

References

- [1] Abbasov F. G. Biological activity and productivity of grey-brown soils in Absheron at crop rotation: Authoreference, Baki, 1980, 24 p.
- [2] Abdulyev I. M. Biological activity of heavy-clayey serozem-meadow saline soils under different methods of melioration and agricultural assimilation in Shirvan steppe. Authoreference, Baki, 1987, 21 p.
- [3] Abdulyev M. R. Salinization of the Shirvan plain soils and fight measures with them. Baki: Elm (Science), 2003, 63 p.
- [4] Abdulyev M. P. Soils with the delluvial form of salinization and problems of their melioration. Baki: Ozan, 2003, 270 p.
- [5] Agabayova R. A. Biochemical process and their regulation in meliorating serozem-meadow soils. Authoreference, Baki, 1984, 27 p.
- [6] Ahrens E. Beitragnur yrage der Indikater fun tion der nutzungestufen einea sandbodens // Soil Biol. Biochem., 1977, V. 9, p. 181-191.
- [7] Anderson G. Other organic phosphorus compounds. Soil components. B. etc.: Springer-Vest, 1975, V. 1, p. 306-331.
- [8] Alakparov K. A. Soils and grounds along the Samur-Davachi canal. Baki, 1961, 82 p.
- [9] Alekhina L. K. Evaluation of bacterial variety in soils under different humidity. Pochvovedenie (Soil Science), 2001, No. 6, p. 847-854.
- [10] Aliyev G. A., Alekperov K. A., Volobuyev V. R., Salayev M. E.. Nomenclature and Systematic List of Soils of the Azerbaijan SSR, Ser. Biol. Nauk, No.1, 127-14, 1969.
- [11] Aliyev H. A. Forestr, forestr-steppe soils of the north-east part in Great Caucasus. Baki: Elm, 1964, 330 p.
- [12] Aliyev H. A. Soils of Great Caucasus. Baki, 1978, Part 1, 158 p.
- [13] Aliyev H. A. Alarm drum. I publication, Baki: Azerpub, 1976, 135 p.; II pub., Baki: Azerpub, 1982, 175 p.; III pub., Baki: Ministry of Ekology and Natural Resources, 2002, 175 p.

- [14] Aliyev J. A. Ecology and energetic of biochemical processes of transformation of the soils organic matter. Baki: Elm, 1978, 252 p.
- [15] Aliyev J. A., Alakbarov Z. Biological variety is the human wealth. "Azerbaijan newspaper", Baki, 2001, 29 December.
- [16] Aliyev S. A., Hajiyev J. A. Ecologo-energetic analysis of objective laws of the soils fermentative activity changes. Ecological conditions and fermentative activity of soils. Ufa, 1979, p. 18-31.
- [17] Aon M., Colaneri A. Temporal and spatial evolution of enzymatic activities and physico-chemical properties in an agricultural soil // Applied Soil Ecology, 2001, V. 18, p. 255-270.
- [18] Aranbaev M. P. Anthropogenic Irrigation-Accumulative Soils of the Desert Zone, Moscow, 1995
- [19] Aristovskaya T. V. Microbiology of soil-forming processes. Moscow: Nauka (Science), 1980, 187 p.
- [20] Artyushenko A. N., Grishko V. N. Change of the soil phosphatase activity under biohumus use in soils, pollutant heavy metals. Materials of International scientific Conference "Ecology and Biology of Soils". Rostov-Don, 2005, p. 39-41.
- [21] Azerbaijani Soil Map, S 1:600000 (composition Aliyev H. A., Hasanov Sh.G., Babayev M. P., Mammadov G. Sh.), Moscow, 1991.
- [22] Babayev M. P. Degradation of soils in Azerbaijan influence of increasing anthropogenic effect. Conference soils in Central European Countries, New Independent States and Central Asian Countries and in Mongolia. Pragia-Czech Republic, 2000, p. 15-17.
- [23] Babayev M. P., Gurbanov E. A., Hasanov V. H. Soil degradation and protection in Azerbaijan. Baki: Elm (Science), 2010, 216 p.
- [24] Babayev M. P., Jafarov A. B., Orudzheva N. H. Methodic recommendations about study, use and evaluation of the little economy soils. Baki: Elm (Science), 2000, 90 p.
- [25] Babayev M. P., Jafarova Ch. M., Gasanova V. G.. Modern Azerbaijani Soil Classification System. Eur. Soil Sci., Vol. 39, No. 11, 1176-1182, 2006.
- [26] Babayev M. P., Hasanov V. H., Jafarova Ch. M. Contemporary classification of Azerbaijan soils. Baki: Elm (Science), 2006, 360 p.

