

CURRICULUM VITAE

SURNAME **FRONTASYEVA** FIRST NAME(S) **Marina**

Official address:

Department of Neutron Activation Analysis, Frank Laboratory of Neutron Physics
Joint Institute for Nuclear Research, 141980 Dubna Moscow Region, RUSSIA



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Date and place of birth: September 20, 1946, Smolensk, Russia

Nationality: Russian

Education (degrees, dates, universities)

1970 Physical Faculty, Department of Theoretical and Nuclear Physics, Saratov State University
1974 Postgraduate courses of Saratov State University
1982 Candidate of Physics and Mathematical Sciences, JINR, Dubna
1997 Associate Professor

Career/Employment (employers, positions and actes)

1974 - 1977 Junior Scientist, Saratov State University
1977 - 1982 Research Scientist, Joint Institute for Nuclear Research
1982 - 1989 Section Head
1989 - 1997 Senior Scientist
1997 - present Head of the Department of Neutron Activation Analysis
1997 – present Associate Professor of Department of Chemistry of the International University of Dubna

Specialization (specify)

- (i) **main field:** Neutron activation analysis (NAA) for studying the environment
- (ii) **other fields:** NAA for geology, biology, high technologies and new materials
- (iii) **current research interest**
Study of atmospheric pollutants on the regional and continental scale using nuclear and related techniques and GIS (geographical information systems) technology. Monitoring the anthropogenic impact on the environment

Honours, Awards, Fellowships, Membership of Professional Societies

1997 - present Member, International Committee on Activation Analysis (ICAA)
1992 - 1997 Member, Editorial Board of the Int. Journal "The Science of the Total Environment" (STOTEN)
1994 - 2009 Scientific Secretary of the Scientific Council on Applied Nuclear Physics of the Russian Academy of Sciences
1999- present Member of the Scientific Council on Analytical Chemistry of RAS
2005- present Member, Editorial Board of the Int. Journal of Nuclear and Radiation Physics (JNRP)
2006- present Member, Editorial Board of the «Chimie» (Analele Stiintifice ale "Alexandru Ioan Cuza" din IASA Universitatii. ISSN:1221-5341)
2008- present Member, Editorial Board of the Journal of Science and Art, Romania
2009-present Member, Editorial Board of the Journal of Natural Sciences ("Scientific Research Publishing"), USA
May 2009 - State Prize of the Government of Republic of Macedonia for the "Geochemical Atlas of Veles and the environs"

Publications (list selected publications on separate page)

- **Number of papers in refereed journals:** 280 (more than 250 of them are dedicated to NAA), two books, two patents of Russian Federation
- **Number of communications to scientific meetings:** About 70 oral presentations at international scientific meetings.

**List of work by the NAA Department of FLNP JINR published in
the refereed journals, books, JINR editions and conference proceedings**

**Список работ сектора НАА НЭОФЯ ЛНФ ОИЯИ, опубликованных в
реферируемых журналах, книгах, изданиях ОИЯИ и трудах конференций**

