BIBLIOGRAPHY FOR THE EPIC DATABASE "RADIATION EFFECTS ON BIOTA"

(most of papers are in Russian)

Abaturov, A.V. (1990). Features of spatial distribution of radiation damage to pine forests near the Chernobyl NPP. In: *Biological and radioecological aspects of the consequences of the Chernobyl accident*. Abstracts of the I-st International Conference ("Zeleny Mys", 10-18 September 1990). Moscow: USSR Academy of Sciences, p.17 (In Russian).

- Abaturov, Yu.D., Abaturov, A.V., Bykov, A.V., et al. (1996). *Effects of ionizing radiation on forests in the near zone of the Chernobyl NPP*. Moscow, Nauka (In Russian).
- Abaturov, Yu.D., Gol'tsova, N.I., Rostova, N.S., Girbasova, A.V., Abaturov, A.V., Melankholin,
 P.N. (1991). Some particularities of radioactive damage of pine in the area of accident on
 the Chernobyl NPP. *Ecology*, N5, p.28-33. (In Russian).
- Abraham, R.L. (1972). Mortality of mallards exposed to gamma radiation. *Radiation research*, v.49, pp.322-327 (lethal doses)
- Abramov, V.I., Dineva, S.B., Rubanovich, A.V., and Shevchenko, V.A. (1995). Genetic consequences of radioactive contamination of the *Arabidopsis thaliana* populations growing in 30 km of Chernobyl NPP. *Radiation Biology. Radioecology*, 35 (5), 676-689. (In Russian).
- Abramov, V.I., Sergeyeva, S.A., Ptitsyna, S.N., Semov, A.B., and Shevchenko, V.A. (1992).
 Genetic effects and repair of single-stranded DNA breaks in populations of *Arabidopsis thaliana* growing in the region of the Chernobyl nuclear power station. *Genetics*, 28 (6), 69-73. (In Russian).
- Akilov, A.T., Ishakunkulov A.I. (1989). The effect of low doses of ionizing radiation on hemopoiesis of quails. In: Ist All-Union Radiobiological Congress, Moscow, August 21-27, 1989. Abstracts of Papers. Vol.5. Pushchino, 1989. P.113b. (In Russian).
- Alekseenok, A.Ya. (1970). Genetic consequences of acute and chronic exposure of Chlorella population. Ph.D.thesis, Moscow. (In Russian)
- Alexakhin, R.M., Karaban', R.T. (1979). *Problems of forest radioecology*. Moscow, Gidrometeoizdat (In Russian)
- Alexakhin, R.M., Tikhomirov, F.A., Kulikov, N.V. (1970). Ecologiya, N1, p.27 (In Russian)
- Alshitz, L.K., Timofeeva, N.A., Kulikov, N.V. (1970). Impact of gamma rays of cobalt-60 on embryonic growth of pike (*Esox lucius* L.). Transactions of the Institute of Ecology of Plants and Animals of the Academy of Sciences of the USSR, issue 74, Sverdlovsk (In Russian).

Atlas of pathological- morphological changes in tundra voles from the sites of local radioactive contamination (1994). By K.I.Maslova, L.D.Materij, O.V. Ermakova, A.I.Taskaev. St.-Petersburg, Nauka. 192 pp. (In Russian)

Auerbach, S.I. et.al. (1956). ORNL-2049, p.14 (lethal doses)

Auerbach, S.I. et.al. (1964). *Nature*, vol.201, N4921. (lethal doses)

- Back, A. (1939). Sur un type de l'esions productes chez Paramecium caudatum par les rayons x. *Compt.rend. Soc.biol.*, Vol.131,N19. (lethal doses)
- Balonov, M.I., Chetchueva M.E., Pomerantseva M.D., Ramaja L.K. (1992). The mutagenic effect of ³H-thymidine on germ cells of male mice. *Genetika (Genetics)*, 28 (3), pp.147-154 (In Russian)
- Balonov, M.I., Kudritskaya O.Y. (1984). The mutagenic effect of tritium on germ cells of male mice. Report 1. Induction of dominant lethal mutations by tritium oxide and the estimation of RBE. *Genetika (Genetics)*, v.XX, N.2, pp.224-231 (In Russian)
- Balonov, M.I., Kudritskaya O.Y., Bruk G.Y. (1984). Relative biological effectiveness of tritium oxide determined with a reference to death of mouse generative cells. *Radiobiologia* (*Radiobiology*), v.XXIV, issue 1, pp.114-117 (In Russian)
- Balonov, M.I., Muksimova, K.N., and Mushkacheva, G.S. (1993). Tritium radiobiological effects in mammals: Review of experiments of the last decade in Russia. *Health Physics*, vol.65, N6, p.713-726.
- Balonov, M.I., Pomerantseva M.D., Ramaja L.K. (1984). The mutagenic effect of tritium on germ cells of male mice. After-effects of incorporation of ³H-glucose. *Radiobiologia* (*Radiobiology*), v.XXIV, issue 6, pp.753-756 (In Russian)
- Balonov, M.I., Pomerantseva M.D., Ramaja L.K., Chetchueva M.E. (1987). The mutagenic effect of tritium on germ cells of mammals. In: *Radiation mutagenesis and its role in the evolution and selection*. Moscow: Nauka, pp.66-73 (In Russian)
- Belova, N.V., Verigin B.V., Emelianova N.G., Makeieva A.P., Ryabov I.N. (1993).
 Radiobiological analysis of silver carp *Hypophthalmichthys molitrix* in the cooling pond of the Chernobyl NPP in the post-accidental period. I. The condition of the reproductive system of fish survived the accident. *Voprosi ichtiologii (Problems of Ichthyology)*, v.33, No.6, p.814-828. (In Russian)
- Biazrov, L.G. (1994a). Radionuclide content in lichen tallus in the forest adjacent to the Chernobyl atomic power plant. *Sci.Total Environ.*, vol.157, pp.25-28.
- Biazrov, L.G. (1994b). The radionuclides in lichen tallus in Chernobyl and East Urals areas after nuclear accidents. *Phyton*, Vol.34, fasc.1, pp.85-94.

- Biazrov, L.G., Medvedev, L.N., Chernova, N.M. (1971). Lichen consortiums in deciduousconiferous forests of Podmoscovie. In: *Biogeocenologic investigations in deciduousconiferous forests*. Ed.by Dylis, N.V., *Nauka*, pp.252-270.
- Biazrov, L.G., Melekhina, E.N. (1994). Beetle mites in lichen consortiums of forest-tundra in northern Laplander (Finland). *Bulletin MOIP, Biology section*, Vol.99, N3, pp.40-45. (In Russian)
- Biazrov, L.G., Shtancheva, U.Ya. (1999). Some features of lichen radioecology as habitat of invertebrates in the territories of radioactive contamination. In: *Bioindication of radioactive pollutants*, Nauka, pp.169-177. (In Russian)
- BIOMOVS II (1996). Assessment of the Consequences of the Radioactive Contamination of Aquatic Media and Biota. Model testing using Chernobyl data. Tech.Report N.10. Swedish Radiation Protection Institute, Stockholm, Sweden.
- Bjetchly, J.D., Fischer, R.C. (1957). Nature, vol.179, N4651. (lethal doses)
- Blaylock, B.G., Dunaway, P.B., Griffith et.al. LD50/30 estimates for indigenous rodents and shrews and for RF-strain *Mus musculus*. *Oak Ridge Nat. Lab. Publ.*, N170, ORNL-4007, p.45-47. (lethal doses)
- Bond, V., Flinder, T., Arshambo, D. (1971). *Radiation mortality of mammals*. Moscow, Atomizdat (Russian translation)
- Bond, V.P., Sugahara, T., Eds. (1969). *Comparative cellular and species radiosensitivity*.Williams & Wilkins, Baltimore, Md.
- Bonet-Maury, P. (1963). Effects biologiques des rayonnements ionisants sur le Poisson rouge. C.R. Soc.biol., Bol.157, N3, p.473-477. (lethal doses)
- Bonham, K., Palumbo, R.F. (1951). Effects of x-rays on snails, crustaces and algae. *Growth*, vol.15, N3. (lethal doses)
- Bonham, K., Seymour, A.H., Donaldson, L.R., Welander, A.D. (1947). Lethal effect of x-rays on marine microplankton organisms. *Science*, vol.106,N2750. (lethal doses)
- Bowen, H., Smith, S. (1959). Nature, vol.183, N4665. (lethal doses)
- Burnazyan, A.I. (Ed.) (1990). A Review of studies and Experience in Eliminating Consequences of the Accidental Contamination of the Territory with Uranium Products. Moscow, Energoatomizdat. – 145 p. (In Russian).
- Cherdantsev V.G., Lyankov S.M., Cherdantseva E.M., Severtsov A.S. (1993). The methods and results of analysis of the ecological stability of the population of brown frogs under radiation contamination. In: *Ecological Consequences of Radioactive Contamination in the Southern Urals*. Moscow: Nauka, pp. (In Russian)