- [27] Babayev M. P., Hasanov V. H., Orudzheva N. H. Soil degradation (methodic recommendations). Baki: Elm (Science), 2003, 44 p.
- [28] Babaev M. P., Orudzheva N.I. Assessment of the Biological Activity of Soils in the Subtropical Zone of Azerbaijan. Eurasian Soil Science. 2009, Vol. 42, No. 10, p. 1163-1169.
- [29] Baligar Y., Wright R., Smedley M. Enzyme activities in hill land soils of the Appalachian region. Commun. Soil Sci. and plant Anal., 1988, V. 19, № 4, p. 367-384.
- [30] Bouma T., Nielsen K., Eissenst D. et al. Estimating respiration of roots in soil: Interactions with soil CO₂, soil temperature and soil water content // Plant and Soil, 1997, V. 195, p. 221-232.
- [31] Bowden R., Nadelhoffer K., Boone R. et al. Contributions of above ground litter, below ground litter, and root respiration to total soil respiration in a temperate mixed hardwood forest // Can. J. For. Res., 1993, V. 23, p. 1402-1407.
- [32] Babayev M. P. Irrigative soils of Kur-Araz lowland and their productivity ability. Baki: Elm, 1984, 172 p.
- [33] Babyeva I. P., Zenova G. M. Soil Biology. Moscow: MSU, 1989, 336 p.
- [34] Bakina L. G., Orlova N. E. About interrelation of the ecological stability of soils and their humic state. Thes. address on III Congress of Dokuchayev Society of Soil Scientists. Suzlal-Moscow, 2000, Book. 2, p. 233.
- [35] Bedlovskaya I. V. Soil microflora in agrocenoz of lucerne from different years of the life and winter wheat in leaching weakhumic chernozem. Materials of International scientific Conference “Ecology and Biology of Soils”. Rostov-Don, 2005, p. 55-57.
- [36] Belousov A. A., Belousova E. N. Dynamics of soils bioparameters in the alluvial raw and value of their stability degree. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2006, p. 53-55.
- [37] Berestetskiy O. A. Biochemical bases of soils fertility. Moscow, 1983, 227 p.
- [38] Berestetski O. A., Dzabyuk F. V. Influence of crop rotation and monoculture on biological activity of dern-podzol soil. Works of BSFI agricultural microbiology. Leningrad, 1978, Vol. 47, p. 18-30.
- [39] Bezuglova O. S. Humic condition of chernozem-steppe and chestnut soils in South Russia. Rostov-Don, 2001, 228 p.

- [40] Boldeskul A. G., Elpatevskiy P. V. Transformation of phosphorus combinations in grey-soils in South Seaside. Materials of IV Congress in Dokuchayev Society of Soil Scientists. Navosiberisk, 2004, Book 1, p. 482.
- [41] Bolotina N. I., Abramova E. N. about a definition method of soils nitrification ability. Agrochemistry, 1968, No. 4, p. 16-26.
- [42] Bulgakov D. S., Karmanov I. I., Karmanova L. A. About factors and categories under the definition of degraded soils value. Azerbaijan soil resources and protection value. Azerb. Soil Science Society Works. Baki: Elm, 2005, Vol. X, I Part, p. 58-61.
- [43] Buyanovsky G. A. Influence of biological processes on mobile components of the mineral part of soils in the Kur-Araz lowland: Authoref. diss....doct. biolog. science. Baki: Elm, 1972, 50 p.
- [44] Campbell N., Less H. The nitrogen cycle. Soil biochemistry. N. Y.: Marcel Dekker, 1967, p. 194-215.
- [45] Classification and Diagnostics of Soils of the USSR. Moscow, 1977.
- [46] Greenwood D. Distribution of carbon dioxide in the aqueous phase of aerobic soils // J. Soil Sci. vol. 21, № 2, 1970, p. 314-329.
- [47] Dadenko E. V. Some methodical aspects of the fermentative activity indicators application in diagnostics and monitoring of soils. Materials of International Conference "Ecology and Biology of Soils". Rostov-Don, 2005, p. 143-147.
- [48] Dadenko E. V., Repiakh M. A. Change of the biological activity of soils under virgin chernozem assimilation. Materials of International Conference "Ecology and Biology of Soils". Rostov-Don, 2006, p. 141-144.
- [49] Demkina T. S., Borisov A. V., Demkin V. A. Microbiological investigations of the under tumulus soils in the desert-steppe zone of Volgo-Don interrivers. Pochvovedenie (Soil Science), 2004, No. 7, p. 853-859.
- [50] Dick R. Soil enzyme activities as indicators of soil quality // Defining soil quality for a sustainable environment. Madison: Soil Sci. Soc. Amer., 1994, p. 107-124.
- [51] Djanayev G. G., Farniyev A. T., Janayev Z. G. Influence of systematic application of fertilizers on agrochemical and biological peculiarities in chestnut soils and crop rotation productivity. Agrochemistry, 2007, No.10, p. 32-38.
- [52] Dobrovolskaya T. G., Chernov I. Y. About parameters of structure of the bacterial totality. Microbiology, 1997, Vol. 66, No. 3, p. 408-414.

