

LIST OF PUBLICATIONS OF ANELIA KENAROVA, DEPARTMENT OF ECOLOGY AND ENVIRONMENTAL PROTECTION, THE FACULTY OF BIOLOGY, SOFIA UNIVERSITY "KL. OHRIDSKI"

A) LIST OF ALL PUBLICATIONS

Scientific publications and full-text proceedings used for holding the scientific degree "Doctor"

1. Kenarova A., V. Baloutzov, H. Nguyen, 1993, Investigation on the variability of *S. hygroscopicus* SU and natural selection of highly active variant., *Comptes rendus de l'Academ. bulgare des Sciences*, v.46(8),125-127. **IF=0.126**
2. Кенарова А, В. Балутцов, Н. Христова, 1994, Сравнительные исследования полиморфизма и биосинтетической активности мутантов *S. hygroscopicus* SU-A₅, (*In English: Kenarova A, Baloutzov V, Hristova N. 1994, Comparative study of polymorphism and production activities of S. hygroscopicus SU-A₅ mutants*), *Comptes rendus de l'Academ. bulgare des Sciences*, vol.47(7), 63-65, **IF=0.126** -
3. Kenarova A.,V. Baloutzov, N. Bogatzevska, 1994, Investigations on the biology of *Streptomyces* sp.K₄₅₅ and the properties of produced antibiotic complex, In: Reports from the 8th international conference of plant pathogenic bacteria, France, 923-927. ISBN: 2-7380-0555-1 (INRA); ASBN: 2-7099-1201-5 (ORSTOM)
4. Кенарова А., В. Балутцов, К. Али, 1996, Исследование возможности получения высокоактивного мутанта *S. hygroscopicus* SU-A5 путем индуцированного мутагенеза, Антибиотики и химиотерапия, т.41(5), 3-5. (*In English: Kenarova A, V. Baloutzov, K. Ali, 1996, Induction of high productive mutants of S. hygroscopicus SU-A5 by mutagenesis, Antibiotics and chemotherapy, v. 41(5), 3-5*), **IF=0.016**
5. Kenarova A., V. Baloutzov, E. Molle, 1996, Taxonomy of *Streptomyces* sp. K₄₅₅, producer of antibiotic complex, *Comptes rendus de l'Academ. bulgare des Sciences*, 49(7-8), 101-104.

Scientific publications and full-text proceedings used for holding the academic position "Associated Professor"

6. Дилова К., С. Мутафов, А. Кенарова, 1995, Използване на имобилизирани клетки от щам *E. coli* TR-15 за получаване на L-аспарагинова киселина, Годишник на СУ "Св. Кл. Охридски"-БФ, Микробиология и биотехнология, 85 (3), 79-87. (*In English: Dilova K, S. Mutafov, A. Kenarova, 1995, Used of immobilized E. coli TR-15 for L-Asparaginic acid production, Annual of Sofia University "St. Kliment Ohridski" - Microbiology and Biotechnology, 85(3), 79-87*).
7. Балутцов В., А. Кенарова, 1995, Кинетични изследвания при термична инактивация на микроорганизмите, Годишник на СУ "Св. Кл. Охридски"-БФ, Микробиология и биотехнология, 85(3), 95-100. (*In English: Baloutzov V, A. Kenarova, 1995, Kinetic study of microorganisms' thermal killing, Annual of Sofia University "St. Kliment Ohridski" - Microbiology and Biotechnology, 85(3), 95-100*).

