



CURRICULUM VITAE

Kristina V. Ivashchenko

1. Personal information

Nationality:	Russian
Civil status:	Russian
Date of birth:	22 th March 1989
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2. Education

2017 Candidate of Biological Sciences (PhD)	Specialty: Microbiology. The work was done in the Institute of Physicochemical and Biological Problems in Soil Science, Russian Academy of Sciences (ISSP, RAS), Carbon and Nitrogen Soil Cycles Lab. Defense of thesis "Abundance and respiration activity of soil microbial community under anthropogenic transformation of terrestrial ecosystems" was in the Lomonosov Moscow State University, Soil Science faculty, Moscow, Russia
2013-2016	PhD-student, Institute of Physicochemical and Biological Problems in Soil Science, RAS, Carbon and Nitrogen Soil Cycles Lab, Pushchino, Russia
2013 Master degree (diploma with honor)	System Ecology Department, Biology faculty, Pushchino State Institute of Natural Sciences, Pushchino, Russia
2011 Vocational Graduate Diploma (with honor)	Geoecology Department, Geography faculty, Kuban State University, Krasnodar, Russia

3. Work experience

2018-present	Researcher , Carbon and Nitrogen Soil Cycles Lab, Institute of Physicochemical and Biological Problems in Soil Science, RAS Senior Lecturer , Department of Landscape Design and Sustainable Ecosystems, Agrarian- technological Institute, Peoples' Friendship University of Russia (teaching the following courses: «Urban Ecology», «Data analysis and statistics in ecology and landscape study in R»)
2015 - 2018	Junior Researcher , Carbon and Nitrogen Soil Cycles Lab, Institute of Physicochemical and Biological Problems in Soil Science, RAS Assistant of professor , Technosphere Safety Department, Agrarian- technological Institute, Peoples' Friendship University of Russia (teaching the following courses: «Ecology», «Data analysis and statistics in ecology and landscape study in R»)
2011-2015	Engineer , Carbon and Nitrogen Soil Cycles Lab, Institute of Physicochemical and Biological Problems in Soil Science, RAS

4. Key words

Environment, terrestrial ecosystem, soil, anthropogenic transformed ecosystem, soil microbial community, microbial activity, functional diversity of soil microbes, soil CO₂ emission

5. Publications

Google Scholar https://scholar.google.ru/citations?hl=ru&user=dOpKR9AAAAAJ&view_op=list_works

Scopus ID: 55759518400

WoS ResearcherID: M-6569-2016

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6. Participation in research projects (for the last five years)

Grants of Russian Fund of Basic Research #15-54-53117 “Qualitative and quantitative assessment of urban soil carbon stocks in representative urban ecosystems of China and Russia” (2015-2016);
15-04-00915 “Soil microbial component and its spatial distribution under anthropogenic transformation of terrestrial ecosystems” (2015-2017);
15-29-02724 “Natural and anthropogenic mechanisms to maintain, restore and change of biodiversity in the broad-leaved deciduous forest zone” (2015-2017);
17-44-500297 “Grass fire effects on species and ecosystem diversity of the abandoned agricultural lands in the south of Moscow region” (2017-2018);
19-05-50112 Biogenic characteristics of microparticles in big cities: structure of microbial community, pathogenicity and driving factors (2019-2022);
20-04-00148 Soil microbial functional diversity and enzymatic activity in the urban forest parks of various biomes (2019-2022);
18-54-41004 Spatial analysis and projecting desertification effect on soil functions in Hungry Steppe (for the case of Syrdarya Province) (2018-2020).

The Russian Science Foundation

#19-77-30012 “Smart technologies to monitor, model and evaluate ecosystem services provided by urban green infrastructure and soils to support decision making in sustainable city development under global changes (2019-2023)”;
#17-77-20046 “Modeling and development of technologies to provide a sustainable soil construction functioning in the megapolis” (2017-2020).