- [53] Dobrovolskaya T. G., Lisak L. V., Zvyaginsev D.G. Soils and microbial biovariety. *Pochvovedenie* (Soil Science), 1996, No. 6, p. 699-704.
- [54] Dobrovolskiy G. V. Soil degradation and preserv. Moscow, 2002, 550 p.
- [55] Domracheva L. I., Ashixmina T. Y., Dabak E. V. Microbiological aspects in ecological monitoring of soils in the region of the preserve object of chemical weapon. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2006, p. 158-161.
- [56] Dospekhov B. A. Method of the field experiment. Moscow: Колос, 1979. 416 p.
- [57] Efremov A. L. Microbiot and biogeneity of soils in the flood-plain meadows of the marshy scrub. *Pochvovedenie* (Soil Science), 2000, No. 5, p. 579-583.
- [58] FAO-UNESCO-ISRIC, Soil Map of the World: Revised Legend (1988), (Rome, 1994).
- [59] Fridland V. M.. Basic Principles and Elements of the Basic Soil Classification and the Program of Work for its Development, Moscow, 1982.
- [60] Gasimova H. S. Bases of mikrobiology və virusology. Baki: Maarif, 1985, 320 p.
- [61] Guliyeva S. M. Influence of fertilizers on the cotton plant rizospheric mikrobiota in dark grey-meadow soils. Authoreference, Baki, Baki, 2005, 18 p.
- [62] Grishko V. N. Change of the kinetic indicators of fermentative reaction under an influence of urease ferment in the soils polluted by photor. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2005, p. 131-134.
- [63] Hajiyev J. A. Recommendations about improvement of the soils biological characters in the river plantations. Baki: Agricultural Ministry of Azerbaijan Republic, 1997, 24 p.
- [64] Hajiyev J. A. Influence of the soils cultivation level on ferments activity. // Azerbaijan Agrarian Science journ., 2000, No 1-2, p.10-12.
- [65] Hasanov Y. J. Hydrothermic regime of the humid subtropic zone soils nuder different agricultural plants. Works collection of Soil SCience and agrochemistry researches. Baki: Elm (Science), 1999, Vol. XV, p. 161-164.
- [66] Hasanov V. G., Galandarov Ch. J. Soil-ecological conditions and nomenclature of grey-brown soils. Thes. address on Azerb. branch All-union Society of Soil Scientists. Baki: Elm (Science), 1987, p. 6-7.