8. Bogoev V., M. Gyosheva, A. Kenarova, 1999, Total number and biomass of soil microorganisms in the region of the Livingston island, Bulgarian Antarctic Research- Life Sciences, 2, 19-24. ISBN: 9789546420701
9. Kenarova A., Bogoev V., 2001, Heavy metal tolerance of water microorganisms from natural and metal polluted habitats, Comptes rendus de l'Academie bulgare des Sciences, 54(8), 87-90.
10. Kenarova A., Bogoev V., 2001, Heavy metal tolerance of sediment microorganisms from natural and metal polluted habitats, Comptes rendus de l'Academ. bulgare des Sciences, 54(8), 91-94.
11. Bogoev V.M., A.E. Kenarova, V.L.Vasilev, M.M. Gyosheva, 2002, Quantitative distribution of microbial biomass in the soil profile of a high- mountain grassy ecosystem, Folia Microbiologica, v.47 (1), 56-61. **IF=0.979**
12. Kenarova A., 2002, River Biota Response to Organic Matter Pollution, Journal of Balkan Ecology, 5 (2), 200-204.
13. Kenarova A., 2002, Analysis of heavy metal concentrations in Little Iskar River, Annuaire de l'Universite de Sofia "St. Kl. Ohridski", 94(4), 19-25.
14. Kenarova A., 2002, Microorganisms as indicators of soil health in monitoring programmes, Journal of Balkan Ecology, 5(4), 384-392
15. Kenarova A., V. Bogoev, 2002, Abundance of microorganisms and substrate profile of heterotrophic microorganisms from soils of different habitats on Livingston island- Antarctica, Bulgarian Antarctic Research- Life Sciences, 3, 15-20. ISBN: 9789546421593
16. Кенарова А., 2002, Отпадъците - боклук или вторична суровина за производството?, Екоsvят, бр.2 (юли/август), 10-11. (*In English: Kenarova A., 2002, Waste – garbage or second resource for industry?, EcoWorld, 2 (July/August), 10-11).*
17. Kenarova A., V. Bogoev, 2004, Soil characteristics and microbial abundance of moss and coastal habitats of Livingston Island - Antarctica, Bulg. Antarctic Research, Life Sciences, 4, 1-8. ISBN: 9789546422194
18. Кенарова А., 2004, Отпадъците - шанс за първичните ресурси на планетата, Екоsvят, бр.2, 10-13. (*In English: Kenarova A., 2004, Waste – chance for the primary planet resources, EcoWorld, 2, 10-13).*
19. Kenarova A., 2005, Participation of microorganisms in self-purification processes of Maritsa River in its upper flow, Journal Balkan Ecology, 8(3), 317-325.
20. Kenarova A., V. Bogoev, G. Janakieva, 2005, Bacterial abundance and its seasonal pattern in the hypersaline lake Balchishka Tousla - the Black Sea Coast of Northeast Bulgaria, Journal of Balkan Ecology, 8(1), 29-36.
21. Bogoev V, A. Kenarova, V. Vasilev, 2005, Seasonal and spatial distribution of bacteria inhabited the soil profile of high mountain grass ecosystem, Journal of Balkan Ecology, 8(1), 21-28.
22. Илиева С., А. Кенарова, В. Богоев, 2005, Сезонна динамика на парникови газове в атмосферния въздух над депата за битови отпадъци на гр. София, Сборник от доклади "Биоразнообразие, Екосистеми, Глобални промени" - Първа национална конференция по екология 4-5 ноември 2004, София, 531-536. (*In English: Ilieva S, A. Kenarova, V. Bogoev, 2005, Seasonal dynamics of greenhouse gases emitted from the Sofia landfill, Conference Proceedings "Biodiversity, Ecosystems, Global Changes – the first national conference of ecology, 4-5 November, 2004, Sofia, 531-536).*