- Cole, M.M., Labrecque, G.C., Burden, G.S. (1959). J. Ecol.Entomology, vol.52, p.448. (lethal doses)
- Colley, F.B. et.al. (1965). *Health Phys.*, vol.11, N12 (lethal doses)
- Cooley, J.L. (1969). ORNL-4446, N320, p.56. (lethal doses)
- Curnov, R.D., Whicker F.W., Clover F.A. (1970). Radiosensitivity of the mallard duck (Anas plathyrhynchos). In: Tech Paper 13. 4th Int. Congress Radiol Evian. France.
- Dolgushina, Z.K. & Onanko, Yu.I. (1973). Radioresistance of some species of the plankton and benthic crustaceans. In: *Radioecology of aquatic organisms*. Vol. 3, pp. 50 – 57. Riga, Zinatne. (In Russian).
- Dudie, M.M. (1961). Bull. Acad. Serbe sci. arts., vol.26, N8, p.15. (lethal doses)
- Dunaway, P.B., Lewis, L.E., Story, J.D. et.al. (1967). Radiation effects in the sociridae, cricetidae and muridae. *Second Nat. Symp. Ann. Arbor Mich.*, p.173-184. (lethal doses)
- Ecological and morpho-physiological consequences of the Chernobyl accident for populations of mouse-like rodents (1988). Ed. by A.I.Taskaev, B.V.Testov, L.D.Materii et al. Syktyvkar,
 Preprint of Komi Sc. Center, Ural Branch of the Academy of Science USSR
- Edwards, C.A. (1969). In: *Symposium on radioecology*, D.G. Nelson, F.C. Evans (Eds), USAEC Report CONF- 670503, p.68. (lethal doses)
- Eliseeva, K.G., Voitovich, A.M., Ploskaya M.B., Smal, S.E. (1994). Genetic monitoring of brown frog populations inhabiting the radiocontaminated areas in Belarus. *Radiation Biology*. *Radioecology* 34(6), 838-846 (In Russian)
- Ellinger, F. (1939). Note of action of x-rays on goldfish (Carassius auratus). Proc.Soc. Exptl. Biol., vol.41, N2. (lethal doses)
- Erdman, H.E. (1960). Radiation Res., vol.12, N4. (lethal doses)
- Erdman, H.E. (1962). Nature, vol.195, N4847. (lethal doses)
- Ermokhin, V.Ya., Muntyan, S.P. (1977). Some special features of biology of roach from a water body with the increased content of ⁹⁰Sr and ¹³⁷Cs. In: *Radioecology of Animals*, *Proceedings of the First All-Union Conference*. Moscow: Nauka, p.76 78. (In Russian).
- Famelis, S.A. (1973). The study of radiosensitivity of natural populations of freshwater mollusc Lymnaea stagnalis L. In: Radioecology of aquatic organisms. N2. Distribution and migration of radionuclides in fresh-water and marine biocenosis. Riga, Zinatne, pp.89-94 (In Russian).
- Fedorov A.F. (1964). The impact of weak radioactive contamination of water on the development of sea flatfish (*Pleuronectes platessa*). Voprosi *Ichthyologii* (*Problems of Ichthyology*), 1964, v.4, issue 3 (32), p.579-585. (In Russian)

- Fedorov, A.F., Kardashev, A.V., Samokhin, G.V., Buyanov, N.I. & Kilezhenko, V.P. (1962). Development of salmon roe (stage VI) in radioactive contaminated water. *Fish Industry*, 11, 19 – 22. (In Russian).
- Fedorova, G.V. (1964). Impact of ¹⁴C on the developing roe and larvae of the freshwater fish. *Voprosy Ichthyologii* (Problems of Ichthyology), *4* (*33*), 723 – 728. (In Russian).
- Fedotov, I.S., Tikhomirov, F.A., Karaban', R.T., Prister, B.S. (1979). Effect of gammairradiation on vegetative and reproduction organs of pine (*Pinus sylvestris L.*). In: *Problems of forest radioecology*, Moscow, pp.53-67. (In Russian)
- Fetisov, A.N. (1995). The results of long-term studies of fish populations from water basins within the Kyshtym accident zone. *Radiation biology. Radioecology*, 35 (5), 751 – 758. (In Russian).
- Fetisov, A.N., Smagin, A.I., Rubanovich, A.V. (1993). Morphometric characteristics and comparative radioresistance of *Linella Stagnalis* populations from reservoirs with various ecological conditions. *Radiobiology*. Vol.33, N1, pp.160-165 (In Russian).
- Foster, R.F., Donaldson., L.R., Welander, A.D., Bonham, K., Seymour, A.H. (1949). The effects on embryos and young rainbow trout from exposing the parent fish to x-rays. *Growth*, vol.13, N2. (lethal doses)
- Frolova, N.P. (2001). Ultimate effects of chronic irradiation and chemical toxicity of heavy radionuclides on herbaceous plants in the phytocenosis at site of uranium-radium contamination. In: *Biological effects of low dose ionizing radiation and radioactive pollution of the environment. BIORAD-2001*. Abstracts of the International conference, March 20-24, 2001, Syktyvkar, Russia. pp.107-108 (In Russian)
- Frolova, N.P., Popova, O.N. (1990). Monitoring of seeds of chronically irradiated natural populations of *Plantago lanceolata* L. Variability in posterity. *Radiobiology*, 30 (4), 446-449. (In Russian)
- Frolova, N.P., Popova, O.N., and Taskaev, A.I., Frolov, Yu.M. (1989). Monitoring of natural populations of *Plantago lanceolata* L. in the 30-km zone of the Chernobyl NPP. Series of preprints "Science report" (Syktyvkar, Proceedings of Komi Research Center of Ural Branch of the Russian Academy of Science), 48 p. (In Russian).
- Frolova, N.P., Popova, O.N., Taskaev, A.I. (1990). Monitoring of seeds of chronically irradiated natural population of Plantago lanceolata L. viability of seeds. *Radiobiology*, 30 (3), 296-299. (In Russian).
- Frolova, N.P., Popova, O.N., Taskaev, A.I. (1991). Seed renewal in nature population of *Plantago lanceolata* L. on the plots with different gamma-radiation level. *Radiobiology*, vol.31, N2, p.167-170. (In Russian).

