

Links to public pages:

<https://scholar.google.com/citations?user=EoFAXoIAAAAJ&hl=en>

<https://orcid.org/0000-0003-4817-4723>

<http://www.scopus.com/inward/authorDetails.url?authorID=37078230700&partnerID=MN8TOARS>



Education

2015 PhD in Physics of Plasmas, University of Belgrade, Faculty of Physics

2008 MSc in Physics, University of Belgrade, Faculty of Physics

2006 Graduate studies in Physics, University of Belgrade, Faculty of Physics

Employment

2016-present Research Associate, University of Belgrade, Faculty of Physics

2011-2016 Research Assistant, University of Belgrade, Faculty of Physics

2008-2011 Junior Research Assistant, University of Belgrade, Faculty of Physics

2007 Physics teacher, Braća Baruh Elementary school, Belgrade

Research field/ area

Diagnostics, construction and applications of low temperature plasma and electrical gas discharges at atmospheric pressure (plasma jet, streamer corona, dielectric barrier discharge); Application of low-temperature plasma sources for environmental problems (treatment of emission gases and waste water); Plasma medicine; Diagnostics of low temperature plasma–electrical measurement, plasma spectroscopy (in particular, measurement of the electric field strength in different plasma sources and development of new methods); Low temperature plasma processes for material properties improvement; Optical emission spectroscopy.

He is collaborating with: Leibniz Institute for Plasma Science and Technology (INP) Greifswald, Germany; Department of Chemical Sciences, University of Padua, Italy; University of Technology in Eindhoven, The Netherlands; LPP, Ecole Polytechnique, Paris; GREMI Laboratory, University of Orleans, France; B I . Stepanov Institute of Physics of the NASB Belarus; Zhejiang University, Hangzhou, China.

Publications and Citations

He published 26 papers in international journals and more than 60 contributions in international conference proceedings. He gave 3 invited talks at international conferences.

Citations (from SCOPUS on 29.03.2023.): 750

Hirsch index: 13



List of selected publications

1. V V Kovačević; G B Sretenović; B M Obradović; M M Kuraica Low-temperature plasmas in contact with liquids—a review of recent progress and challenges *J. Phys. D: Appl. Phys.* 55 (2022) 473002
2. G B Sretenović; M Saleem; O Biondo; G Tomei; E Marotta; C Paradisi Spectroscopic study of self-pulsing discharge with liquid electrode *Journal of Applied Physics* 129 (2021) 183308
3. G B Sretenović; P S Iskrenović; V V Kovačević; M M Kuraica Two competing mechanisms of plasma action on a jet flow *Appl. Phys. Lett.* 118 (2021) 124102
4. M. Saleem, O. Biondo, G. Sretenović, G. Tomei, M. Magarotto, D. Pavarin, E. Marotta, C. Paradisi, Comparative performance assessment of plasma reactors for the treatment of PFOA; reactor design, kinetics, mineralization and energy yield, *Chemical Engineering Journal*, 382 (2020) 123031
5. S. Iseni, R. Michaud, P. Lefauchaux, G. B. Sretenović, V. Schulz-von der Gathen and R. Dussart, On the validity of neutral gas temperature by emission spectroscopy in micro-discharges close to atmospheric pressure, *Plasma Sources Science and Technology*, 28 (2019) 065003
6. G.B. Sretenović, P.S. Iskrenović, I.B. Krstić, V.V. Kovačević, B.M. Obradović, M.M. Kuraica, Quantitative analysis of plasma action on gas flow in a He plasma jet, *Plasma Sources Science and Technology*, 27 (2018)
7. V.V. Kovačević, G.B. Sretenović, E. Slikboer, O. Guaitella, A. Sobota, M.M. Kuraica, The effect of liquid target on a nonthermal plasma jet - Imaging, electric fields, visualization of gas flow and optical emission spectroscopy, *Journal of Physics D: Applied Physics*, 51 (2018) 065202
8. G.B. Sretenović, O. Guaitella, A. Sobota, I.B. Krstić, V.V. Kovačević, B.M. Obradović, M.M. Kuraica, Electric field measurement in the dielectric tube of helium atmospheric pressure plasma jet, *J. Appl. Phys.*, 121 (2017) 123304
9. G.B. Sretenović, I.B. Krstić, V.V. Kovačević, B.M. Obradović, M.M. Kuraica, The isolated head model of the plasma bullet/streamer propagation: Electric field-velocity relation, *Journal of Physics D: Applied Physics*, 47 (2014)
10. G.B. Sretenović, I.B. Krstić, V.V. Kovačević, B.M. Obradović, M.M. Kuraica, Spatio-temporally resolved electric field measurements in helium plasma jet, *Journal of Physics D: Applied Physics*, 47 (2014)
11. S. Ivković, G.B. Sretenović, B.M. Obradović, N. Cvetanović, M.M. Kuraica, On the use of the intensity ratio of He lines for electric field measurements in atmospheric pressure dielectric barrier discharge, *Journal of Physics D: Applied Physics*, 47 (2014)
12. G.B. Sretenović, I.B. Krstić, V.V. Kovačević, B.M. Obradović, M.M. Kuraica, Spectroscopic measurement of electric field in atmospheric-pressure plasma jet operating in bullet mode, *Appl. Phys. Lett.*, 99 (2011).
13. Obradović, B.M., Sretenović, G.B., Kuraica, M.M., A dual-use of DBD plasma for simultaneous NO_x and SO₂ removal from coal-combustion flue gas, *Journal of Hazardous Materials*, 2011, 185(2-3), pp. 1280–1286



