

# Gordana Vuković

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## *Curriculum vitae*

### **Work experience**

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- March, 2014 – Research Assistent of Environmental Physics Laboratory,  
Institute of Physics, University of Belgrade, Belgrade, Serbia
- March, 2013 – March, 2014 Research Assistent of Environmental Physics Laboratory,  
Institute of Physics, University of Belgrade, Belgrade, Serbia

### **Education**

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- 2012 – 2015 Doctoral academic studies in chemistry, The Faculty of Chemistry, University of Belgrade, Serbia
- Title of the Doctoral Dissertation:  
*“Biomonitoring of urban air pollution (particulate matter, trace elements and polycyclic aromatic hydrocarbons) using mosses Sphagnum girgensohnii Russow and Hypnum cupressiforme Hedw.”*
- 2011 – 2012 Master academic studies in chemistry, The Faculty of Chemistry, University of Belgrade, Serbia
- Title of the Master Thesis:  
*“Active moss biomonitoring of small-scale spatial distribution of airborne major and trace elements in the street canyons and city tunnel using Sphagnum girgensohnii Russow”*
- 2007 – 2011 Basic academic studies in environmental chemistry, The Faculty of Chemistry, University of Belgrade, Serbia
- Title of the Graduate Thesis:  
*“BCR sequential extraction of river sediments and reservoirs throughout Serbia”*

## **Papers published in international journals**

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1. **Vuković G.**, Aničić Urošević M., Škrivanj S., Milićević T., Dimitrijević D., Tomašević M., Popović A. (2015): *Moss bag biomonitoring of airborne toxic element decrease on a small scale: a street study in Belgrade, Serbia*, Science of the Total Environment, 542:394–403.
2. **Vuković G.**, Aničić Urošević M., Pergal M., Janković M., Goryainova Z., Tomašević M., Popović A. (2015): *Residential heating contribution to persistent air pollutants (PAHs, trace and rare earth elements): A moss bag case study*, Environmental Science and Pollution Research, DOI: 10.1007/s11356-015-5096-0.
3. Deljanin I., Antanasijević D., **Vuković G.**, Aničić Urošević M., Tomašević M., Perić-Grujić A., Ristić M. (2015): *Lead spatio-temporal pattern identification in urban microenvironments using moss bags and the Kohonen self-organizing maps*, Atmospheric Environment 117:180–186.
4. **Vuković G.**, Aničić Urošević M., Goryainova Z., Pergal M., Škrivanj S., Samson R., Popović A. (2015): *Active moss biomonitoring for extensive screening of urban air pollution: Magnetic and chemical analyses*, Science of the Total Environment 521–522:200–210.
5. **Vuković G.**, Aničić Urošević M., Tomašević M., Samson R., Popović A. (2015): *Biomagnetic monitoring of urban air pollution using moss bags (Sphagnum girgensohnii)*, Ecological Indicators 52:40–47.
6. **Vuković G.**, Aničić Urošević M., Razumenić I., Kuzmanoski M., Pergal M., Škrivanj S., Popović A. (2014): *Air quality in urban parking garages (PM10, major and trace elements, PAHs): Instrumental measurements vs. Active moss biomonitoring*, Atmospheric Environment 85:31–40.
7. **Vuković G.**, Aničić Urošević M., Razumenić I., Goryainova Z., Frontasyeva M., Tomašević M., Popović A. (2013): *Active moss biomonitoring of small-scale spatial distribution of airborne major and trace elements in the Belgrade urban area*, Environmental Science and Pollution Research 20:5461–5470.

## **International meetings (Conferences)**

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1. **Vuković G.**, Aničić Urošević M., Škrivanj S., Milićević T., Dimitrijević D., Tomašević M., Popović A. (2015): *Upgrade of micro-scale siting of airborne toxic elements by moss bag technique: crossroad, two- and one-lane street study (oral presentation)*, 5<sup>th</sup> International WeBIOPATR Workshop & Conference, October 14–16, Belgrade, Serbia, Book of Abstracts, p. 42, <https://www.vin.bg.ac.rs/webiopatr/#Workshop/Abstracts-and-papers>
2. Tomašević M., Aničić Urošević M., **Vuković G.**, Deljanin I. (2015): *Plant biomonitoring in urban air quality studies: tree leaves and moss (oral presentation)*, XIX INTERNATIONAL ECO-CONFERENCE, September 23–25, Novi Sad, Serbia, Book of Abstracts, pp. 63–70.