Grant supervisor

Russian Fund of Basic Research # 16-34-00398 “Contribution of microbial respiration in the greenhouse gas (CO₂) emission by soils of natural and anthropogenically transformed ecosystems” (2015-2017)

Russian Fund of Basic Research # 20-34-70121 “Functional structure of the soil microbial community in forests and meadows along the elevation gradient: the case study for the Northwestern Caucasus” (2019-2021)

7. Participation in international scientific events

2019	European Geosciences Union General Assembly (Vienna, Austria, oral and poster presentations)
2017	Wageningen Soil Conference 2017 (Wageningen, the Netherlands, poster presentation)
	SUITMA 9 (Moscow, Russia, oral and poster presentations)
2016	Scientific seminar of the Department of Forest Resources and Environment of Nanjing Forest University (Nanjing, China, oral presentation)
	Scientific seminar of Agrochemistry and Soil Science Lab., the University of Cordoba (Cordoba, Spain, oral presentation)
	5-th International European Soil Science Congress (Istanbul, Turkey, oral presentation)
	European Geosciences Union General Assembly (Vienna, Austria, poster presentation)
2014	The First Global Soil Biodiversity Conference (Dijon, France, poster presentation)
	9-th International Eurasian Soil Science Congress (Side, Turkey, poster presentation)
2013	International Soil Science Conference (Ulm, Germany, poster presentation)

8. Awards

2019	Awards of the Moscow region' Governor in the science and innovation fields for young scientists and specialists (https://mii.mosreg.ru/download/document/2048109)
2018	Youth Outstanding Paper Award for the paper “Technosols on Mining Wastes in the Subarctic: Efficiency of Remediation under Heavy Metals' Aerial Pollution (The second International Youth Forum on Soil and Water Conservation, Moscow, Russia)
2016-2017	Governmental scholarship for PhD-students, awarded by the President of the Russian Federation (Order No. 1184, September 12, 2016)

2016	1-st place in the city competition in nomination “Research work of PhD-students”, awarded by the Mayor of Pushchino city, Moscow region
2013	2-st place in the competition of ISSP “Research work of PhD-students”, awarded by the Director of ISSP, RAS

List of the papers (2013-2020)

- 1) Cerevkova A., **Ivashchenko K.**, Miklisova D., Ananyeva N., Renco M. Influence of invasion by Sosnowsky's hogweed on nematodecommunities and microbial activity in forest and grassland ecosystems. *Global Ecology and Conservation* 2020. V. 21. e00851
- 2) **Ivashchenko K.**, Ananyeva N., Vasenev V., Sushko S., Seleznyova A. and Kuderyarov V. Microbial C-availability and organic matter decomposition in urban soils of megapolis depend on functional zoning. *Soil Environ.* 2019. V. 38 (1). P. 31-41. DOI:10.25252/SE/19/6152
- 3) Sushko S., Ananyeva N., **Ivashchenko K.** and Kuderyarov V.N. Carbon dioxide emission, microbial biomass and basal respiration of Chernozems at different land use. *Eurasian Soil Science*. 2019. N 9. In press.
- 4) **Ivashchenko K.**, Ananyeva N., Sushko S., Paltseva A., Seleznyova A., Plushchikov V. and Kuderyarov V. Fungal and bacterial respiration in urban Technosols vs. natural soils. In book: *Green technologies and infrastructure to enhance urban ecosystem services*. Springer Geography, 2019. P. 88-99. DOI: 10.1007/978-3-030-16091-3_12
- 5) Slukovskaya M.V., Viacheslav V.I., **Ivashchenko K.V.**, Morev D.V., Drogobuzhskaya S.V., Ivanova L.A., Kremenetskaya I.P. Technosols on mining wastes in the subarctic: Efficiency of remediation under Cu-Ni atmospheric pollution. *International Soil and Water Conservation Research*. 2019. In press. DOI: 10.1016/j.iswcr.2019.04.002
- 6) Demina S., Vasenev V., **Ivashchenko K.**, Ananyeva N., Plyushchikov V., Hajiaghayeva R., Dovletyarova E. Microbial Properties of Urban Soils With Different Land-Use History in New Moscow. *Soil Science*. 2018. 183(4):132–140.
- 7) Kudrevatykh I.Yu., **Ivashchenko K.V.**, Ananyeva N.D., Ivanishcheva E. A. Atmospheric Nitrogen Deposition and the Properties of Soils in Forests of Vologda Region // *Eurasian Soil Science*. 2018. V. 51. P. 153-162.
- 8) Sushko S., Ananyeva N., **Ivashchenko K.**, Vasenev V., Kuderyarov V. Soil CO₂ emission, microbial biomass, and microbial respiration of woody and grassy areas in Moscow (Russia). *Journal of Soils and Sediments*. 2018. doi.org/10.1007/s11368-018-2151-8
- 9) Vasenev V.I., Smagin A.V., Ananyeva N.D., **Ivashchenko K.V.**, Gavrilenko E.G., Prokofeva T.V., Patlseva A., Stoorvogel J.J., Gosse D.D. and Valentini R. Urban Soil's Functions: Monitoring Assessment and Management / In *Adaptive Soil Management: From Theory to Practices*, A. Rakshit et al. (eds.). Springer Nature Singapore. 2017. P. 359-409
- 10) Vasenev V.I., Stoorvogel J.J., Dolgikh A.V., Ananyeva N.D., **Ivashchenko K.V.** Changes in soil organic carbon stocks by urbanization / In *Advance in soil science „Urban Soils“*, R. Lal, B.A. Stewart (Eds.). CRC Press Taylor and Francis Group, New York. 2017. P. 61-93.
- 11) Dovletyarova E.A., Mosina L.V., Vasenev V.I., Ananyeva N.D., Patlseva A., and **Ivashchenko K.V.** Monitoring and Assessing Anthropogenic Influence on Soil's Health in Urban Forests: The Case From Moscow City / In *Adaptive Soil Management: From Theory to Practices*, A. Rakshit et al. (eds.). Springer Nature Singapore. 2017. P. 531-557.
- 12) Sushko S.V., Ananyeva N.D., **Ivashchenko K.V.**, Vasenev V.I., Sarzhanov D. A. Soil microbial respiration in the field and laboratory conditions. *Agrophysica*. 2016. N. 4. P. 17-23.
- 13) Vasenev V.I., Stoorvogel J.J., Plyushchikov V.G., Ananyeva N.D., Ivashchenko K.V., Romzaykina O.N. Basal respiration as a proxy to understand spatial trends in CO₂ emissions in the Moscow region. *RUDN Journal of Agronomy and Animal Industries*. 2016. N. 4. P. 94-106.
- 14) Ananyeva N.D., Rogovaya S.V., **Ivashchenko K.V.**, Vasenev V.I., Sarzhanov D.A., Ryzhkov O.V., Kuderyarov V.N. Carbon dioxide emission and soil microbial respiration activity of Chernozems under anthropogenic transformation of terrestrial ecosystems. *Eurasian Journal of Soil Science*. 2016. V.5. N. 2. P. 146-154.
- 15) Vasenev V.I., Stoorvogel J.J., Ananyeva N.D., **Ivashchenko K.V.**, Sarzhanov D.A., Epikhina A.S., Vasenev I.I., Valentini R. Quantifying spatial-temporal variability of carbon stocks and fluxes in urban