List of relevant previous projects or activities

2019-2020 Project of bilateral collaboration between Serbia and Germany – “Diagnostics of a single microdischarge in contact with liquids” (PI)

2011-2019 Diagnostics and optimization of plasma sources important for applications, funded by Ministry of Education, Science and Technological development of the Republic of Serbia (MEST) (Participant)

2016-2017 Project of bilateral collaboration between Serbia and France – “Cross E-field: complementary advanced diagnostics of E-field in cold atmospheric plasma jets for biological and medical applications” (Participant)

2016-2017 Project of bilateral collaboration between Serbia and Germany – “Novel diagnostic methods on plasma jets” (Participant)

2014-2015 Project of bilateral collaboration between Serbia and Germany – “Studies of the physical and chemical processes in non-equilibrium atmospheric pressure plasmas by advanced volume and surface diagnostics” (Participant)

Other academic and research activities (honors, awards, scholarships, committees, journal reviewers, etc.)

- Award for the best young scientist at the University of Belgrade, Faculty of Physics in 2014.
- Reviewer of the Year 2017 of the Journal of Physics D: Applied Physics
- Outstanding reviewer of the Journal of Physics D: Applied Physics of 2016.
- 2019 – Veneto region grant. Project 2105-43-11-2018: “Novel atmospheric plasma based process for the treatment and recycle of PFAS contaminated water – WaterPLAS”
- Young Researcher Grant at the 23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG) held in Slovakia in 2016 awarded by EPS
- Student prize for the best poster at 11th Frontiers in Low Temperature Plasma Diagnostics in France in 2015.
- DAAD grant for research stay at University of Greifswald, Institute of Physics, Greifswald (Germany) under supervision of Dr. Hans-Erich Wagner (September – December 2011)
- Over 40 scientific article reviews for several international journals: Plasma Sources Science and Technology, Journal of Physics D: Applied Physics, Water Science and Technology, New Journal of Physics, Chemical Engineering Research and Design, Plasma Science and Technology, Physics of Plasmas, IEEE TPS and Polish Journal of Chemical Technology
- Member of the organizing committee of international conferences (FLTPD XII 2017, 28th SPIG 2016, 4th CESPC 2011, 25th SPIG 2010) and XII Congress of Serbian Physicists 2013
- Member of the Serbian Physical Society