

## Curriculum Vitae Svetlana Sushkova



### 1. Address:

#### office:

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**2. Languages:** English, Russian

**3. Date of birth:** 08.06.1986

### 4. Education:

2013 – to present Dr. of Soil Science. Lomonosov Moscow State University, Faculty of Soil Science, Dr. thesis "Evaluation of benzo[a]pyrene content in soil and plants of Novochoerkassk Power Station emission zone" –

2008-2012 - Southern Federal University, Department of Biology, postgraduate student.  
Direction/speciality – 03.00.27. Soil science. Specialization – the Ecological-economic estimation of the soils.

2003-2008 – B.Sc.-M.Sc. Southern Federal University, Department of Biology, graduate student.  
Direction/speciality – Soil science. Specialization – Ecological-Economic Estimation of the Soils.

### 5. Professional Experience:

2014-present – Academy of Biology and Biotechnology Southern Federal University, Assoc.Prof.Dr., Head of laboratory “Ecological soil monitoring”; Vice-Director on International Collaboration;

2009-2014 – Department of Biology Southern Federal University, Scientific Research Institute of Biology, Junior Researcher;

2009-present — Technology Transfer Office Southern Federal University “Tehnopark RSU”, Director of Small Enterprise “SCF-Rostov-on-Don”;

2008-2009 – Department of Chemistry Southern Federal University, Scientific Research Institute of Physics and Organic Chemistry, Junior Researcher;

2005-2006 – Department of Chemistry Southern Federal University, Ecologically-Analytical Center of the South of Russia, Senior Laboratory Assistant.

### 6. Membership:

2003 – to present Member of Dokuchaev Society of Soil Scientists.

2014 - to present Member of Eurasian Soil Science Societies.

Member of organizing committee 9th International Soil Science Congress on "The Soul of Soil and Civilization" Antalya-Turkey, October 14-16, 2014;  
 The Member of the Russian Society of soil scientists of V. V. Dokuchayev;  
 Member of editorial board of the international scientific journal Eurasian Journal of Soil Science, [www.fesss.org](http://www.fesss.org)

**7. Area of expertise:** Biogeochemistry of Organic Pollutants, Environmental Soil Chemistry

**8. Teaching duties:** Lectures of methods of soil chemical analysis. Supervision of bachelors' projects.

**9. Training course:**

2015- lectures in English on the theme «Innovation techniques in soil science» for masters of Agricultural Faculty of Selcuk University (Konya, Turkey).

2014-lectures in English on the theme «Using of subcritical technologies and techniques in soil science» for Master's of Soil science and plant nutrition department at Agricultural faculty of Ondokuz Majis University (Samsun, Turkey).

2014 – Lectures in English of the theme «Soil Pollution by Heavy Metals: Determination and Measurement» masters 1 and 2 years of training of Department of soil science and plant nutrition, Faculty of Agriculture of Ordu university (Ordu, Turkey).

2011 - – Lectures in English of the theme «Subcritical water extraction of quercetin» during CRDF commercialization travel grant, Babson College (USA, Boston).

**10. Total scientific publications:** 162 (45 in English)

**Monographs:** 2

**Publications:** Web of Science – 11, Scopus – 25, h-index (Scopus) – 3

**11. Awards and Grants**

**Awards:** The winner of 3 projects for young scientists supported by Russian Foundation for Basic Research. The winner of receiving grants competition of the President of the Russian Federation for the state support of young Russian scientists in 2015. The winner of the workshop on commercialization of technologies which is carried out by the Civilian Research and Development Foundation (CRDF, USA) at the Southern Federal University in October, 2010. In 2011 passed training in the leading educational institutions of Boston (USA) on training in commercialization models of scientific and technical products and questions of patenting of intellectual property in the USA. Represented innovative development of Southern Federal University at the International Venture exhibition TechConnectWorld 2011. The project manager START-UP of Fund of Assistance to Development of Small Forms of the Enterprises in the Scientific and Technical Sphere. Has experience of the management of the small enterprises which is engaged in commercialization and introduction of results of the scientific and technical products received within scientific researches. Was the performer in 26 grants of the Ministry of Education and Science of the Russian Federation, the Russian Federal Property Fund, the Civilian Research and Development Foundation (CRDF), Council for the Russian President's grants.

In December, 2012 successfully defended the PhD at Lomonosov Moscow State University. Holds 4 patents of the Russian Federation in a scope of innovative environmentally friendly development. Took part in 28 international and 4 Russian conferences, participated in the organization 2 of the international and 1 regional scientific conference.