- Frolova, N.P., Popova, O.N., Taskaev, A.I. (1993). High incidence of teratogenic changes in *Plantago lanceolata* L. seedlings of the fifth post-disaster reproduction within the thirty km zone of Chernobyl NPP Radiation Biology. *Radioecology*, 33 (2), 179-182 (In Russian).
- Frolova, N.P., Popova, O.N., Taskaev, A.I., Bashlykova, L.A. (1991). Viability of seeds of individual representative of Gramineae family from chronicle irradiated natural phytocenoses. *Proceedings of the Komi Research Center of Ural Branch of the Russian Academy of Science*, Syktyvkar, N120, p. 80-94. (In Russian).
- Gilyarov, M.S., Krivolutsky, D.A. (1971). Radioecological investigations in soil zoology. *Zoological Journal*, Vol.50, N3, p.329-342 (In Russian).
- Glembotskii, Ya.L., Abeleva, E.A., Lapkin, V.A. (1962). The low-level ionizing radiation effect on frequency of sex-linked lethal mutations of *Drosophila*. In: *Radiation Genetics*. Moscow, Academy of Sciences of USSR. – PP.303-311 (In Russian).
- Glocker, R., Landerdorff, H., Reuss, A. (1932). Uber die Wirkung von Rontgenstrahlen verschiedener Wellenlange auf biologische Objekte. III. Strahlentherapie, Bd.46. (lethal doses)
- Golley, F.B. (1965). The effects of acute gamma radiation on wild mammals. In: *Radiation effects on natural population*, p.32-35. (lethal doses)
- Golley, F.B., Gentry, J.B., Menhinik, E.F., Garmon, J.L. (1965a). Response of wild rodents to acute gamma radiation. *Radiat. Res.*, vol.24, N2, p.350-356. (lethal doses)
- Golley, F.B., Rauber, E.L., Morgan, E.L., Jenkins, J.H. (1965b). Effect of acute gamma radiation of wild opossum, gray fox, raccoon and bobcat. *Health Phys.*,vol.11, N2, p.1573-1576. (lethal doses)
- Gorodilov, Yu.N. (1971). Modification of radioresistancy of some salmonid fish on early stages of embrional development. *Radiobiology*, v.11 (6), pp.930-934 (In Russian).

Graevskaya, B.M. (1977). Priroda (Nature), N6, p.74. (In Russian)

- Grigoriev, Yu.G. (1989). Somatic effects of the chronic gamma-exposure of animals by lowlevel doses. Proceedings on the First All-Union Radiobilogical Conference. Vol.1, pp.184-185. Puschino, Academy of Sciences of USSR (In Russian).
- Grigoriev, Yu.G. (1989). Somatic effects of the chronic gamma-exposure of animals by lowlevel doses. Proceedings on the First All-Union Radiobilogical Conference. Vol.1, pp.184-185. Puchino, Academy of Sciences of USSR (In Russian).
- Guskova, V.N. (1972). Uranium. Radiation-hygienic characteristics. Moscow, Atomizdat (In Russian)
- Guskova, V.N., Mashneva N.I., Rodionova L.F., Kupriyanova V.M., Zasedatelev A.A., Sukalskaya S.Ya. (1973). Biological effects of Ru-106 and I-131 on aquatic organisms. In:

Radioecology of aquatic organisms. Issue 2. Distrubution and migration of radionuclides in freshwater and marine biocesoses. Riga, Zinatne, pp.185-193 (In Russian).

Harris, E.B., Lamerton, L.F., Ord, M.J., Danielli, J.F. (1952). Site of action of mutagenic reagents. *Nature*, vol.170, N4335. (lethal doses)

Hasett, C.C. et.al. (1952). Nucleonics, vol.10, N12. (lethal doses)

- Ilyazov, R.G., Yudina, G.N., Parfentsev, N.I. (1993). Study of the hormone function of thyroid gland and productive characteristics for cows and sheeps under long-term stockkeeping on the territory of Byelorussia contaminated by radionuclides. In: *Radiation Aspects of the Chernobyl Accident*. Vol.2. - Saint-Petersburg, Gidrometeoizdat. – P.340 (In Russian).
- Ilyenko, A.I. (1967). On the biological effect of contamination of the soil surface with⁹⁰Sr on the population of short-tailed voles. In: *Ecology of Mammals and Birds*. Moscow, Nauka, pp.122-126. (In Russian).
- Ilyenko, A.I. (1970). Accumulation of ⁹⁰Sr and ¹³⁷Cs by fish in a fresh-water body. Voprosi Ichtyologii (*Problems of Ichthyology*), v.10, No.6. P.1127-1128. (In Russian).
- Ilyenko, A.I. (1974). Concentrating by animals of radioisotopes and their influence on the population. Moscow, Nauka. 168 p. (In Russian).
- Ilyenko, A.I., Krapivko T.P. (1978a). The effect of contamination of the biogeocenosis with ⁹⁰Sr on the reproductive system of mammals. In: Proceedings of the Second Congress of the All-Union Theriol. Society. Moscow: Nauka, 1978a. P.134-135.
- Ilyenko, A.I., Krapivko T.P. (1986). The effect of evolutionary adaptation of the population of mammals to ionizing radiation. *Radiobiology*, v.26, No.1. P.102-105. (In Russian).
- Ilyenko, A.I., Krapivko T.P., Mazheikite R.B., Smirnova O.V. (1980). Investigation of the influence of contamination of the biogeocenosis with ⁹⁰Sr on the population of wood mice.
 In: *Problems and Tasks of Radioecology of Animals*. Moscow, Nauka, P.97-120. (In Russian).
- Ilyenko, A.I., Krapivko, T.P. (1978b). Investigations of the intensity of reproduction in the populations of mammals in the regions contaminated with ⁹⁰Sr . In: 2nd Congr. Theriol. Abstr. Pap. Brno, P.392 .
- Ilyenko, A.I., Krapivko, T.P. (1988). Hypooxigenia in populations of mammalsradionuclidofores. *Proc. USSR Acad. Sci.*, 300(2), pp. 503-504 (In Russian).
- Ilyenko, A.I., Krapivko, T.P. (1988). The effect of radiation on metabolism of rodents In: Bulletin of the Academy of Sciences of the USSR. Series "Biology". 1988a, No.1. P.98-106. (In Russian).
- Ilyenko, A.I., Krapivko, T.P. (1989). *Ecology of Animals in Radiation Biogeocenoses*. Moscow, Nauka (In Russian)

- Ilyenko, A.I., Krapivko, T.P. (1993). Ecological consequences of radioactive contamination for populations of small mammals. In: *Ecological Consequences of Radioactive Contamination in the Southern Urals*. Moscow, Nauka, p. 171-180. (In Russian).
- Ilyenko, A.I., Mazheikite, R.B., Nizhnik, G.V., Ryabtsev, I.A. (1977). Radiosensitivity of red field-voles inhabited in the different geographical regions of European part of USSR. *Radiobiology*, vol.17, N4, p.545-549 (In Russian)
- Ilyenko, A.I., Romanov G.N. (1967). Seasonal and age changes in dose rates in the skeleton of dark field mice from the incorporated ⁹⁰Sr under natural conditions. *Radiobiology*, v.7, No.1. P.90-92 (In Russian).
- Ilyenko, A.I., Ryabtsev I.A. (1980). Problems of avian radioecology. In: *Problems and Tasks of radioecology of animals*. Moscow, Nauka, pp.69-97 (In Russian).
- Ilyenko, A.I., Ryabtsev, I.A. (1974). About the nest conservatism of some species of waterfowl. *Zoological Journal*, vol.53, N2, p.308-310. (In Russian)
- Ilyin, L.A., Gubanov, V.A. (Eds.). (2001). Heavy Radiation Accidents: Consequences and Counter-measures. Moscow, Izdat. – 752 p. (In Russian).
- Impact of Ionizing Radiation on Biogeocenosis. (1988). Acad.Sc.USSR, Moscow, Nauka (In Russian).
- Ivanova, S., Semenov D. (1993). Embryonic abnormalities in lizard *Lacerta vivipara (Sauria, Lacertidae)* collected from radioactive contaminated area. In: Abstracts of 25th Annual meeting of the European Soc. Radiation Biol. Stockholm, 1993. P.12

Ivanovich, B., Tutsovich, A. (1959). Shumarstvo, vol.12, N9-10, p.451.