2012

1. M.V. T. Kalabegishvili, E. Kirkesali, A. Rcheulishvili, E. Ginturi, I. Murusidze, D. Pataraya, M. Gurrielidze, G. Tservadze, V. Gabunia, M. V. Frontasyeva, S.S. Pavlov, I. Zinicovscaia, M.J. Raven, M.M.F. Seaga, A. Faanhof. Synthesis of gold nanoparticles by blue-green alga *Spirulina platensis*. Submitted to *Journal of Nanoscience and Nanotechnology*, March, 2012.
2. P. Lazo, M. Vasjari, M.V. Frontesayeva, T. Stafilov, F. Malaj, I. Gjika. Active moss biomonitoring technique used to study atmospheric deposition of heavy metals in Tirana and Vlora cities, Albania. Accepted by *Fresenius Environmental Bulletin* (March, 2012).
3. H. Harmens, I. Ilyin, G. Mills, J.R. Aboal, R. Alber, O. Blume, M. Coşkun, L. De Temmerman, J.Á. Fernández, R. Figueira, M. Frontasyeva, B. Godzikj, N. Goltsova, Z. Zeran, S. Korzekwa, E. Kubinn, K. Kvietkus, S. Leblond, S. Liiv, S.H. Magnússon, B. Maňkovská, O. Nikodemus, R. Pesch, J. Poikolainen, D. Radnović, Å. Rühling, J.M. Santamaría, W. Schröder, Z. Spiric, T. Stafilov, E. Steinnes, I. Suchara, L. Thöni, G. Turcsányi, G. Tabors, L. Yurukova, H.G. Zechmeister. Country-specific correlations across Europe between modelled atmospheric cadmium and lead deposition and concentrations in mosses. Accepted by *Environmental Pollution* (January, 2012).
4. M.V. Frontasyeva, S.S. Pavlov, I.I. Zinicovscaia, E.I. Kirkesali, T.L. Kalabegishvili, I.G. Murusidze, A. Faanhof. Application of some microorganisms for synthesis of gold and silver nanoparticles. Submitted to *JINR Communications*, January 2012.
5. M.V. Frontasyeva. Air pollution studies in Russia based on moss analysis: past, present and future. *EuCheMS Chemistry Congress*, August 26-30, 2012, Prague, Czech Republic.
6. M.V. Frontasyeva. Living Ethics for the global chemistry youth. *EuCheMS Chemistry Congress*, August 26-30, 2012, Prague, Czech Republic.
7. M. Aničić, G. Vuković, I. Razumenić, Z.I. Goryainova, M.V. Frontasyeva, M. Tomašević, A. Popović. Active moss biomonitoring of trace element distribution in Belgrade canyon streets. Book of Abstracts, ICURPT 2012: International Conference on Urban, Regional Planning and Transportation. Amsterdam, Netherlands, May 13-14, 2012.
8. M.V. Frontasyeva. The moss technique for mapping atmospheric deposition patterns of trace elements and radionuclides in relation to the Fukushima nuclear disaster. The First International Conference on Radiation and Dosimetry in Various Fields of Research (RAD 2012)”. Nis, Serbia, April 25-27, 2012. www.rad2012.elfak.rs.
9. M.V. Frontasyeva. NAA for Life Sciences at FLNP JINR. The 5th International Conference on Ecological Chemistry 2012, Chisinau, Republic of Moldova, March 2-3, 2012. <http://ecochem2012.mrda.md/>.
10. T.L. Kalabegishvili, I. Murusidze, D.T. Pataraya, E. Ginturi, M.V. Frontasyeva, E. I.Kirkesali, Gh. Duca, I. Zinicovscaia. Mercury adsorption by Arthobacter globiformis and *Spirulina platensis*. The 5th International Conference on Ecological Chemistry 2012, Chisinau, Republic of Moldova, March 2-3, 2012. <http://ecochem2012.mrda.md/>.
11. I. Zinicovscaia. Chromium removal from wastewater using microalga *Spirulina platensis*, *Nostok* and *Porphyridium*. The 5th International Conference on Ecological Chemistry 2012, Chisinau, Republic of Moldova, March 2-3, 2012. <http://ecochem2012.mrda.md/>.
12. O.G. Duliu, O.A. Culicov, G. Oaie, M.V. Frontasyeva, C. Cristache. Heavy metall pollution of the euxinic Black Sea Sediments. The 5th International Conference on Ecological Chemistry 2012, Chisinau, Republic of Moldova, March 2-3, 2012. <http://ecochem2012.mrda.md/>.
13. M. Frontasyeva. Moss biomonitoring in Russia: past, present and future. The 25th UNECE ICP Task Force Meeting (January 31-February 2, 2012, Brescia, Italy). Book of Abstracts, 2012, p. 25.
14. P. Lazo, M. Vasjari, T. Stafilov, M.V. Frontesayeva, M. Terpo, K. Baceva. Moss biomonitoring in Albania: present and future. The 25th UNECE ICP Task Force Meeting (January 31-February 2, 2012, Brescia, Italy). Book of Abstracts, 2012, p. 32.
15. P. Lazo, M. Vasjari, M.V. Frontesayeva, T. Stafilov, F. Malaj, I. Gjika. Moss bag biomonitoring in Albania. The 25th UNECE ICP Task Force Meeting (January 31-February 2, 2012, Brescia, Italy). Book of Abstracts, 2012, p. 52.
16. Z. Spiric, M. Frontasyeva, T. Stafilov, V. Kusan, E. Steinnes, I. Vuckovic. Moss biomonitoring in Croatia 2010. The 25th UNECE ICP Task Force Meeting (January 31-February 2, 2012, Brescia, Italy). Book of Abstracts, 2012, p. 39.
17. T. Stafilov, L. Barandovski, M. Frontasyeva, R. Šajn, E. Steinnes. Moss biomonitoring of atmospheric pollution with heavy metals in the Republic of Macedonia. The 25th UNECE ICP Task Force Meeting (January 31-February 2, 2012, Brescia, Italy). Book of Abstracts, 2012, p. 40.
18. B. Mankovska, J. Oslanyi, M.V. Frontasyeva, Z. Goryainova. Concentration of elements in teeth of roe deer (*Capreolus capreolus* L.). The 25th UNECE ICP Task Force Meeting (January 31-February 2, 2012, Brescia, Italy). Book of Abstracts, 2012, p. 54.
19. Z. Spiric, V. Kusan, D. Barisic, B. Vekic, M. Frontasyeva. Atmospheric deposition of airborne radionuclides in Croatia studied by the moss biomonitoring technique. The 25th UNECE ICP Task Force Meeting (January 31-February 2, 2012, Brescia, Italy). Book of Abstracts, 2012, p. 59.