23. Park, Y-J, A. Kenarova, V. Bogoev, 2006, Effects of roadside pollution on the street trees and soil microorganisms, VIth Int. Conf. of KACEEBC, Hungary, Current Issues, 281-292.
24. Кенарова А., Г. Георгиев, 2007, Микробиология и биохимия на метанообразуването, Екологично инженерство и опазване на околната среда, № 2, 12-22. (*In English: Kenarova A., G. Georgiev, 2007, Microbiology and biochemistry of methan production, Ecological engineering and environmental protection, 2, 12-22*).
25. Ilieva S., A. Kenarova, H. Chanev, V. Bogoev, 2007, Environmental and physiological characteristics of methanotrophic bacterial communities inhabiting the soil cover of Sofia city landfill in Suhodol district, Comptes rendus de l'Academie bulgare des Sciences, 60 (3), 319-326. **IF=0.159**
26. Balutzov V.M., A.E. Kenarova, 2008, Investigation of the antibiotic complex, produced from *Streptomyces hygroscopicus* SU-K₄. Isolation, purification and primary characterization of the antibiotic complex, Oxidation communications, 31(2), 392-397. **IF=0.289**
27. Boteva S., I. Traykov, A. Kenarova, V. Bogoev, 2008, Evaluation of phosphorus impact on phytoplankton dynamics in Seven Rila Lakes: Rila National Park, Ecologica, 15 (52), 3-8.
28. Boteva S., A. Kenarova, I. Traykov, V. Bogoev, 2009 Vertical distribution of bacterioplankton in Dolnoto Lake – Seven Rila Lakes, Biotechnol and Biotechnol Eq., 23/2009/SE, 365-368. **IF=0.291**
29. Dimitrov K., R. Metcheva, A. Kenarova, 2009, Salmonella presence- an indicator of direct and indirect human impact on Gentoo in Antarctica, Biotechnol and Biotechnol Eq., 23/2009/SE, 365, 246-249. **IF=0.291**
30. Георгиев К., А.Е. Кенарова, Д. Димитрова, 2009, "Анаеробна ферментация - от теория към практика", VII Национална конференция с международно участие "ПРИРОДНИ НАУКИ 2008", 25.09.-28.09.2008, Варна., Годишник на Шуменския университет «Епископ Константин Преславски», 19 (В 6), 44-57. (*In English: Georgiev K, A. Kenarova, D. Dimitrova, 2009, "Anaerobic degradation – from theory to practice", VII National conference with international participation "Natural Sciences 2008", September, Varna, Annual of Shumen University "Episkop Konstantin Preslavski"*).
31. Boteva S., Traykov I., Kenarova A., Bogoev V., 2010, Abundance and spatial dynamics of bacterioplankton in the Seven Rila Lakes, Bulgaria, Chinese Journal of Oceanology and Limnology, 28 (3), 451-458. **IF=0.325**
32. Kenarova A, G. Radeva, 2010, Effects of copper and zinc on soil microbial enzymes, Comptes rendus de l'Academie bulgare des Sciences, vol 63 (1), 105-112, **IF=0.219**
33. Kenarova A, G. Radeva, 2010, Inhibitory effects of total and water soluble concentrations of heavy metals on microbial dehydrogenase activity, Comptes rendus de l'Academie bulgare des Sciences, vol. 63 (7), 1029-1033, **IF=0.219**
34. Ilieva S., A. Kenarova, V. Bogoev, H. Chanev, 2010, Temporal and spatial dynamics of methane-oxidizing bacteria inhabiting the soil cover of Sofia landfill, J. Balkan Ecology, 13(1), 71-81.
35. Bogoev V., A. Kenarova, I. Traykov, R. Tzonev, R. Tzekova, T. Stoyanova, S. Boteva and N. Parleva, 2010, Natural communities of uranium mining impacted area in the vicinity of the Senokos village, Biotech and Biotech Eq., v.24, SE, 240-246. **IF=0.503**
36. Kenarova A. , G. Radeva, I. Danova, S. Boteva and I. Dimitrova, 2010, Soil bacterial abundance and diversity of uranium impacted area in north western Pirin Mountain, Biotech and Biotech Eq., v.24, SE, 469-473. **IF=0.503**

37. Elitza Angelova, Zvezdimira Tsvetanova, Magdalena Korsachka, Roumen Marinov, Jordan Marinski, Anelia Kenarova, 2012, Quality assessment in Bourgas bay, Black Sea (refNo1215) VIth International Conference on Environmental Science and Technology, June 25-29, 2012, Houston, Texas, USA