**Grants:** The scientific leader of five scientific projects of Russian Fund of Basic Researches, the Foundation of President of Russian Federation, Civilian Research and Development Foundation (USA) and six scientific projects of the Ministry of Education and Science of the Russian Federation and 14 Russian and International traveling grants.

**List of basic publications indexed in Web of Science and Scopus databases:**

1. Sushkova S.N., Minkina T.M., Bolotova O.V., Vasilyeva G.V., Borisenko N.I., Mandzhieva S.S., Turina I.G., Varduni T.V., Kizilkaya R. New alternative method of benzo[a]pyrene extraction from soils and its approbation in soil under technogenic pressure // *Journal of Soil and Sediments. Special Issue: Soil Pollution and Remediation*, 2015, pp. 1-7. DOI: 10.1007/s11368-015-1104-8 <http://link.springer.com/article/10.1007/s11368-015-1104-8>
2. Sushkova S., Minkina T., Batukaev A., Turina I., Mandzhieva S., Vasilyeva G., Kizilkaya R., Zamulina I., Akca I. Analysis of Benzo[a]Pyrene Contamination from an LongTerm Contaminated Soil // *American Journal of Biochemistry and Biotechnology* 2015, DOI: 10.3844/ajbbbsp.2015.
3. Sushkova S., Minkina T., Mandzhieva S., Turina I., Bolotova O., Vasilyeva G., Varduni T., Kizilkaya R. Solubility of benzo[a]pyrene and organic matter of chernozem in subcritical water // *Croatica Chemica Acta* 2015, 88(3): 247-253. DOI: 10.5562/cca2640
4. Bauer T., Minkina T., Mandzhieva S., Nevidomskaya D., Burachevskaya M., Nazarenko O., Sushkova S. The mechanisms of lead absorption of soil particles depending on metal composition applying from anthropogenic sources // *Middle-East Journal of Scientific Research*. 2015. 23 (3): 519-522, 2015. ISSN 1990-9233. DOI: 10.5829/idosi.mejsr.2015.23.03.22103
5. Varduni T.V., Minkina T.M., Gorbov S.N., Mandzhieva S.S., Buraeva E.A., Omel'chenko G.V., Shimanskaya E.I., V'yukhina A.A., Tagiverdiev S.S., Sushkova S.N. Analysis of heavy metals in pylaisiella moss (*Pylaisia Polyantha*) growing in the city of Rostov-on-Don // *Middle-East Journal of Scientific Research* 23 (2): 165-169, 2015. ISSN 1990-9233. DOI: 10.5829/idosi.mejsr.2015.23.02.22066
6. Kizilkaya R., Sahin N., Tatar D., Veyisoglu A., Askın T., Sushkova S.N., Minkina T.M. Isolation and Identification of Bacterial Strains from Decomposing Hazelnut Husk // *Compost Science & Utilization*, 23:174–184, 2015 DOI: 10.1080/1065657X.2015.1014578
7. Mandzhieva S.S., Minkina T.M., Chaplugin V.A., Motuzova G.V., Sushkova S.N., Bauer T.V., Nevidomskaya D.G. Plant contamination by heavy metals in the impact zone // *Journal of Soils and Sediments. Special Issue: Soil Pollution and Remediation*, 2015, pp. 1-9. DOI 10.1007/s11368-015-1098-2. <http://link.springer.com/article/10.1007/s11368-015-1098-2>
8. Minkina T.M., Bauer T.V., Batukaev A.A., Mandzhieva S.S., Burachevskaya M.V., Sushkova S.N., Varduni T.V., Sherstnev A.K., Kalinichenko V.P. Transformation of technogenic Cu and Zn compounds in chernozem // *Environmental Engineering and Management Journal*. February 2015, Vol.14, No. 2, 481-486. <http://omicron.ch.tuiasi.ro/EEMJ/>
9. Minkina T.M., D.L. Pinskii, S.S. Mandzhieva, T.V. Bauer, A.A. Batukaev, S.N. Sushkova, A.K. Sherstnev, S.U. Bakoev. Desorption of Exchangeable Cations at Adsorption of Lead Ions by Chernozem in the Presence of Attendant Anions // *American Journal of Environmental Sciences* 2015. Vol. 11, Is. 5, pp. 325-332 DOI : 10.3844/ajessp.2015.325.332
10. Akca, I., R. Kizilkaya; T. Minkina and S. Sushkova Efficiency of Neem Azal T/S formulation on *Philosciamuscoram* (Scopoli, 1763) (Isopoda;Philosciid'fle // *Egyptian Journal of Biological Pest Control*. 2015. 25 (1). 67-69.
11. Kizilkaya R., Samofalova I., Mudrykh N., Mikailsoy F., Acsa I., Sushkova S., Minkina T. Assessing the impact of azadirachtin application to soil on urease activity and its kinetic parameters // *Turkish Journal of Agriculture and Forestry*. 2015. 39. P. 976-983. DOI: 10.3906/tar-1406-85. Manuscript code number: tar-1406-85.
12. Bauer T.V., Minkina T.M., Pinskii D.L., Mandzhieva S.S., Sushkova S.N. Adsorption of copper by ordinary and southern chernozems from solutions of different salts // *Journal of Geochemical Exploration*. 2015. In press.
13. Minkina T.M., Miroshnichenko N.N., Fateev A.I., Motuzova G.V., Mandzhieva S.S., Sushkova S.N., Biryukova O.A. Features of Microelement Composition of Ordinary