2011

20. М.В. Фронтасьева. Нейтронный активационный анализ в науках о жизни. Обзор. «Физика элементарных частиц и атомного ядра», 2011, Том. 42, № 2 р. 636-716 (in Russian). ([H index 5](#))
M.V. Frontasyeva. Neutron activation analysis for the Life Sciences. A review. “Physics of Particles and Nuclei”, 2011, Vol. 42, No. 2, p. 332-378 (in English). <http://www.springerlink.com/content/f83672323443m27/>
21. M. Krmar, D. Radnović, and M.V. Frontasyeva. Moss biomonitoring technique used to study spatial and temporal atmospheric deposition of heavy metals and airborne radionuclides. In “Advances in Environmental Modeling and Measurement”, Edts. Mihailović & Lalić, Nova Science Publishers, Inc.USA, 2011.
22. T.L. Kalabegishvili, E.I. Kirkesali, I.G. Murusidze, G.I. Tservadze, M.V. Frontasyeva, I. Zinicovscaia, V.Y. Shklover, N.V. Shvindina. Characterization of microbial synthesis of silver and gold nanoparticles with electron microscopy techniques. *Journal of Advanced Microscopy Research*, Vol. 6, 2011, p. 1–5.
23. N. Tsibakhashvili, E.I. Kirkesali, D.T. Pataraya, M.A. Gurjelidze, T.L. Kalabegishvili, D.N. Gvarjaladze, G.I. Tservadze, M.V. Frontasyeva, I.I. Zinicovscaia, M.S. Wakstein, S.N. Khakhanov, N.V. Shvindina, V.Ya. Shklover. Microbial synthesis of silver nanoparticles by *Streptomyces glaucus* and *Spirulina platensis*. *International Journal Advanced Science Letters*, Vol. 4, 2011, p. 1–10.
24. S.V. Gorelova, M.V. Frontasyeva, L. Yurukova, M. Coşkun, A. Pantelica, K. Saitanis, M. Tomasevic, M. Anicic. Revitalization of urban ecosystems through vascular plants: preliminary results from the BSEC-PDF project. Proceedings of *International Conference on Environmental Pollution and Clean Bio/Phytoremediation*, CEPR (16-19 June, 2010, Pisa, Italy). *Agrochimica*, Vol. 55, No. 21 January-February, 2011, p. 65-84 (impact factor 0.279).
25. Z. Spirić, M.V. Frontasyeva, E. Steinnes, T. Stafilov. Multielement atmospheric deposition study in Croatia. *International Journal of Environmental Analytical Chemistry*, 2011, p. 1-15, iFirst, DOI: 10.1080/03067319.2010.561336.
26. M.V. Frontasyeva, E.I. Kirkesali. Epithermal neutron activation analysis in applied microbiology. *Journal of Radioanalytical and Nuclear Chemistry* (Specil issue of MTAA-13 Proceedings), March 13-18, 2011, College Station, Texas, USA. Vol. 286, No. 2, 2010, p. 519–524. <http://www.springerlink.com/content/p730m22h7h2605x3/>
27. T.L. Kalabegishvili, I. Murusidze, D.T. Pataraya, E. Ginturi, M.V. Frontasyeva, E.I. Kirkesali, Gh. Duca, I. Zinicovscaia. Mercury adsorption by *Arthrobacter globiformis* and *Spirulina platensis*. *Chemistry Journal of Moldova. General, Industrial and Ecological Chemistry*. №. 6 (1), 2011, p. 6-9.
28. P. Vermaercke, L. Sneyers, F. Farina Arbocco, Yu. Aleksiyanak. Using k_0 -UNAA for the determination of depleted uranium in the moss biomonitoring technique. *International Journal of Environment and Health*, Vol. 5, No. 1/2, 2011, pp.72-83. DOI:10.1504/IJENVH.2011.039858
29. N. Baljinnyam, B. Jugder, N. Norov, M.V. Frontasyeva, T.M. Ostrovnaya, S.S. Pavlov. Epithermal neutron activation analysis of the Asian herbal plants, ISINN-18 (26-29 May, 2010, Dubna), 2010 p. 15 and, and 2nd International Ulaanbaatar Conference on Nuclear Physics and Applications, UBC 2010, 26-30 July, Mongolia 2010. *American Institute of Physics Conference Proceedings Series*. Edts Dugersuren Dashdorj & Gary Mitchell, Vol.1342, Melville. New York, USA, 2011, ISSN 0094-243X p. 85-87.