- Jacobson, B.S. (1957). Evidence for recovery from x-rays damage in Chlamydomonas. *Radiation Res.*,vol.7, N4. (lethal doses)
- Kalchenko, V.A., Fedotov, I.S. (2001). Genetic effects of acute and chronic ionizing irradiation on *Pinus sylvestris L*. inhabiting in the Chernobyl meltdown area. *Genetics*, vol.37, N4, p.437-447.
- Kalchenko, V.A., Fedotov, I.S., Arkhipov, N.P. (1989). Genetic effects in populations of pines exposed to ionizing irradiation after the Chernobyl accident. In: *Chernobyl*-88. Part 2, Chernobyl, pp.74-89.
- Kalchenko, V.A., Fedotov, I.S., Egonina, E.V., Rubanovich, A.V., and Shevchenko, V.A.
 (2000). Radiation and genetic monitoring of populations of Pinus sylvestris L. within the zone of the Chernobyl power plant. *Radiation Biology. Radioecology*, 40 (5), 607-614.
- Kalchenko, V.A., Fedotov, I.S., Rubanovich, A.V. et.al. (1996). Genetic monitoring of pine forests in the area of Chernobyl NPP in 1986-1994. In: *Chernobyl-96*. Proceedings of the Conference, Zeleny Mys, pp.343-346.

- Kalchenko, V.A., Rubanovich, A.V., and Shevchenko, V.A. (1995). Genetic processes in chronically irradiated populations of *Centaurea scabiosa* L., growing on the Eastern Urals radioactive trail. *Radiation Biology. Radioecology*, vol. 35, N5, p.708-720
- Kalchenko, V.A., Rubanovich, A.V., Fedotov, I.S. et.al. (1993). Genetics, vol.29, N7, p.1205.
- Kalchenko, V.A., Shevchenko, V.A., Rubanovich, A.V., and Kolobovnikova, T.M. (1983).
 Variation of leucin aminopeptidase isoenzymes in *Centaurea scabiosa* L. populations under different ecological conditions. *Genetics*, vol.19, N8, p.1244-1250
- Kalchenko, V.A., Shevchenko, V.A., Rubanovich, A.V., Fedotov, I.S., and Spirin, D.A. (1995).
 Genetic effect in populations of *Pinus sylvestris* L. growing on Eastern Urals radioactive trail, zone of the Chernobyl accident and Semipalatinsk nuclear test region. *Radiation Biology. Radioecology*, 35 (5), 702-707
- Kalchenko, V.A., Spirin, D.A. (1989). Genetic effects revealed in populations of *Pinus sylvestris*L. growing under exposure to small doses of chronic irradiation. *Genetics* 25 (6), 1059-1064
- Kalmykov, P.G. (1970). Effects of ionizing irradiation on insects. Atomizdat, Moscow (In Russian)
- Karaban, R.T., Tikhomirov, F.A. (1967). Influence of soil radioactive contamination on pine and fir seedlings. *Radiobiology*, 7 (2), 275-280. (In Russian)
- Karaban', R.T. (1970). Effect of ionizing radiation on seeds and seedlings coniferous trees. *Ph.D.thesis.* Moscow. (In Russian)
- Karaban', R.T., Mishenkov, N.I., Prister, B.S., Alexakhin, R.M., Tikhomirov, F.A., Romanov, G.N., Naryshkin, M.A. (1978). Radiation effects on wood plants in the first year after acute gamma-exposure of forest. *Lesovedenie*, N1, pp.39-45. (In Russian)
- Karaban', R.T., Mishenkov, N.I., Prister, B.S., Alexakhin, R.M., Tikhomirov, F.A., Fiodorov, E.A., Romanov, G.N. (1979). Effect of acute gamma-irradiation on forest biogeocenosis. In: *Problems of forest radioecology*. Proceedings of the Institute of applied geophysics, vol.38. Moscow, p.27-52 (In Russian).
- Karaban', R.T., Mishenkov, N.I., Prister, B.S., Alexakhin, R.M., Tikhomirov, F.A., Romanov, G.N., Naryshkin, M.A. (1978). Radiation effects on wood plants in first year after acute gamma-exposure of forest. *Lesovedenie*, N1, pp.39-45. (In Russian)
- Karaban', R.T., Mishenkov, N.N., Spirin, D.A., Prister, B.S., Alexakhin, R.M. (1980). Damage of wood layer at the acute gamma-exposure in different phenophases. *Report of Academy* of Science of USSR, vol.252, N3. (In Russian)

- Karaban', R.T., Prister, B.S., Alexakhin, R.M., Tikhomirov, F.A., Mishenkov, N.N., Romanov, G.N., Naryshkin, M.A. (1977). After-effects of ionizing radiation on forest biogeocenosis. *Lesovedeniye*, N1, pp.27-35. (In Russian)
- Karaban', R.T., Tikhomirov, F.A. (1968). Radiobiological effect of Sr-90 and Cs-137 on seedlings of pine, fir and larch-tree. *Lesovedeniye*, N2, p.91. (In Russian)
- Kasatkina, S.V., Kosheleva, V.V., Migalovskaya, V.N., Migalovsky, I.P. & Oganesian, S.A. (1973). Chronic impact of dissolved radionuclides ¹⁴⁴Ce and ¹³⁷Cs on the embryonic growth of salmon. In: *Radioecology of aquatic organisms*. Vol. 3, pp. 25 35. Riga, Zinatne. (In Russian).
- Kichigin, A.I. (2001). Radium-mines at the Ukhta River. In: *Biological effects of low dose ionizing radiation and radioactive pollution of the environment*. *BIORAD-2001*. Abstracts of the International conference, March 20-24, 2001, Syktyvkar, Russia. pp.140-141 (In Russian).
- Kiseleva, V.N., Yushkov, P.I. (1977). About comparative radiosensitivity of *Betula vertucosa* Ehrh. and *Betula pubescens Ehrh*. seeds. *Radiobiology*, vol.17, N1, p.133-136. (In Russian).
- Klevezal, G.A., Serezhenkov V.A., Bakhur A.E., Kryshinskaya N.L., Trunova Yu.E., Sokolov A.A. (1999). Dynamics of radiation exposure of northern reindeers in Novaya Zemlya. *Radiation biology. Radioecology*, 37(1), pp.98-103 (In Russian).
- Klevezal, G.A., Sokolov A.A. (1999). Retrospective evaluating the condition of reindeer population inhabited the Novaya Zemlya archipelago during nuclear tests. *Zoological Journal*, 78(1), pp.102-111 (In Russian).
- Korganova G.A. (1973). Effect of experimental contamination of soil on soil protozoa. *Zoological Journal*, Vol.52, N6, p.939-941 (In Russian).
- Kozubov, G.M. (1993). Morpho-functional bases of reactions of coniferous plants on radiation exposure. In: *Radioecological monitoring of natural ecosystems*, Syktyvkar, Proceedings of Komi Research Center of Ural Branch of the Russian Academy of Science, N130, p.93-101. (In Russian).
- Kozubov, G.M., Bannikova, V.P., Taskaev, A.I. et.al. (1988). Investigations of reproduction sphere of *Pinus sylvestris* in the region of the accident on the Chernobyl NPP. Kiev, Institute of Botany, 78p.
- Kozubov, G.M., Patov, A.I., and Kuzin, E.A. (1993). Biometrics studies of vegetative shoots of pine and spruce at chronical irradiation. Radioecological investigations in the thirtykilometer zone of accident on the Chernobyl Nuclear Power Station. *Proceedings of the*

Komi Research Center of Ural Branch of the Russian Academy of Sciences, pp.105-117. (In Russian).