- Chernozems of the Azov and Lower Don Regions // American Journal of Agricultural and Biological Sciences, 2015, 10 (3): 111.115. DOI: 10.3844/ajabssp.2015.111.115
14. Mandzhieva S.S., Minkina T.M., Chaplygin V.A., Bauer T.V., Burachevskaya M.V., Nevidomskaya D.G., Sushkova S.N., Sherstnev A.K., Zamulina I.V. Protective mechanism of the soil–plant system with respect to heavy metals // Journal of Soils Sediments, SI: Phytoremediation of Polluted Soils: Recent Progress and Developments. P. 1-10. 2015. DOI 10.1007/s11368-015-1324-y
  15. Mandzhieva S. S., Minkina T. M., Sushkova S. N., Motuzova G. V., Bauer T. V., Chaplygin V. A. The Group Composition of Metal Compounds in Soil as an Index of Soil Ecological State // American Journal of agricultural and biological sciences. 2014. V 9. N. 1. P. 19-24. ISSN 1557-4989. Doi:10.3844/ajabssp. 2014.19.24 Published Online 9 (1) 2014 (<http://www.thescipub.com/ajabs.toc>)
  16. Svetlana N. Sushkova, Galina K. Vasilyeva, Tatjana M. Minkina, Saglara S. Mandzhieva, Irina G. Tjurina, Sergei I. Kolesnikov, Ridvan Kizilkaya, Tayfun Askin. New method for benzo[a]pyrene analysis in plant material using subcritical water extraction // Journal of Geochemical Exploration 139. <http://dx.doi.org/10.1016/j.gexplo.2014.02.018>
  17. Mandzhieva S. S., Minkina T. M., Sushkova S. N., Motuzova G. V., Bauer T. V., Chaplygin V. A. The Group Composition of Metal Compounds in Soil as an Index of Soil Ecological State // American Journal of agricultural and biological sciences. 2014. V 9 (1). pp. 19-24. DOI:10.3844/ajabssp.2014.19.24 IF 2012 1.36 <http://thescipub.com/abstract/10.3844/ajabssp.2014.19.24>
  18. Mandzhieva S.S., Minkina T.M., Burachevskaya M.V., Kravtsova N.E., Chaplygin V.A., Lutsenko E.K., Sushkova S.N. and Sherstnev A.K.. Features of nutrient uptake by spring barley grain at the contamination of chernozem with zinc and lead // Middle-East journal of scientific research. 22 (6): 859-863, 2014.
  19. Endovitskii A.P., Kalinichenko V.P., Minkina T.M., Mandzhieva S.S., Sushkova S.N. Lead Status in Chernozem of the Krasnodar Krai After the Application of Phosphogypsum // Middle-East Journal of Scientific Research 22 (7): 954-959, 2014. DOI: 10.5829/idosi.mejsr.2014.22.07.21980
  20. Minkina Tatiana, Mandzhieva Saglara, Bauer Tatiana, Nevidomskaya Dina, Sushkova Svetlana and Burachevskaya Marina. New Approach in Studying of Zinc Compounds in Soil // World Applied Sciences Journal. 2013. 26 (2): P. 177-180. <http://www.idosi.org/wasj/wasj26%282%2913/6.pdf>
  21. Sushkova S.N., Minkina T.M., Mandzhieva S.S., Tjurina I.G. Elaboration and Approbation of Methods for Benzo[a]pyrene Extraction from Soils for Monitoring of the Ecological State in Technogenic Landscapes // World Applied Sciences Journal 25 (10): 1432-1437, 2013 ISSN 1818-4952 DOI: 10.5829/idosi.wasj.2013.25.10.11237
  22. Minkina T. M., Pinskii D. L., Mandzhieva S. S., Antonenko E. M., and Sushkova S. N. Effect of the particle size distribution on the adsorption of copper, lead, and zinc by chernozemic soils of Rostov oblast // Eurasian Soil Science. 2011. Vol. 44. No. 11. P. 1193–1200.