- [67] Huseynov A. K. Influence of predecessor use on water-physical peculiarities of soils and productivity of the vegetable cultures of the crop rotation under Absheron conditions: Authoreference, Baki, 1974, 42 p.
- [68] Insam H. Developments of soil microbiology since the mid 1960 / Geodenna, 2001, № 100, p. 389-402.
- [69] Ivanov I. V., Lukovskaya T. S. Natural antropogenic evolution of soils (comparative analysis of factors). Internat. Conference "Problems of antropogenic soilformation". Moscow, 1997, Vol. 1, p. 49-53.
- [70] Izumov A. N. Tugay soils of Khachmaz region of Azerb SSR yubilee session soils on the occasion of 70 year of V. V. Dokuchayev. Moscow: Publish. AS SSSR, 1949.
- [71] Imsheneskiy I. Z. Soils of the South-Eastern part in the Great Caucasus Mountain range. Azerb. Soil Expedition. Baki, 1928.
- [72] Jumshudova N. I. Biological activity of soils under oils in Absheron peninsula. Authorefernce, Baki, 1987, 23 p.
- [73] Kharshum A. O. Ecologo-biological and physico-chemical characteristics of soils Prisikkuly. Authoreference, Bishkek, 2005, 25 p.
- [74] Kazeyev K. Sh., Kozin V. K., Kolesnikov S. I. Biological peculiarities of Russia humid subtropic soils. Pochvovedenie (Soil Science), 2002, No. 12, p. 1474-1478.
- [75] Kazeyev K. Sh., Kolesnikov S. I., Valkov V. F. Biological diagnostics and soil indication (methodology and methods of the researches). Rostov-Don: Publish. Rostov. University, 2003, 204 p.
- [76] Kazeyev K. Sh., Kolesnikov S. I., Valkov V. F. Russia soil biology. Rostov-Don, 2004, 350 p.
- [77] Kazeyev K. Sh., Kremenisa A. M., Kolesnikov S. I. Biological character of soils in chestnut-solonetzic complexes. Pochvovedenie (Soil Science), 2005, No. 4, p. 464-474.
- [78] Khaziyev F. Kh. Methods of soil enzimology. Moscow: Nauka, 2005, 252 p.
- [79] Kiss S., Dragan-Bularda M., Radujescu D. Soil polysaccharidases: Activity and agricultural importance / Soil enzymes. L.: Acad, Press, 1978, p. 117-147.
- [80] Kizilova A. K., Stepanov A. I., Makarov M. I. Biological activity of mountain-meadow Aips soils in Teberdin Reserve. Pochvovedenie (Soil Science), 2006, No. 1, p. 77-80.

- [81] Kolli R., Ilmar K. Soils and soil survey in Estonia Current state and Future Perspectives. 2000, p. 156-165.
- [82] Kostadinov S. Soils degradation in Yugoslavia. Conference soils in Central European Counties, New Independent States, Central Asian Countries and in Mongolia. Pragva-Czech republic, 2000, p. 383-400.
- [83] Kovda V. A.. Basics of Soil Science, Selkhozgiz, Moscow, 1973.
- [84] Kuzyakov Y., Ehrensberger H., Stahr K. Carbon partitioning and belowground translocation by *Lolium perenne* // Soil Biol. Biochem. 2001, V. 33, № 1, p. 61-74.
- [85] Kovalev R. V. Soils of the Lenkaran region. Baki: AS Azerb. SSR, 1966, 370 p.
- [86] Kovda V. A. Bases of studies about soils. Moscow: Nauka (Science), 1973, 447 p.
- [87] Kozlov K. A. Biological activity of Eastern Siberia soils. Authoessay. diss... filosof. biol. scien. tallin. Academy of Sciences of Estonian SSR, 1970. 37 p.
- [88] Kononova M. M. Organic matter of soils. Its nature, character and methods of the research. Moscow: AS SSSR, 1963, 314 p.
- [89] Konstantinova A. S. Change of catalytic and invertazic activity of soils in sity Idjevski. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2006, p. 269-271.
- [90] Krasilnikov N. A. Microorganisms of soils and superior plants. Moscow: AS SSSR, 1958, 462 p.
- [91] Kravkov S. P. Biochemistry and agrochemistry of soil processes. Leningrad: Nauka (Science), 1978, 291 p.
- [92] Krishenko V. S., Ribyanech D.S. Biological activity of chernozems in southern law Don. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2005, p. 237-241.
- [93] Kuprevich V. F. Soil enzimology. Scientific works. Minsk: Science and technikal, 1974, Vol. 4, 404 p.
- [94] Kuprevich V. F., Sherbakova T. A. Soil enzimology. Minsk: Science and technikal, 1966, 275 p.
- [95] Kurakov A. V. Methods of secretion and characteristics of the microscopic fungus compexes of the surface ecosystem. Moscow: MAKS Press, 2001, 92 p.