B) PUBLICATION LIST FOR THE ACADEMIC POSITION “PROFESSOR” COMPETITION

38. Boteva S., A. Kenarova, G. Radeva, I. Traykov, V. Bogoev, 2011, Community dynamics of pelagic bacteria in a high mountain Lake Sulzata – Rila Mountain, Bulgaria. *Biotech and Biotech Eq.*, v.25, №4, 2620-2626. **IF=0.760**
39. Stoyanova T. L., Traykov I T., Kenarova A. E., Bogoev V. M., Yaneva I.Y., 2012, The impact of abandoned uranium mine Senokos on Luda River, Pirin Mountain, Bulgaria, The Fifth International Scientific Conference BALWOIS 2012, Ohrid, Republic of Macedonia, 28th May - 2nd June 2012
40. Anelia Kenarova, Marta Encheva, Valentina Chipeva, Nesho Chipev, Petya Hristova, Penka Moncheva, 2013. Physiological diversity of bacterial communities from different soil locations on Livingston Island, South Shetland Archipelago, Antarctica, *Polar Biology*, DOI 10.1007/s00300-012-1254-8, 36(2), 223-233, vol. 36 (2), 223-233. **IF=2.071**
41. Encheva M, Zaharieva N., Kenarova A., Chipev N., Chipeva V., Hristova P., Ivanova I., Moncheva P., 2013, Abundance and activity of soil actinomycetes from Livingston Island, Antarctica. *Bulgarian Journal of Agricultural Science*, 19(2), 68-71. **IF=0.136**
42. Silvena Boteva, Anelia Kenarova, Galina Radeva, Ivan Traykov, Valentin Bogoev, 2013. Community dynamics of pelagic bacteria in the high mountain lake Bubreka – Rila Mountain, Bulgaria. *Comptes rendus de l’Academ. bulgare des Sciences*, vol. 66 (11); 1579-1586. **IF=0.198**
43. Galina Radeva, Anelia Kenarova, Velina Bachvarova, Katrin Flemming, Ivan Popov, Dimitar Vassilev, Sonja Selenska-Pobell, 2013. Bacterial diversity at abandoned uranium mining and milling sites in Bulgaria as revealed by 16S rRNA genetic diversity study. *Water, Air & Soil Pollution*, DOI 10.1007/s11270-013-1748; (2013):224: Article1748. **IF=1.685**
44. Anelia Kenarova, Galina Radeva, Ivan Traykov, Silvena Boteva, 2014. Community level physiological profiles of bacterial communities inhabiting uranium mining impacted sites. *Ecotoxicology and Environmental Safety*, DOI 10.1016/j.ecoenv. 2013.11.012; vol. 100, 226-232. **IF=2.762**
45. Galina Radeva, Anelia Kenarova, Velina Bachvarova, Katrin Flemming, Ivan Popov, Dimitar Vassilev and Sonja Selenska-Pobell, 2014. Phylogenetic diversity of archaea and archaeal ammonia monooxygenase gene in uranium mining impacted locations in Bulgaria, *Archaea*, vol. 2014, Article ID 196140, 10 pages, 2014. doi:10.1155/2014/196140. **IF=2.709**
46. Boteva S, Bankova E, Kenarova A, Tishkov S, Traykov I, 2015, Bacterial abundance and activity in oil polluted and restored artificial wetlands, *Annuaire de l’Université de Sofia “St. Kliment Ohridski”*, Faculte de Biologie, 100(4), 332-343
47. Kenarova A and S. Boteva, 2015, Chapter 13 - Functional Diversity of Microorganisms in Heavy Metal Polluted Soils, In: (Sherameti I and Varma A, eds) *Heavy Metal Contamination of Soils: Monitoring and Remediation*, series “Soil Biology”, Springer, v. 44, pp 245-257, ISBN: 978-3-319-14526-6