3. **Vuković G.**, Aničić Urošević M., Tomašević M., Samson R., Popović A. (2015): *Biomagnetic monitoring of urban air pollution using moss bags (*Sphagnum girgensohnii*)* (oral presentation), 7<sup>th</sup> International Workshop on Biomonitoring of Atmospheric Pollution (BIOMAP 7), June 14–19, Lisbon, Portugal, Book of abstracts, p. 63.

4. Aničić Urošević M., **Vuković G.**, Tomašević M., Frontasyeva M.V., Popović A. (2015): *Is moss bag technique a suitable approach for monitoring of air pollution in urban environment?* (oral presentation), 7<sup>th</sup> International Workshop on Biomonitoring of Atmospheric Pollution (BIOMAP 7), June 14–19, Lisbon, Portugal, Book of abstracts, p. 48.

5. Aničić Urošević M., **Vuković G.**, Tomašević M., Goryainova Z., Škrivanj S., Pergal M., Samson R., Popović A. (2015): *Active moss biomonitoring: An approach for extensive screening of air pollution over urban area - Belgrade case study* (poster presentation), 7<sup>th</sup> International Workshop on Biomonitoring of Atmospheric Pollution (BIOMAP 7), June 14–19, Lisbon, Portugal, Book of abstracts, p. 67.

6. Goryainova Z., **Vuković G.**, Aničić Urošević M., Vergel K.N., Ostrovnaya T.M., Frontasyeva M.V., Zechmeister H. (2015): *Assessment of vertical element distribution in street canyons of Belgrade and Moscow using moss transplant technique* (poster presentation), ICP Vegetation 28<sup>th</sup> Task Force Meeting, February 3–5, Rome, Italy, Book of Abstracts, p. 67.

7. Deljanin I., **Vuković G.**, Aničić Urošević M., Antanasijević D., Tomašević M., Perić-Grujić A., Ristić M. (2014): *Active moss biomonitoring of lead isotope composition in public parking garages and tunnel in Belgrade urban area* (poster presentation), Book of Abstracts, 51<sup>th</sup> Meeting of Serbian Chemical Society and 2nd International Conference of Young Chemists of Serbia, Niš, Serbia, June 5–7, 2014, p. 57.

8. **Vuković G.**, Aničić Urošević M., Kuzmanoski M., Tomašević M., Pergal M., Popović A. (2013): *Health risk assessment of pollutants (PAHs and heavy metals) associated with PM10 in urban parking garages* (oral presentation), 4<sup>th</sup> International WeBIOPATR Workshop & Conference, October 2–4, Belgrade, Serbia, Book of Abstracts, p. 38, <http://www.vin.bg.ac.rs/webiopatr/>

9. Deljanin I., **Vuković G.**, Aničić Urošević M., Antanasijević D., Tomašević M., Perić-Grujić A., Ristić M. (2013): *Active moss biomonitoring of lead isotopic composition in Belgrade urban area* (poster presentation), 8<sup>th</sup> International Conference of the Chemical Societies of the South-East European Countries, June 27–29, Belgrade, Serbia, Book of Abstracts, p. 47, <http://www.shd.org.rs/Icosecs8/>

10. Aničić Urošević M., **Vuković G.**, Razumenić I., Goryainova Z., Frontasyeva M., Tomašević M., Popović A. (2012): *Active moss biomonitoring of small scale inner city spatial distribution of ambient trace elements in Belgrade urban area* (oral presentation), Biomonitoring Air Quality Symposium, November 12–14, Antwerp, Belgium, Proceedings, pp. 24–27, <http://www.ua.ac.be/main.aspx?c=BIOMAQ>