- [96] Kurganova I. N., Lopes de Gerenu V. O., Kudeyarov V. N. Evaluation of the carbon stream from soils in Russia forestry zone: monitoring observation, methodology, modelling. Materials of IV Congress in Dokuchayev Society of Soil Scientists. Navosiberisk, 2004, Book 1, p. 356.
- [97] Kuzyakov Y. V. Isotopic-indicator investigations of translocation of Carbon by cultures from atmosphere into soil (revier of the reference) Pochvovedenie (Soil Science), 2001, No. 1, p. 36-51.
- [98] Lacatusu R. Soils degradation in Romania. Conference soils in Central European Counties, New Independent States, Central Asian Countries and in Mongolia. Pragua-Czech republic, 2000, p. 307-320.
- [99] Larionova A. A., Evdokimova I. V., Kurganova I. N. respiration of the roots and its deposit in emission of CO₂ from soil. Pochvovedenie (Soil Science), 2003, No. 2, p. 183-194.
- [100] Legend of Azerbaijan State Soil Map (Mammadov G. Sh., Babayev M. P., Hasanov Sh. G.). Baki: Elm (Science), 2003, 68 p.
- [101] Leiros M., Trasar Cepeda C., Garcia-Fernandez F. et al. Defining the validity of a biochemical index of soil quality // Biol. Soils., 1999, № 30, p. 140-146.
- [102] Lopes de Gerenu V. O., Kurganova I. N., Rozanova L. N. Temperatural control of the organic matter decomposition rate in soils of the different soil use. Materials of IV Congress in Dokuchayev Society of Soil Scientists. Navosiberisk, 2004, Book 1, p. 360.
- [103] Lubnina E. V., Semenova Y. V., Arefyeva I. A. Carbon in agroecosystems in grey-forest soils of the Baikal rregion. Materials of IV Congress in Dokuchayev Society of Soil Scientists. Navosiberisk, 2004, Book 1, p. 361.
- [104] Makarov B. N. Methods of the study of soils gas regime. Method of vthe soils stationary studies. Moscow: Nauka (Science), 1977, 197 p.
- [105] Mamedov R. G. Agrophysical peculiarities of Azerbaijan SSR soils. Baki: Elm, 1989, 244 p.
- [106] Mamedzade V. T. Biological activity of jeltozem-podzol and jeltozem--gleyey soils in the Lankaran zone. News NASA, Serial Biology, 2004, No. 3-4, p. 63-71.
- [107] Mammadov G. Sh. Ekological evalution of Azerbaijan soils. Baki: Elm (Science), 1998, 281 p.
- [108] Mammadov G. Sh. Azerbaijanın soil Resources. Baki: Elm, 2002, 132 p.

- [109] Mammadov G. Sh., Babayev M. P., İsmayılov A. İ. Correlation of Azerbaijan Soil classification with the WRB system. Baki: Elm, 2002, 252 p.
- [110] Mammadova S. Z. Ekological evalution and monitoring in Azerbaijan Lankaran province soils. Baki: Elm, 2006, 372 p.
- [111] Minashina N. G. Irrigated Desert Soils and Their Reclamation, Kolos, Moscow, 1974.
- [112] Mamedob T. A. Microorganisms as a factor of the soils toxicity under permanent growing of vegetable cultures. Authoref. diss..... filosof biological, Leningrad, 1984, 25 p.
- [113] Marfenina O. E. Problem of formation of potential dangerous micological peculiarities of soils. Thes. address on III Congress of Dokuchayev Society of Soil Scientists. Suzlal-Moscow, 2000, Book 2, p. 41-42.
- [114] Merkusheva M. G., Ayushina T. A., Ineshina E.G. Microbiological regime of alluvial-meadow soils in Zabaikal under irrigation and fertilizer. Agrochemistry, 2004, No. 3, p. 5-13.
- [115] Metods of microbiological investigations and definition of microelements. Reply. editor. Belousov M. A. Tashkent, 1973, 96 p.
- [116] Mishustin E. N. Microorganisms and productivity of agriculture. Moscow: Nauka, 1972, 343 p.
- [117] Mishustin E. N., Petrova A. N. formation of the free aminoacids in destructive cellulose in soil. Microbiology, 1966, Vol. 35, p. 491-498.
- [118] Morphogenetic profilie of Azerbaijan Soils. M. E.Salayev, M.P.Babayev, Ch. M. Jafarova and V. H. Hasanov. Baki: Elm (Science), 2004, 199 p.
- [119] Movsumov Z. R. Scientific bases of plant nutrient efficiency and their balance in the system of the culture alternation. Baki: Elm, 2006, 248 p.
- [120] Murdam L. A., Rakhno P. Kh., Rins O. O. About a relation of fermentative activity and a quantity of microorganisms in dern-carbonatic soil. Tallin, 1978, p. 29-40.
- [121] Mustafayeva N. A. Biological parameters of the ecological model of grey-brown (chestnut) soils fertility under cotton of Mugan steppe. Materials of International Conference "Ecology and Biology of Soils". Rostov-Don, 2005, p. 328-330.
- [122] Glazovskaya M. A. Principles of Global Soil Classification. Pochvovedenie, No.8, 21-32,1966.