30. S. B. Borzakov, B. Nyamsuren, S. S. Pavlov, T. M. Ostrovnaya, V.N. Shvetsov. The Investigation of the Rare Metal Content in the Geological Samples from Mongolia on the IREN Facility. ISINN-18 (26-29 May, 2010, Dubna), *Proceeding of the Seminar*, 2011, p. 298-300, 2011 and 2nd International Ulaanbaatar Conference on Nuclear Physics and Applications, UBC 2010, 26-30 July, Mongolia 2010, *American Institute of Physics Conference Proceedings Series*. Edts Dugersuren Dashdorj & Gary Mitchell, Vol.1342, Melville. New York, USA, 2011, ISSN 0094-243X p. 88-91.
31. N. Tsibakhashvili, E.I. Kirkesali, E. Gintury, D. Pataraya, M. Gurjelidze, T. Kalabegishvili, D. Gvarjaladze, G. Tservadze, M.V. Frontasyeva, I. Zinicovscaia, M.S. Wakstein, S.N. Khakhanov, N.V. Shvindina, V.Ya. Shklover. Microbial synthesis of silver nanoparticles. *International Journal Advanced Science Letters*; Vol. 4, 2011, p. 1-10. *JINR Preprint*, E-14-2011-17, Dubna, 2011.
32. М.В. Фронтасьева, С.С. Павлов, А.И. Белокобыльский, Е.И. Киркесали, Э.Н. Гинтури. Биотехнология создания субстанций фармацевтических препаратов на основе *Spirulina platensis*. Принята в печать журналом *Вопросы биологической, медицинской и фармацевтической химии*, УДК 543. 522.
M.V. Frontasyeva, S.S. Pavlov, A.I. Belokobylsky, E.I. Kirkesali, E.N. Ginturi. Biotechnology of development of pharmaceutical substances based on *Spirulina platensis*. Accepted by *Problems of Biological, Medical, and Pharmaceutical Chemistry*.
33. M. Krmar, K. Wattanavatee, J. Slivka, T. Bhongsuwan, M. Frontasyeva, S. Pavlov. Airborne radionuclides in mosses collected at different latitudes. Accepted by *Journal of Environmental Radioactivity*.
34. T. Kalabegishvili, E. Kirkesali, A. Rcheulishvili, E. Ginturi, I. Murusidze, D. Pataraya, M. Gurjelidze, G. Tservadze, V. Gabunia, L. Lomidze, D. Gvarjaladze, M. V. Frontasyeva, S.S. Pavlov, I. Zinicovskaia, M.J. Raven, M.M.F. Seaga, A. Faanhof. Synthesis of gold nanoparticles by some strains of *Arthrobacter* genera. Accepted by *Journal of Material Science and Engineering* (ISSN 1934-8959, USA).
35. I. Sykora, P. Povinec, L. Brestakova, M. Florek, K. Holý, J. Masarik, M.V. Frontasyeva, E. Steinnes. Variations of ^{137}Cs and ^{40}K in the surface air of Bratislava (Slovakia) – indications for soil resuspension processes. Submitted to *Atmospheric Environment* (July 2011).
36. Yu. V. Aleksiyanak, M.V. Frontasyeva, M. Florek, I. Sykora, K. Holy, J. Masarik, M.Jeskovsky, L. Brestakova, E. Steinnes, A. Faanhof, K.I. Ramathlape. Distribution of ^{137}Cs and ^{210}Pb in moss collected from Belarus and Slovakia. Accepted by *Journal of Environmental Radioactivity*.
37. O.G. Duliu, S.I. Lyapunov, A.V. Gorbunov, C. Ricman, T. Brustur, S. A. Szobotka, R.G. Dimitriu, C. Pop, M.V. Frontasyeva, M. Iovea. On the heavy elements content of sediments and rocks from two semiclosed ecosystems: proglacial lake Bâlea (Fagaras Mountainins) and crater lake St. Ana (Harghita Mountains). Submitted to *Geologica Carpathica* (<http://www.geologicacarpatica.sk/src/main.php>).
38. O.G. Duliu, C.I. Cristache, G. Oaie, O.A. Culicov, M.V. Frontasyeva, M. Toma, E. Constantinescu. On the elemental and mineralogical compositon of some sediments collected from the anoxic shelf of the Black Sea. Submitted to *Geo-Marine Letters* (Springer), 2010.
39. Hung Luu Viet, My Trinh Thi Thu, O.D Maslov, Nhan Dang Duc, M.V. Frontasyeva, M.V. Gustova. Behavior of rare earth elements in systems of plants and typical soils of northern Vietnam. Submitted to *Journal of Rare Earths*.