- Kozubov, G.M., Taskaev, A.I. (1991). The Chernobyl forest. Priroda (Nature), N5, p.61-69.
- Kozubov, G.M., Taskaev, A.I. (1994). *Radiobiological and radioecological investigations of wood plants*. St. Petersburg, Nauka, pp.16-247 (In Russian).
- Kozubov, G.M., Taskaev, A.I. (Eds.) (1990). Radiation Impact on the Coniferous Forests in the Region of the Catastrophy on the Chernobyl Atomic Power Station. Syktyvkar, Komi Scientific Center, Academy of Sciences of USSR, Ural Branch. 136 p. (In Russian).
- Kozubov, G.M., Taskaev, A.I., Ladanova, N.B. et.al. (1987). Radioecological investigations of pine forests in the region of the accident on the Chernobyl NPP. Syktyvkar, Proceedings of Komi Research Center of Ural Branch of the Russian Academy of Science, 52 p.
- Krapivko, T.P. (1986). Ecological special features of mammal population in the radiation biogeocenosis (using as an example wood mice). Author's Abstract of the dissertation for the academic degree of kandidate of biological sciences. Moscow. 25 p.
- Krapivko, T.P., Ilyenko A.I. (1988). Formation of radioresistance of the population of wood mice (*Apodemus sylvaticus*) under the exposure to enhanced background of ionizing radiation. *Zoological Journal*, v.67, No.2. P.246-250.
- Krapivko, T.P., Ilyenko, A.I. (1988). The first signs of radioadaptation in populations of the red field vole (Clethrionomus glareolus) in radiation biogeocenosis. *Proc. USSR Acad. Sci.* 302(5): 1272-1274
- Krapivko, T.P., Ilyenko, A.I. (1990). Investigation of the processes of radioadaptation in the field vole (*Clethrionomus glareolus*) – caesiumfores. *Proc. USSR Acad. Sci.*, 315(5), pp.1275-1277
- Krivolutsky, D.A. (1968). Ecological specialization and form-building at beetle mites. *Zoological Journal*, Vol.47, N6, pp. 820-827 (In Russian).
- Krivolutsky, D.A. (1969). The animal kingdom of soil. Moscow, Znanie, 48p. (In Russian).
- Krivolutsky, D.A. (1976). Problems of radioecology of soil animals. In: *Problems of radioecology and boilogical effect of small dose of ionizing radiation*. Syktyvkar, pp.86-93. (In Russian).
- Krivolutsky, D.A. (1978). Beetle mites as indicator of soil conditions. In: *Soil zoology. Zoology of invertebrates.* Vol.5, pp.70-134. (In Russian).
- Krivolutsky, D.A. (1980). The effect of an increased Ra content in the soil on soil animals. In: Proceedings of the VII International soil zoology colloquium of the international society of soil science, pp.391-396

- Krivolutsky, D.A. (1983). Animal kingdom bioindicators of radioactive pollutants. In: *Biology of atom century*. Moscow, Znanie, N7. Pp.37-47 (In Russian).
- Krivolutsky, D.A. (1983). *Radioecology of the terrestrial animal associations*. Energoatomizdat, 87 pp. (In Russian).
- Krivolutsky, D.A. (1985). Soil fauna bioindicator of radioactive contamination. In: *Radioecology of soil animals*. Moscow, Nauka, pp.5-52. (In Russian).
- Krivolutsky, D.A. (1994). Soil fauna in ecological control. Moscow, Nauka, 269 pp. (In Russian).
- Krivolutsky, D.A. (1996). Dynamics of biodiversity in ecosystems under the conditions of radioactive contamination. *Transactions of the Russian Academy of Sciences*, v.347, N.4, pp.567-570 (In Russian).
- Krivolutsky, D.A. (1996). Dynamics of biodiversity in ecosystems under the conditions of radioactive contamination. *Transactions of the Russian Academy of Sciences*, v.347, N.4, pp.567-570 (In Russian).
- Krivolutsky, D.A. Ed. (1985). Radioecology of soil animals. Moscow, Nauka (In Russian)
- Krivolutsky, D.A., Baranov, A.F. (1972). Effect of radioactive soil pollution on ant population. *Zoological Journal*, Vol.51, N8, pp.1248-1251.
- Krivolutsky, D.A., Druk, A.Ya., Semionova, L.M. et.al. (1979). Effect of high contents of radium in soil on soil fauna. *Reports for the Academy of Science USSR*, Vol.243, N2, pp.540-543.
- Krivolutsky, D.A., Fedorova M.N. (1973). Effect of soil contamination by plutonium-239 on field fauna. *Zoological Journal*, Vol.52, N4, p.601-603 (In Russian).
- Krivolutsky, D.A., Filippova, M.N. (1979). Radiobiology, vol.18, N4, p.582. .(In Russian)
- Krivolutsky, D.A., Kozhevnikova T.L. (1972). Effect of radioactive contamination on complexes of soil microfauna of meadow soils. *Ecology*, N2, p.69-74.
- Krivolutsky, D.A., Martushov, V.Z., Ryabtsev, I.A. (1999). Effect of radioactive contamination on animal kingdom in the area of Chernobyl NPP in first period after accident (1986-1988). In: *Bioindication of radioactive pollutants*. Moscow, Nauka, pp.106-122.
- Krivolutsky, D.A., Mikhal'tsova, Z.A. (1980). Methods of study of seasonal and several year dynamic of complexes of soil microfauna. In: *Quantitative methods in ecology of animals*. Moscow, Nauka, pp.75-76.
- Krivolutsky, D.A., Mikhal'tsova, Z.A. (1983). Bioindication of effect of ionizing radiation on surface and soil animals. In: *Applied aspects of program "Man and biosphere*", VINITI, pp.27-36. (In Russian)

- Krivolutsky, D.A., Ovcharenko, V.I., Turchaninova, V.A. (1975). Effect of high content of natural radioactive elements of uranium and radium in soil on soil fauna. In: *Problems of soil zoology*. Vilnius, pp.189-190. (In Russian)
- Krivolutsky, D.A., Pokarzhevskii (1992). Effects of radioactive fallout on soil animal populations in the 30-km zone of the Chernobyl atomic power station. *Sci.Total Environment*, 112, pp.69-77
- Krivolutsky, D.A., Pokarzhevsky, A.D. (1979). Radioecology of soil animals in agrocenoses. Proceedings 1st all-union conference of agricultural radiology, p.173. Moscow (In Russian)
- Krivolutsky, D.A., Pokarzhevsky, A.D., Taskaev, A.I. et.al. (1981). Migration of natural radionuclides (uranium, radium, thorium) through saprophagous populations. Reports to the Academy of Science USSR, Vol.260, N6, pp.1507-1509. (In Russian)
- Krivolutsky, D.A., Pokarzhevsky, A.D., Usacheov, V.L., Shein, G.N., Nadvorny, V.G.,
 Viktorov, A.G. (1990). Effect of radioactive contamination of environment on soil fauna in the area of Chernobyl NPP. *Ecology*, N6, pp.32-42. (In Russian)
- Krivolutsky, D.A., Semyashkina, T.M. (1980). Effect of high content of thorium in soil on soil mesofauna of middle taiga. In: *Migration and biological effect of radionuclides in conditions of northern biogeocenoses*. Syktyvkar, pp.119-124. (In Russian)
- Krivolutsky, D.A., Semyashkina, T.M., Mikhal'tsova, Z.A. (1983). Effect of high natural radioactivity on soil fauna. *Information bulletin of Science Council of Academy of Science* USSR on the problems of radiobiology, Vol.28, pp.28-29. (In Russian)
- Krivolutsky, D.A., Semyashkina, T.M., Mikhal'tsova, Z.A., Turchaninova, V.A. (1980).Earthworms as bioindicators of radioactive contamination. *Ecology*, N6, pp.67-72. (In Russian)
- Krivolutsky, D.A., Taskaev, A.I., Testov, B.V. et.al. (1983). *Dynamics of animal inhabitation on plots with high level of radionuclides in soil*. Syktyvkar, Vol.90, pp.1-40. (In Russian)
- Krivolutsky, D.A., Tikhomirov, F.A. (1974). Effects of radioactive contamination of environment on insects and other ground invertebrates. In: *Readings in memory of Cholodkovsky*. Moscow, Nauka, pp.49-68. (In Russian)
- Krivolutsky, D.A., Tikhomirov, F.A., Korganova, G.A. (1980). Some problems of radioecology of ground and soil animals. *In: Proc. 3 Int. Conf. Bioindicators Deterioris Regionis*.
 PP.209-217. Praha, Academia
- Krivolutsky, D.A., Turchaninova, V.A. (1972). Accomulation of Strontium-90 by soil animals and seasonal changes their numbers on radoistrontium contaminated plot. In: Problems of soil zoology. *Nauka*, pp.81-82. (In Russian)