- [123] Napleкова N. N. Aerob decomposition of cellulose by microorganisms in soils of Western Siberia. Moscow: Nauka, 1974, 250 p.
- [124] Oberbauer S., Cheng W., Gillespie C. et al. Land-scape patterns of carbon dioxide exchange in tundra ecosystems // In Ecological Studies / Ed/ by J.F.Reynolds and J. D.Tenhuunen. Berlin-Heidelberg: Springer-Verlag, 1996, Band 120, p. 223-256.
- [125] Orlov D. S. Organic substance of Russia soils. Pochvovedenie (Soil Science), 1998, No. 9, p. 1049-1057.
- [126] Orudzheva N. I.. Microbiological Characteristics of Different Types of Irrigated Soils in the Subtropical Zone of Azerbaijan, Eurasian Soil Science, 2011, Vol. 44, No. 11, 1241-1249.
- [127] Orudzheva N. H. Change of the Microorganisms quantity in irrigative gleyey-yellow under vegetable soils, American Journal of Plant Sciences, 2012, No. 3, p. 1746-1751.
- [128] Orudzheva N. H., Babayev M. P. Horizon Research Publishing, USA: Universal Journal of Agricultural Research, 2013, Vol. 2(1), pp. 36–41.
http://www.hrpublishing.org/journals/article_info.php?aid=1106.
- [129] Orudzheva N. H. Managment of fruit-bearing ability of the irrigative soils in vegetable-forage crop rotation (methodic recommendation). Baki: Elm, 2006, 118 p.
- [130] Orudzheva N. H. Evaluation of the soils under irrigative vegetable for the biological activity. Baki: Elm, 2009, 236 p.
- [131] Pakhnenko O. A., Pakhnenko E.P. Biotical potential in Sorokiana in the soils of agrocenoses depending on genesis and fertility. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2005, p. 401-403.
- [132] Paul E., Clark F. Soil microbiology and biochemistry // Ed. By E. A. Paul, F. E. Clark / London: Academie Pr. 1996, V. 12, 340 s.
- [133] Paulson K., Kurtz L. Michaelis constant of soil urease // Soil Sci. Soc. Amer. Proc., 1970, V. 34, № 1, p. 70-72.
- [134] Polyakova N. V., Redkina N.V. Change of some microbiological parameters of forest-steppe soils under agricultural use. Agrochemistry. 2007. No. 8. p.71-75.
- [135] Popova V. P., Sergeyeva N. N. Diagnostics of soils fertility in the garden agrocenoses on fermentative activity. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2006, p. 405-407.

- [136] Popova V. P., Sergeyeva N. N., Korosteleva L. A. Conditions of optimization of the ecological-biological state of soils in the garden ecosystem. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2005, p. 417-419.
- [137] Poshon J., Barjak G. Soil microbiology. Moscow, 1960, 60 s.
- [138] Priobrajenskiy A. S. Essay of Absheron peninsula soils. Works of Works collection of Soil Science and Agrochemistry, Vol. IV, Baki, 1934.
- [139] Radyukina N. L., Sofin A. V., Kudryavseva N. N. Contemporary presentation of biochemical processes in the soil. News MSU, Serial 17, Soil Science, 2001, No. 2, p. 13-19.
- [140] Ramazanova F. M. Biological increase of fertility of irrigative serozem-meadow soils in Shirvan steppe. Azerbaijan soil resources and reserve. Works collection of Soil Science and Agrochemistry. Baki: Elm, 2005, Vol. X, I Part, p. 138-143.
- [141] Reference book of vegetable science. (By editor M. P. Babayev). I pub., Baki: Azerpub. 1987, 305 p.; II pub, Baki: Azerpub, 1992, 228 p.
- [142] Robertson G., Klingensmith K., Klug M. et al. Soil resources, microbial activity and primary production across an agricultural ecosystem // Ecol. Appl., 1997, V. 7, p. 158-170.
- [143] Rozov L. P. Meliorative soil science. Moscow: Agriculturalpublish., 1956, 439 p.
- [144] Salayev M. E. Diagnostics and classification of Azerbaijan soils. Baki: Elm, 1991, 238 p.
- [145] Salayev M. E., Aliyeva R. A, Jafarova Ch. M. Soil Map of Absheron S 1:100000, 1985. (Fond of Institute of Soil Science and Agrochemistry).
- [146] Salayev M. E., Babayev M. P., Gasanov V. G.. Systematic List of Soils of the Azerbaijan, Elm, Baku, 1979.
- [147] Samedov P. A., Bababekova L. A., Zahidova B.B. Biological characteristics of grey-brown soils in Siyazan-Sumgait massif as an index of their fertility. Works collection of Soil Science and Agrochemistry. Baki: Elm, 2004, Vol. XVI, p. 422-434.
- [148] Sapronov D. V., Kuzyakov Y. V. Division of the root and microbic respiration: comparison of three methods. Pochvovedenie (Soil Science), 2007, No. 7, p. 862-872.