40. L.S. Smirnov, A.I. Baranov, V.V. Dolbinina, M.V. Frontasyeva, S.S. Pavlov, Yu.S. Pankratova. Modulated Crystal structures of phases VII and V in $(\text{NH}_4)_3\text{H}(\text{SO}_4)_2$. Neutron Laue Diffraction. Accepted by *Crystallography (Кристаллография)* (in English); JINR Preprint, E14-2010-37, 2010, pp. 5.
41. A. Pantelica, M.V. Frontasyeva, C. Oprea, M.J.J. Koster-Ammerlaan, Thea van Meerten, P. Bode, V. Cercasov, I.I. Georgescu, E. Pincovschi. Elemental concentrations in air and drinking water inside a fertilizer plant in Romania determined by instrumental neutron activation analysis. Submitted to Proceedings of Simpozion International "Mediu si Industria" (SIMI 2011), Bucharest, November 16-18, 2011.
42. Вергель К.Н., Фронтасьева М.В., Каманина И.З. Биомониторинг атмосферных выпадений тяжелых металлов и других токсичных элементов с помощью мхов на примере северо-востока московской области. VIII Всероссийской научной конференции молодых ученых и студентов «Современное состояние и приоритеты развития фундаментальных наук в регионах» 1–5 октября 2011 г. Краснодарский край, г. Анапа.
43. Горяннова З.И., Манковска Б., Фронтасьева М.В. Элементный состав зубов европейской косули (*Capreolus capreolus* L.) как биоиндикатор антропогенного загрязнения в Словакии. VIII Всероссийской научной конференции молодых ученых и студентов «Современное состояние и приоритеты развития фундаментальных наук в регионах» 1–5 октября 2011 г. Краснодарский край, г. Анапа.
44. N. Ya. Tsigashvili, E. I. Kirkesali, D. T. Pataraya, M. A. Gurielidze, T. L. Kalabegishvili, D. N. Gvarjaladze, G. I. Tsartsadze, M. V. Frontasyeva, I. I. Zinicovskaia, M. S. Wakstein, S. N. Khakhanov, N. V. Shvindina, V. Ya. Shklover. Microbial synthesis of silver nanoparticles by *Streptomyces glaucus* and *Spirulina platensis*. Proceedings of 1st International Conference on Nanomaterials & Properties (NAP-2011, September 27-30, 2011, Alushta, Ukraine, <http://nap.sumdu.edu.ua/>), p. 311-314.
45. M.V. Frontasyeva. Nuclear and related analytical techniques for bio-nano-technology. Proceedings of 1st International Conference on Nanomaterials & Properties (NAP-2011, September 27-30, 2011, Alushta, Ukraine, <http://nap.sumdu.edu.ua/>), p. 306-310.
46. B.Mankovska, J. Oszlányi, A. Tuchekova, M. Florek, M.V. Frontasyeva, S.S. Pavlov. Long-term mapping as method for critical evaluation of ecosystem pollution. Proceedings of the XVIII International Seminar on Interaction of Neutrons with Nuclei (ISINN-18, 27-29 May, Dubna, 2010), ISBN 978-5-9530-0277-6, 2011, p. 308-314.
47. . Stafilov, R. Šajn, M. Frontasyeva. Soil pollution with heavy metals due to industrial activities, 10th International Symposium and Summer School on Bioanalysis, September 18-28, 2011, Graz, Austria, Abstract L-15, p. 24.
48. E. Steinnes and M. Frontasyeva. Atmospheric supply of halogens and selenium from ocean to land studied by neutron activation analysis. Book of Abstracts, Int. Conf. Modern Trends in Activation Analysis (MTAA-13), March 13-18, 2011, College Station, Texas, USA, p. 104.
49. M. Frontasyeva. Epithermal neutron activation analysis in applied microbiology. Int. Conf. Modern Trends in Activation Analysis (MTAA-13), March 13-18, 2011, College Station, Texas, USA, p. 85.