48. Moncheva P., Chipeva V., Encheva-Malinova M., Kenarova A., 2015, Soil Microbial Life of Livingston Island, Antarctica. In: Ch. Pimpirev and N Chipev (eds) Bulgarian Antarctic Research: A Synthesis, St Kl. Ohridski Univ Press, ISBN 978-954-07-3939-7, pp.274 – 296.
49. Silvena Boteva, Galina Radeva, Ivan Traykov, Anelia Kenarova, 2016, Effects of long-term radionuclide and heavy metal contamination on the activity of microbial communities, inhabiting uranium mining impacted soils, *Environmental Science and Pollution Research*, 23(6), 5644-5653, DOI 10.1007/s11356-015-5788-5. **IF = 2.741**
50. Boteva S. and A. Kenarova, 2017, Oil contamination of sandy and loamy alluvial soils and its impact on indigenous bacteria, *Comptes rendus de l'Academie bulgare des Sciences*, v. 70 (6), 803-812. **IF=0.251**
51. Silvena Boteva, Anelia Kenarova, 2017, Impact of methane concentration and temperature on the activity of a methanotrophic strain isolated from a municipal landfill, *Comptes rendus de l'Academie bulgare des Sciences*, Vol 70, No9, pp.1271-1278. **IF=0.251**
52. Anelia Kenarova, Rossen Tzonev, Silvena Boteva, Valentin Bogoev, Marian Nikolov, Kalina Pachedjieva, Ivan Traykov, Daniela Simeonovska-Nikolova, Krastio Dimitrov, Vladimir Stefanov, Hristina Bakardjieva, Tsveta Dimitrova and Georgi Nachev, 2017, The Framework of the maintenance ecosystem services provided by agroecosystems on the territory of Bulgaria, *World Multidisciplinary Earth Sciences Symposium (WMESS 2017)*, IOP Conference Series: Earth and Environmental Science 95 042011 doi:10.1088/1755-1315/95/4/042011. **SJR=0.149**
53. Michaela Alexova, Anelia Kenarova, Silvena Boteva, Galina Radeva, 2019, Azoxystrobin impact on a selection of soil bacterial resistance to aminoglycoside antibiotics, *Comptes rendus de l'Academie bulgare des Sciences*, 72(10), 1359-1365. **IF=0.343**
54. Michaela Aleksova, Anelia Kenarova, Silvena Boteva, Galina Radeva, 2019, Induced bacterial antibiotic resistance under the application of fungicide azoxystrobin, *Comptes rendus de l'Academia bulgare des Sciences*, 72(11), 1592-1598. **IF=0.343**
55. Michaela Aleksova, Daniel Palov, Nikolai Dinev, Silvena Boteva, Anelia Kenarova, Roumen Dimitrov, Galina Radeva, 2020, Bacterial abundance along a gradient of heavy metal contaminated soils in the region of Zlatitsa-Pirdop valley, Western Bulgaria, *Comptes rendus de l'Academie bulgare des Sciences*, 73(3), 433-440. **IF=0.378**
56. Silvena Boteva, Rossen Tzonev, Anelia Kenarova, Valentin Bogoev, 2020, Agriculture landscape development and its subsequent impact in terms of common agricultural policy - the case of Southwest planning region in Bulgaria, *Bulgarian Journal of Agricultural Science*, 26 (6), 1209-1216. **SJR =0.191**
57. Boteva, S.B., Kenarova, A.E., Georgieva, S.S., Chaney, C.D., Aleksova, M.R., Radeva, G.S. 2020. The resistance and resilience of soil enzymes after the application of fungicide azoxystrobin to loamy sand soil. *Ecologia Balkanica*, 12 (3), pp. 185-194. **SJR-0.134**
58. Palov, D.D., Aleksova, M.R., Nikolova, R.N., Dinev, N.S., Kenarova, A.E., Boteva, S.B., Dimitrov, R.A., Radeva, G.S. 2020. Relationships between soil microbial activity, bacterial diversity and abiotic factors along the heavy metal contamination gradient. *Ecologia Balkanica*, 12 (3), pp. 31-39. **SJR-0.134**
59. Aleksova, M., Kenarova, A., Boteva, S., Georgieva, S., Chaney, Ch., Radeva G. 2021. Effects of increasing concentrations of fungicide Quadris[®] on bacterial functional profiling in loamy sand soil. *Archives of Microbiology*, 203(7), 4385-4396. **IF=1.884**

60. Silvena Boteva, Anelia Kenarova, Viktoriya Kancheva, Michaela Aleksova, Roumen Dimitrov, and Galina Radeva, 2021, Long-term heavy metal pollution of soils and its impact on bacterial carbon metabolism, *Forestry Ideas*, 27(1), issue 21. **SJR=0.171**
61. Anelia Kenarova, Silvena Boteva, 2023. Fungicides in agriculture and their side effects on soil enzyme activity: A review, *Bulgarian Journal of Agricultural Science*, vol.1, in press, **SJR=0.248 (2020)**

TEXTBOOKS AND TEACHING MATERIALS

62. Валентин Богоев, Анелия Кенарова, 2009, Основи на екологията, ISBN:978-954-642-515-7, Пенсофт, София (*In English: Valentin Bogoev, Anelia Kenarova, 2009, Basics of Ecology, ISBN:978-954-642-515-7, PenSoft, Sofia*).
63. Валентин Богоев, Кенарова А., Нина Ламбаджиева, Мира Славова, 2003, Биология и здравно образование, ISBN:954-18-0353-9, Булвест 2000, София (*In English: Valentin Bogoev, Kenarova A., N. Lambadgieva, M. Slavova, 2003, Biology and Health Education, ISBN:954-18-0353-9, Bulvest 2000, Sofia*).