- [149] Sazanov M. A., Dedova E. B. Increase of ecological stability of degrading soils in Kalmiki. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2005, p. 443-445.
- [150] Shakuri B. K. Biologo-ecological pecularity of soils in the system of the vertical zonality in south-east part of the Great Caucasus. Baki: Publish. “Min bir mahni”, 2004, 344 p.
- [151] Shapova L. N. Microbial succession under transformation of the organic matter. Pochvovedenie (Soil Science), 2004, No. 8, p. 967-975.
- [152] Shishov L. L., Tonkonogov V. D., Lebedova I. I., Gerasimova M. I.. Classification and Diagnostics of Russian Soils, Oikumena, Smolensk, 2004.
- [153] Shulga N. A., Korobov Z. P. Soils and conditions of soilformation in Bogaz plain of Azerbaijan SSR. Soils of MSU, “Soil Science”, Moscow, Vol. 18, 1938, p. 29-33.
- [154] Sinchin F. E., Fomin S. E. Fermentative activity of the soils of chestnut-solonetzic complexes. Thes. address on III Congress of Dokuchayev Society of Soil Scientists. Suzlal-Moscow, 2000, Book. 2, p. 53.
- [155] Sinegani A. A., Khossainpur A., Nasaridze F. Dimentional variability of phosphomonoesterase composition in soils of the irrigative and unirrigative territories. Pochvovedenie (Soil Science), 2006, No. 5, p. 569-573.
- [156] Singh J., Kumar V., Dahuya D. Urease activity in some Benchnmarark soils of Haryana and its relationship with various soil properties // J. Indian Soc. Sci. 1991, V. 39, № 2, p.281-285.
- [157] Singh J., Gupta S. Plant decomposition and soil respiration in terrestrial ecosystems // The Botan. Rev. 1977, V. 43, p. 449-528.
- [158] Smagin A. B., Suranov A. V., Smirnova L. F. Methodological aspects of the biological activity value and gas function of soils on emission of carbon dioxide. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2006, p. 453-457.
- [159] Smirnov-Loginov V. P. In characteristics of the sandy problemic complex in the Absheron peninsula. Baki, 1928, 126 p.
- [160] Smik A. V., Solovichenko V. D., Azarov V. B. Changes of humus composition of typical chernozem in the specialized crop rotation. Thes. address on III Congress of Dokuchayev Society of Soil Scientists. Suzlal-Moscow, 2000, Book 1, p. 66-67.

- [161] Soil Map of Azerb. SSR. S 1:500000 (composed by Alekperov K. A., Aliyev H. A., Volobuyev V. R., Zeynalov A.K., Izyumov A. N., Kovalev R. V., Salayev M. E. Baki, 1957.
- [162] Soil Map of the Azerbaijan SSR. Ed. by Alekperov K. A., Aliyev G. A., Volobuyev V. R., Baku, 1995.
- [163] Spiers G., Mr-Gell W. Effects of phosphorus addition and energy supply on acid phosphatase production and activity in soils // Soil. Biol. Biochem., 1978, V. 11, № 1, p. 3-8.
- [164] Stakhurlova L. D., Svintova I. D., Sheglov D. I. Biological activity as a fertility indicator of chernozems in the different biocenoses. Pochvovedenie (Soil Science), 2007, No. 6, p. 769-774.
- [165] State Soil Map of Azerbaijan on a Scale of 1: 100 000. Ed. by Aliyev G. A., Salayev M. E., Mamedov T. Sh., Moscow, 1997.
- [166] Steer J., Harris J. A. Shifts in the microbial community in rhizosphere and non-rhizosphere soils during the growth of Agrostis stolonifera // Soil Biology and Biochemistry, 2000, V. 32, p. 869-8787.
- [167] Stefanie F., Ellade G., Chirnageanu J. Researchers concerning a biological index of soil fertility // Fifth symposium on soil biology. Romanian National Soil Sci., Budapest, 1984, p. 35-45.
- [168] Sushenicha V. A. Effect of lucerne on phosphate regime of serozems (grey soils). Works of TRIA, 1980, No.10, p. 192-195.
- [169] Sokolov I. A. Basic Substantive-Genetic Classification of Soils. Pochvovedenie, No. 3, 107-121, 1989.
- [170] Tepper E. Z., Shilnikova V. K., Pereverzova G. N. Practice on microbiology. Moscow: Kolos, 1972.
- [171] Usacheva L. N., Sigakova N.V. influence of the temperature on microflora of the peat-boggy soils in the Brest region. Materials of International Conference "Ecology and Biology of Soils". Rostov-Don, 2005, p. 508-512.
- [172] Valkov V. F., Kazzeb K.Sh., Kolesnikov S.I. Essay about soils fertility. Rostov-Don, 2001, 240 p.
- [173] Voynova-Roykova Dz., Rankov V., Ampova G. Microorganisms and fertility. Moscow: Agroprompub, 1986, 120 p.