11. Aničić M., **Vuković G.**, Razumenić I., Goryainova Z., Frontasyeva M., Tomašević M., Popović A. (2012): *Active Moss Biomonitoring of Trace Element Distribution in Belgrade Canyon Streets* (poster presentation), Urban Environmental Pollution – Create healthy, liveable cities, 17–20 June, Amsterdam, The Netherlands, P1. 63. <http://www.uepconference.com/>

12. Lazić L., Aničić M., **Vuković G.**, Tasić M., Rajšić S., Mijić Z.: *Modelling of local traffic contributions to particulate air pollution in Belgrade street canyons using WinOSPM model (poster presentation)*, Urban Environmental Pollution – Create healthy, liveable cities, 17–20 June, Amsterdam, The Netherlands, P2.112. <http://www.uepconference.com/>

## **National meetings (Conferences)**

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1. **Vuković G.**, Aničić Urošević M., Škrivanj S., Tomašević M., Popović A. (2015): *Moss-bag biomonitoring for screening urban air pollution: An extensive case study for Belgrade (oral presentation)*, 7<sup>th</sup> Symposium Chemistry and Environmental Protection, June 9–12, Palić, Serbia, Book of abstracts, pp. 73–74, [http://www.envirochem.rs/res/EC2015\\_Book\\_of\\_Abstracts.pdf](http://www.envirochem.rs/res/EC2015_Book_of_Abstracts.pdf)

2. **Vuković G.**, Aničić Urošević M., Milićević T., Tomašević M., Škrivanj S., Popović A. (2015): *Moss-bag biomonitoring of small-scale decline in toxic element content: crossroad, two- and one-lane street study (poster presentation)*, 7<sup>th</sup> Symposium Chemistry and Environmental Protection, June 9–12, Palić, Serbia, Book of abstracts, pp. 192–193, [http://www.envirochem.rs/res/EC2015\\_Book\\_of\\_Abstracts.pdf](http://www.envirochem.rs/res/EC2015_Book_of_Abstracts.pdf)

3. **Vuković G.**, Aničić Urošević M., Tomašević M., Razumenić I., Škrivanj S., Popović A. (2013): *Air quality in urban parking garages: Instrumental monitoring vs active moss biomonitoring (poster presentation)*, 6<sup>th</sup> Symposium Chemistry and Environmental Protection EnviroChem, May 21–24, Vršac, Serbia, Book of Abstracts, pp. 136–137, [http://www.envirochem2013.com/res/EC2013\\_Book\\_of\\_abstracts.pdf](http://www.envirochem2013.com/res/EC2013_Book_of_abstracts.pdf)

4. Aničić Urošević M., Tomašević M., **Vuković G.**, Frontasyeva M., Popović A. (2013): *Active moss biomonitoring of airborne trace elements in the Belgrade urban area: State of the art (invited lecture)*, 6<sup>th</sup> Symposium Chemistry and Environmental Protection EnviroChem, May 21–24, Vršac, Serbia, Book of Abstracts, pp. 44–45, [http://www.envirochem2013.com/res/EC2013\\_Book\\_of\\_abstracts.pdf](http://www.envirochem2013.com/res/EC2013_Book_of_abstracts.pdf)

## **Projects**

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2011 – : “*Investigation of climate change and its influences on environment*” – Monitoring the Influences, Adaptations, and Offsets – III 43007

2013: “*Active biomonitoring of airborne major and trace elements in the Belgrade urban area using moss bags technique*”, financially supported by the Secretariat for Environmental Protection, Belgrade

2014: “*Biomonitoring of heavy metals in the air along the main roads of the city of Belgrade*”, financially supported by the company NIS Novi Sad and the City of Belgrade

## **Awards**

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2015: The First award of the Foundation “Dr Milena Dalmacija”, for the doctoral thesis which has made the greatest scientific contribution in the field of environmental protection at the universities in the Republic of Serbia during the period from October 2012. to October 2015

2012: Special recognition of Serbian Chemical Society for remarkable achievement during the basic study at the Faculty of Chemistry