- soils: from local monitoring to regional modeling. / In Carbon footprint handbook, S.S. Muthu (Ed.). CRC Press. Boca Raton. 2015. P. 185-222.
- 16) **Ivashchenko K.**, Ananyeva N., Vasenev V., Ryzhkov O., Kudeyarov V., Valentini R. Soil microbial biomass and gas-production activity (CO₂) in Chernozems under different land use. *Soil-Water Journal. Special Issue.* 2015. P.43-50.
 - 17) Ananyeva N.D., **Ivashchenko K.V.**, Stolnikova E.V., Stepanov A.L. and Kudeyarov V.N. Specific features of determination of the net production of nitrous oxide by soils. *Eurasian Soil Science.* 2015. V. 48. N. 6. P. 608-619.
 - 18) Averkieva I.Yu., **Ivashchenko K.V.** The impact of anthropogenic emission of nitrogen on the functioning of forests in the European part of Russia. *Izvestia RAN. Geography Series.* 2015. N. 2. P. 95-103.
 - 19) Ananyeva N.D., Stolnikova E.V., **Ivashchenko K.V.**, Vasenev V.I. Microbial soil component, its structure and producing of green house gases. *Agroecology.* 2014. N. 1. P. 19-27.
 - 20) **Ivashchenko K.V.**, Ananyeva N.D., Vasenev V.I., Kudeyarov V.N., Valentini R. Biomass and respiration activity of soil microorganisms in anthropogenically transformed ecosystems (Moscow region). *Eurasian Soil Science.* 2014. V. 47. N. 9. P. 892-903.
 - 21) Vasenev V.I., Ananyeva N.D., **Ivashchenko K.V.** The effect of pollutants (heavy metals and diesel fuel) on the respiratory activity of constructozems (artificial soils). *Russian Journal of Ecology.* 2013. V. 44. Issue 6. P. 475-483.
 - 22) Semenov M.V., Stolnikova E.V., Ananyeva N.D., **Ivashchenko K.V.** Structure of the microbial community in soil catena of the right bank of the Oka River. *Biology Bulletin.* 2013. V. 40. N. 3. P. 266-274.