- [174] Volobuyev V. R. Soils of Kur-Araz lawland. Soils of Azerb. SSR. Baki, 1953, p. 197-325.
- [175] Volobuyev V. R.. Comparison of Soil Classification, Pochvovedenie, No. 4, 27-36, 1980.
- [176] Vorobeva I. B. Influence of hydrothermic factors on humic state of soils in Nazarov forest-steppe. Materials of intern. scientific Conference “Ecology and Biology of soils”. Rostov-Don, 2005, p. 92-95.
- [177] Vostrov I. S., Petrova A. N. Definition of the biological activity in soils by different methods. Microbiology, 1961, Vol. 30, No. 4, p. 665-672.
- [178] Wyszkowska J., Kucharski J. Biochemical properties of soil contaminated by period // Pol. J. Environ. Stud., 2000, № 9, p. 479-485.
- [179] Xing B. Sorption of antropogenic organic compounds by soil organic matter: a mechanistic consideration // Can. J. Soil Sci., 2001, № 81, p. 317-323.
- [180] World Reference Base for Soil Resources, Draft (Rome, Fao, 1998).
- [181] Yakutin M. V. Functionary of soil microbobiomass under conditions of process modelling of dehumification of chernozem-meadow soils. Thes. address on III Congress of Dokuchayev Society of Soil Scientists. Suzlal-Moscow, 2000, Book 2, p. 331-333.
- [182] Zakharov V. L., Abramov V. I., Pugachev G. N. Influence of soil type of the north in Tambov plain on cellulozolithical activity of soils in the garden. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2006, p. 205-207.
- [183] Zakharov S. A. Soil Forming Agents and Soils of Azerbaijan. Classification and Geography of Soils of Azerbaijan: Data on Zoning of Azerbaijan SSR, Proceedings of the Azerbaijan Soil Experdition, Baku, 1927.
- [184] Zakharov S. A. Short soil-geographical essay of Azerbaijan. Materials on regionalization in Azerb. SSR, Vol. 1, Issue 2, Baki, 1912-1926, p. 34-37.
- [185] Zavarzin G. A. Microbial biogeography. Journal of the general biology, 1994, Vol. 55, No. 1, p. 5-12.
- [186] Zelenskiy N. A., Zelenskaya G. M., Avdeenko A. P. Use of leguminous and cross coloired cultures in agrocenoz of Rostov region. Materials of International Conference “Ecology and Biology of Soils”. Rostov-Don, 2005, p. 188-191.

- [187] Zenova G. M., Zvyaginsev D. G. Variety of actinomycetes on surface ecosystems. Moscow: Publish. MSU, 2002, 134 p.
- [188] Zenova Г. М., Likhacheva A. A., Smirova M. V. Variety of actinomycetes in flood-plain landscapes Medvenki (Moscow region). Pochvovedenie (Soil Science), 2004, No. 4, p. 389-398.
- [189] Zeynalova A. N. Influence of mineral fertilizers on soil biological activity. Soil Science Society works. Baki, 1998, Vol.VII, p. 151-157.
- [190] Zubkova T. A., Karpachevskiy L. O. Matrix organization of soils. Moscow, 2001, 296 p.
- [191] Zvyaginsev D. G. Biological activity of soils and scales for value of its some indicators. Pochvovedenie (Soil Science), 1978, No. 6, p. 48-54.
- [192] Zvyaginsev D. G. Soils and microorganisms Moscow: Publish. MSU, 1987, 256 s.
- [193] Zvyaginsev D. G., Dobrovolskaya T. G., Chernov I. Y. Peculiarities of taxonomic composition of microbial complexes in the soils of the Baikal region. Pochvovedenie (Soil Science), 1999, No. 6, p. 727-731.

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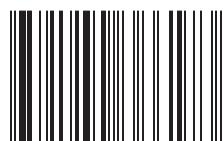
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