Krivosheina, M.G. (1999). Ecological-faunistic study of flies in the East-Ural radioactive trace.In: *Bioindication of radioactive contaminants*. Moscow, Nauka, pp.145-155 (In Russian).

- Kryshev, A.I. (1998). Modelling of accidental radioactive contamination and assessment of doses to biota of the Chernobyl NPPs cooling pond. In: *Proceedings of the topical meeting of International Union of Radioecologists, Mol, 1 – 5 June 1998.* Balen, Belgium, BVG, pp. 32 – 38.
- Kryshev, A.I. (2002). The dynamics of exposure to hydrobionts in the highly contaminated Ural lakes. In: *Proceedings from the International Conference on Radioactivity in the Environment, Monaco, 1 – 5 September 2002.* NRPA, Norway, p. 172 – 175.
- Kryshev, A.I., Sazykina, T.G., Strand, P. & Brown, J.E. (2002). Radioecological model for dose estimation to Arctic marine biota. In: *Proceedings of the 5th International Conference on Environmental Radioactivity in the Arctic and Antarctic, St.Petersburg, 16 20 June 2002*. NRPA, Norway, pp. 326 329.
- Kryshev, I.I. (1990). Estimation of radiation doses for members of biological communities in the regions contaminated by the Chernobyl NPP accident.. In: *Biological and Radioecological Consequences of the Accident at the Chernobyl Nuclear Power Plant*. p. 115. Proceedings of the 1st International Conferenc, Zeleny Mys, September 1990. Moscow (In Russian)
- Kryshev, I.I. (1995). Radioactive contamination of aquatic ecosystems following the Chernobyl accident. *J. Environ. Radioact.*, 27(3): 207-219
- Kryshev, I.I. (Ed.) (1997). Environmental Risk Analyses for the Ural Radioactive Pattern. Russian Nuclear Society, Moscow. - 210 p.
- Kryshev, I.I. (Ed.). (1992). *Radioecological Consequences of the Chernobyl Accident*. Moscow, Nuclear Society. - 142 p.
- Kryshev, I.I. (Ed.). (1992). Radioecological Consequences of the Chernobyl Accident. Moscow, Nuclear Society
- Kryshev, I.I., Romanov, G.N., Sazykina, T.G., Isaeva, L.N., Trabalka, J.R. & Blaylock, B.G. (1998). Environmental contamination and assessment of doses from radiation releases in the Southern Urals. *Health Physics*, 74 (6), 687 697.
- Kryshev, I.I., Romanov, I.N., Isaeva, L.N. & Cholina, Yu.B. (1997). Radioecological state of lakes in the Southern Ural impacted by radioactive release of the 1957 radiation accident. *Journal of Environmental Radioactivity*, 34 (3), 223 – 235.
- Kryshev, I.I., Ryabov, I.N., Sazykina, T.G. (1993).Using a bank of predatory fish samples for the bioindication of radioactive contamination of aquatic food chains in the area affected by the Chernobyl accident. *Science of Total Environment*, 139/140, pp.279-285

- Kryshev, I.I., Sazykina, T.G. (1990). Simulation Models for the Dynamics of Ecosystems under Conditions of the Anthropogenic Impact of TPP and NPP. Moscow, Energoatomizdat. (In Russian).
- Kryshev, I.I., Sazykina, T.G. (1995). Assessment of radiation doses to aquatic organisms in the Chernobyl contaminated area. *J. Environ. Radioactivity*, 28(1), pp.91-103
- Kryshev, I.I., Sazykina, T.G. (1998). Radioecological Effects on Aquatic Organisms in the Areas with High Levels of Radioactive Contamination: Environmental Protection Criteria. *Radiation Protection Dosimetry*, 75 (1-4), 187 – 191.
- Kryshev, I.I., Sazykina, T.G., Hoffman, F.O., Thiessen, K.M., Blaylock, B.G., Feng, Y., Galeriu, D., Heling, R., Kryshev, A.I., Kononovich, A.L. & Watkins, B. (1999). Assessment of the consequences of the radioactive contamination of aquatic media and biota for the Chernobyl NPP cooling pond: model testing using Chernobyl data. *Journal of Environmental Radioactivity*, *42* (2-3), 143 156.
- Kryshev, I.I., Sazykina, T.G., Ryabov, I.N., Chumak, V.K. & Zarubin, O.L. (1996). Model Testing Using Chernobyl Data: II. Assessment of the Consequences of the Radioactive Contamination of the Chernobyl Nuclear Power Plant Cooling Pond. *Health Physics*, 70 (1), 13 17
- Kudinov, M.A. (1968). Radiobiology, vol.8, N2, p.313. (In Russian)
- Kudyasheva, A.G., Shishkina, L.N., Zagorskaya, N.G., Taskaev, A.I. (1997). Biochemical Mechanisms of Radiation Damages of Natural Populations of Mice. Saint-Petersburg, Nauka. (In Russian).
- Kulepanov, V.N., Dzyuba, S.M., Ivanovskii, Yu.A. (1989). Impact of gamma-exposure on gametogenesis of scallop. *Abstracts of the reports at the First All-Union Radiobiological Conference*. Vol.1. Academy of Sciences of USSR, Puschino, pp.207-208 (In Russian).
- Kulikov N.V., Molchanova I.V. (1975). *Continental radioecology (soil and freshwater ecosystems)*. Moscow, Nauka (In Russian).
- Kulikov, N.V. (1969). Modification of radiosensitivity of tench on different studies of development. Mechanisms of biological effects of ionizing radiation (Thesis of reports of the 2nd Republican scientific conference). Lvov, Ukraine (In Russian).
- Kulikov, N.V. (1970a). About impact of radionuclides on hydrobionts. In: *Transactions of the Institute of Ecology of Plants and Animals of the Academy of Sciences of the USSR*, issue 74, Sverdlovsk (In Russian).
- Kulikov, N.V. (1970b). Radiosensitivity of tench (*Tinca tinca* L.) on different studies of development. *Radiobiology*, Vol.10, N1 (In Russian).
- Kulikov, N.V. (1970c). Radiosensitivity of pike eggs during fertilization and early cell-division. *Radiobiology*, Vol.10, N5 (In Russian).