50. S.V. Gorelova, A.V. Gorbunov, S.M. Lyapunov, O.I. Okina, M.V. Frontasyeva. Woody plants in bioremediation of soil contaminated with heavy metals in conditions of temperate continental climate. 5-th European bioremediation Conference July 4-7 2011, Chania, Grece (<http://www.ebc-v.org/latest-news.html>).
51. M. Aničić, M. Tomašević, M. Frontasyeva, Z. Špirić. Active moss biomonitoring of trace element atmospheric pollution in the Belgrade urban area. International conference “Climate and environmental friendly transportation”, May 16-17, 2011, Belgrade, Serbia (<http://www.marlogistics.eu/reactconf/index.php>)
52. М.В. Фронтасьева От биомониторинга окружающей среды к мониторингу здоровья человека (изучение атмосферных выпадений тяжелых металлов с использованием наземных растений и их связь с эпидемиологическими данными). Всероссийская научно-практическая конференция «Мониторирование состояния здоровья, качества и образа жизни населения России. Влияние поведенческих факторов риска на здоровье населения», 7-8 июня 2011 г., Москва, РФ.
53. Ю.В. Алексеенок, М.В.Фронтасьева, М. Флорек, А. Фаанхоф. Биомониторинг долгоживущих радионуклидов в Беларуси: 20 лет после Чернобыля. Всероссийская научно-практическая конференция «Мониторирование состояния здоровья, качества и образа жизни населения России. Влияние поведенческих факторов риска на здоровье населения», 7-8 июня 2011 г., Москва, РФ.
54. Н.А. Былова, И.Н. Ильченко, Г.П. Арутунов, М.В. Фронтасьева, С.М. Ляпунов. Концентрации токсичных, потенциально токсичных и эссенциальных элементов в крови московских женщин и риск развития низкой массы тела (пилотное исследование в рамках проекта МАГАТЭ). Всероссийская научно-практическая конференция «Мониторирование состояния здоровья, качества и образа жизни населения России. Влияние поведенческих факторов риска на здоровье населения», 7-8 июня 2011 г., Москва, РФ.
55. З.И. Горяннова, Б. Манковска, М.В. Фронтасьева Зубы Европейской косули (*Capreolus capreolus* L.) как биоиндикаторы антропогенного загрязнения в Словакии. Всероссийская научно-практическая конференция «Мониторирование состояния здоровья, качества и образа жизни населения России. Влияние поведенческих факторов риска на здоровье населения», 7-8 июня 2011 г., Москва, РФ.
56. К.Н. Вергель, М.В. Фронтасьева, И.З. Каманина. Биомониторинг атмосферных выпадений тяжелых металлов и других токсичных элементов с помощью мхов на примере северо-востока Московской области и его возможная роль в оценке факторов риска на здоровье населения. Всероссийская научно-практическая конференция «Мониторирование состояния здоровья, качества и образа жизни населения России. Влияние поведенческих факторов риска на здоровье населения», 7-8 июня 2011 г., Москва, РФ.
57. M.V. Frontasyeva, E. Steinnes, L. Barandovski, S. Marinova. Marine gradients of halogens and selenium in moss and soil studied by ENAA. Book of Abstracts, ISINN-19, May 25-28, 2011, Dubna, Russia.
58. M.V. Frontasyeva, S.S. Pavlov, I.I. Zinicovskaia, T.L. Kalabegishvili, I.G. Murisidze, D.T. Pataraya, E.I. Kirkesali, E.N. Ginturi. Microbial biotechnology studied by ENAA. Book of Abstracts, ISINN-19, May 25-28, 2011, Dubna, Russia.
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