- Kulikov, N.V. (1971). Current state of fresh-water radioecology and basic directions of research on this problem. In: *Transactions of the Institute of Ecology of Plants and Animals of the Academy of Sciences of the USSR, issue 78*, Sverdlovsk (In Russian).
- Kulikov, N.V., Alshitz, L.K., Timofeeva, N.A. (1971). Impact of gamma rays of cobalt-60 on embryonic growth of fresh-water fish (by the example of pike *Esox lucius* L. and tench *Tinca tinca* L.). In: *Transactions of the Institute of Ecology of Plants and Animals of the Academy of Sciences of the USSR*, issue 78, Sverdlovsk (In Russian).
- Kulikov, N.V., Famelis, S.A. (1970). Modification of radiosensitivity of *Limnaea stagnalis* L. on different studies of development. In: *Transactions of the Institute of Ecology of Plants* and Animals of the Academy of Sciences of the USSR, issue 74, Sverdlovsk (In Russian).
- Kulikov, N.V., Timofeeva, N.A. (1967). Radiosensitivity of *Limnaea stagnalis* L. at different studies of development. *Information bulletin "Radiobiology*", N.10 (In Russian).
- Kulikov, N.V., Timofeeva, N.A., Lyubimova, S.A. (1966). Impact of ionizing radiation on the early stages of development *Limnaea stagnalis* L. *Radiobiology*, Vol.6, N6 (In Russian).
- Kulikov, N.V., Timofeeva, N.A., Shishenkova, L.K. (1968). On radiosensitivity of developing embryos of tench (*Tinca tinca* L.). *Radiobiology*, Vol.8, N3 (In Russian).
- Kupriyanova, E.B. (1992). Terrestrial Isopods in the Chernobyl accident Zone. In: Soil organisms and soil health. 11th International colloquium in soil zoology. Jvyaskyla, Finland, 10-14 August, p.231.
- Kupriyanova, E.B. (1999). Condition of micropopulations of ground *isopodae* in Chernobyl as assessment method of radiation effect. In: *Bioindication of radioactive pollutants*.
 Moscow, Nauka, pp.178-186. (In Russian).
- Kushniruk, V.A. (1962). Radiosensitivity of birds. In: *Biological Effects of Radiation*. Lvov: Lvov University, pp.81-83 (In Russian).
- Kuzin, A.M. (1980). Invisible rays around us. Moscow, Nauka. (In Russian)
- Kuzin, A.M. (1986). Structural-metabolic theory in radiobiology. Moscow, Nauka. (In Russian).
- Kuzin, A.M., Kopulov (1982). Radiotoxines. Moscow, Nauka. (In Russian).
- Ladanova, N.V. (1985). Seasonal and age changes of ultrastractural organization of anabolic apparatus of spruce. Complex biocenological investigation of European North-East forests. In: *Transactions of Komi Research Center of Academy of Science of USSR*, N.78, p.35-45. Syktyvkar (In Russian).
- Ladanova, N.V. (1992). Ultrastructure organization of different-age spruce needles at the radiation exposure. *Radiobiology*, vol.32, N.5, p.640-645. (In Russian).
- Ladanova, N.V. (1993a). Ultrastructure organization of pine needles at the radiation exposure. *Radiobiology*, vol.33, N.1, p.25-30. (In Russian).

- Ladanova, N.V. (1994). Structure of anabolic apparatus of conifers under the influence of *ionizing radiation*. St. Petersburg, Nauka. (In Russian).
- Ladanova, N.V., Kuzivanova, S.V., Kozubov, G.M. (1990). Effect of ionizing irradiation on needle anatomy and ultrastructure. In: *Radiation effects on coniferous forests in the area of accident on the Chernobyl NPP*. Ed. by Kozubov, G.M. and Taskaev, A.I. Syktyvkar, p.63-89. (In Russian).
- Lebedeva G.D., Sinevid S.G. (1958). The effect of radioactive strontium on survival and reproduction of *Daphnia magna*. Reports to the Academy of Sciences of the USSR, v.122, No.4, p.586-588. (In Russian).
- Lebedeva, N.V. (1994). Populations of great tit and pied flycatcher in the area of the Eastern-Ural radioactive pattern. *Reports to the Academy of Sciences*, Vol.335. No.4. P.535-537. (In Russian).
- Lebedeva, N.V., Ryabtsev I.A. (1999). Accumulation of radionuclides in birds. In: *Bioindication* of radioactive contaminants. Moscow, Nauka, pp.72-85 (In Russian).
- Lebedeva, N.V., Ryabtsev I.A., Beloglazov M.V. (1996). Population radioecology of birds. Uspekhi Sovremennoi Biologii (Achivements of Modern Biology), No.4. P.432-446 (In Russian).
- Lebedinsky A.V., Nakhilnitskaya Z.N. (1960). The effect of ionizing radiation on the nervous system. Moscow, Atomizdat (In Russian).
- *Life of animals*. (1984). Ed. by Gilyarov, M.S. and Pravdin, F.N. Moscow, Education, Vol.3, 464 p. (In Russian).
- Lisenkova L.N. (1973). Changes in the responsiveness of animals under chronic ray exposure in small doses. - In: *Theoretical and Practical Aspects of the Effect of Low Doses of Ionizing Radiation.* Syktyvkar, pp.16-18. (In Russian).
- Lyapin, E.N., A.M. Podgusrsky, R.A. Knyazeva (1971). The effect of radiation from Co-60 and Mn-54 on the roe of trout. In: *Problems of marine radiobiology*. Transactions of AtlantNIRO, issue 45, pp 53-60 (In Russian).
- Makeeva, A.P., Yemeljanova, N.G., Belova, N.V. & Ryabov, I.N. (1994). Radiobiological analysis of silver carp *Hypophthalmichthys molitrix* in the cooling pond of the Chernobyl NPP in the post-accidental period. II. Development of the reproductive system of the fish in the 1st generation. *Voprosi ichtyologii (Problems of Ichthyology), 34 (5), 681 696.* (In Russian).
- Makhnev, A.K. (1971). Changeability of generative organs of birch in connection with ecogeographical and genetic factors. In: *Proceedings of Institute of Plant and Animals*

*Ecology of Ural Research Center of the Academy of Science of USSR, vol.*82, p.30-79. (In Russian).

- Makhnev, A.K. (1978). Intraspecific changeability of Ural's birches by the biological features of seeds. In: Proceedings of Institute of Plant and Animals Ecology of Ural Research Center of the Academy of Science of USSR, vol.116, p.11-62. (In Russian).
- Mamaev, S.A., Govorukha, G.I. (1973). Individual changeability of basic types of Ural's birches by heat resistance. *Ecologia*, N2, p.96-97. (In Russian).
- Marey, A.N. (1976). Sanitary protection of water bodies from contamination with radioactive substances. Moscow, Atomizdat. 222 p.(In Russian)
- Mashneva, N.I., Sukalskaya, S.Ya. (1973). Experimental study of impact of the fission isotope mixture on the embryonic growth of freshwater fish in dependence from the absorbed dose.
 In: *Radioecology of aquatic organisms*. Vol. 3, pp. 45 49. Riga, Zinatne. (In Russian).
- Maslov, V.I. (1971). Research methods in radioecology of animal in the areas of high radioactivity.- In: *Methods of radioecological investigations*. – Moscow, Atomizdat, pp.128-140. (In Russian).
- Maslov, V.I. (1972). On the realization of complex radioecological investigations in biogeocenoses of high-level natural radioactivity. In: *Radioecological investigations in natural biogeocenoses*. – Moscow, Nauka, pp.9-21. (In Russian).
- Maslov, V.I. (1972). Radiation situation in dwellings and shelters of mouse-like rodents in the conditions of high natural radioactivity. – In: *Radioecological investigations in natural biogeocenoses*. – Moscow, Nauka, pp.216-226. (In Russian).
- Maslov, V.I. (1972). Radioecology of grouse birds in biogeocenoses of the thorium region. In: *Radioecological Investigations in Natural Biogeocenoses*. Ed. by I.N. Verkhovskaya. Moscow, Nauka. P.190-215. (In Russian).
- Maslov, V.I. (1973). Accumulation of uranium, radium and thorium by radioecological group of animals in a close contact with radioactive materials in the environment. In: *Theoretical and practical aspects of operating of low level radiation doses*. Syktyvkar: Komi Branch of Academy Science of USSR, p.100-101. (In Russian).
- Maslov, V.I. (1974). Accumulation of natural radioactive elements by populations of mouse-like rodents in different radioecological conditions of natural biogeocenoses. Syktyvkar, Komi Branch of Academy Science of USSR. (In Russian).
- Maslov, V.I. (1976). Accumulation of natural radioactive elements by populations of vertebrate animals in northern taiga. In: *Problems of radioecology and biological effects of low level radiation doses*. Syktyvkar, Komi Branch of Academy Science of USSR., p.156-165. (In Russian).

- Maslov, V.I. (1976). Problems of radioecology of natural biogeocenoses at high level radioactivity. In: *Problems of radioecology and biological effects of low level radiation doses*. – Syktyvkar, Komi Branch of Academy Science of USSR., p.17-29. (In Russian).
- Maslov, V.I. (1980). Interaction of animals and plants of riverine and riparian biogeocenoses with elements exported by the river from thorium anomaly. In: *Migration and biological effects of natural radionuclides in conditions of northern biogeocenoses*. Syktyvkar, Komi Branch of Academy Science of USSR, p.5-24. (In Russian).
- Maslov, V.I. (1983). The experience and results of long-term complex radioecological investigations in natural biogeocenoses of high natural radioactivity. In: *Radioecological investigations of soils, plants and animals in the North biogeocenoses*. Syktyvkar, Komi Branch of Academy Science of USSR, p.6-21. (In Russian).
- Maslov, V.I., Gruzdev V.I., Maslova K.I. (1969). The role of muriform rodents in the biogenic migration of uranium, radium and thorium under different radioecological conditions. In.: *Simposium International de radioecologie*. Centre d etudes nucleaires de Cadarache, 1969, p.923-961.
- Maslov, V.I., Maslova K.I. (1972). Radioecological groups of mammals and birds in biogeocenoses of regions of high natural radioactivity. In: *Radioecological researches in natural biogeocenoses*. Moscow, Nauka, p.161-172. (In Russian).
- Maslov, V.I., Maslova K.I. (1972). Some problems of radioecology of otter from biogeocenoses in thorium area. In: *Radioecological investigations in natural biogeocenoses*. Moscow, Nauka, p.173-191. (In Russian).
- Maslov, V.I., Maslova K.I., Gruzdev B.I. (1980). Change of reproduction intensity of tundra voles under the action of radioecological factors. In: *Migration and biological effects of natural radionuclides in conditions of northern biogeocenoses*. Syktyvkar, Komi Branch of Academy Science of USSR, p. 91-100. (In Russian).
- Maslov, V.I., Maslova K.I., Verkhovskaja I.N. (1967). Charhacteristics of the radioecological groups of mammals and birds of biogeocenoses with high natural radiation. – In.: *Radioecological concentration processes*. Oxford – London: Pergamon Press, p.561-571.
- Maslova, K.I. (1978). Infuencing of ecological factors of high level natural radioactivity on an organisms of mouse-form rodents. In: *Radioecology of soil animals*. Moscow, Nauka, p.33-59. (In Russian).
- Maslova, K.I. (1978). Radiosensivity of taiga rodents and their adaptation to ionizing radiation as radioecological factor of the environment. Syktyvkar, Komi Branch of Academy Science of USSR, 23p. (In Russian).

- Maslova, K.I. (1980). Reactions of populations and peculiarities of adaptation of animal organisms to ionizing radiation as radioecological factor of the environment. In: *Migration and biological impact of natural radionuclides in the conditions of northern biogeocenoses*. Syktyvkar, Komi Branch of Academy Science of USSR, issue N.46, p.75-90. (In Russian).
- Maslova, K.I., Materij L.D. (1974). Morphological changes in a peripheric blood and spleen of voles in the environment of high level radioactivity. – In: *Problems of radioecology of terrestrial biogeocenoses*. – Syktyvkar, Komi Branch of Academy Science of USSR, p.74-79. (In Russian).
- Maslova, K.I., Verhovskaya, I.N. (1976). Biological effects of enhanced radioactivity on animal organism in natural conditions. In: *Problems of radioecology and biological effects of the small doses of ionizing radiation*. Syktyvkar, Komi Branch of Academy Science of USSR, p.127-141. (In Russian).
- Materij, L.D. (1979). Cytomorphological study of blood of tundra voles (Microtus economus Pall.) living in conditions of high level natural radioactivity. Ph. Thesis. Syktyvkar (In Russian).
- Materij, L.D., Maslova K.I. (1977). Morphological changes in a hemogenetic system of animals living for a long time in the conditions of high natural radioactivity. Inform. Bulletin of Scientific Board of the Acad.Sc. USSR on the problem "Radioecology", N1, pp.107-1090 (In Russian).
- Materij, L.D., Maslova K.I. (1978). On mictonuclei in the cells of peripheric blood of *Microtus oeconomus Pall*, inhabiting sites with elevated natural radioactivity. *Radiobiology*, 18(6), pp.919-922 (In Russian).
- Melekhina, E.N., Krivolutsky, D.A. (1993). Long-term dynamics of microarthropodes epiphytic lichens in the region of Chernobyl NPP. Radiological investigations in 30-km zone of Chernobyl NPP. Syktyvkar, Komi Science Center, N127, pp.60-72. (In Russian).
- Methodical instructions on the use of dosimetry in radiobiological studies (1976). Compiled by: Shekhanova I.A., Prister B.S., Ryabov G.G., Shein G.P., Peshkov S.P. Moscow, VNIRO (In Russian).
- Migalovskaya, V.N. (1970). Chronic effect of ⁹⁰Sr + ⁹⁰Y on the frequency of chromosome aberrations in the cells of salmon embryos. In: *Transactions of PINRO*, issue 29, p.74-81. (In Russian).
- Mikityuk, A.Yu., Ermakov A.A. (1990). The effect of low doses of ionizing radiation on the level of basal metabolism of birds. In: *Biological and Radioecological Aspects of the*

Consequences of the Accident at the Chernobyl NPP. Moscow, Academy of Sciences of the USSR., p.68 (In Russian).

Miksche, J.P., Rudolph, T.D. (1968). Radiation Bot., vol.8, N2. (lethal doses)

Mishenkov, N.I., Spirin, D.A., Alexakhin, R.M., Karaban', R.T., Fiodorov, E.A., Romanov, G.N. (1983). Radiation and post-radiation changes in forest biogeocenosis at acute gamma-exposure. Report 1. *Radiobiology*, Vol.23, N2, pp.220-223. (In Russian).

Mitchell, M.J., Reichke, D.E., Styron, C.E. (1969). ORNL-4446, N320, p.47. (lethal doses)

- Moiseev, A.A., Maslov V.I., Testov B.V., Ovchenkov V. Ya. (1973). The dose loads on mouselike rodents inhabiting the site of high level radioactivity. Moscow, State Committee on the Use of Nuclear Energy. (In Russian).
- Molchanova, I.V., Karavaeva, E.N., Mikhylovskaya, L.N., Yushkov, P.I., Pozolotina, V.N., Bazhenov, A.V. (1994). Radionuclides in hydromorphic soils of zone of radiation accident on the South Ural. In: *Radiation, Ecology, Health*. Part1. Ekaterinburg, Institute of Industrial Ecology, p.66-72. (In Russian).
- Moskalev, Yu.I. (1989). Radiobiology of incorporated radionuclides. Moscow, Energoatomizdat. 263 pp. (In Russian).
- Moskalev, Yu.I. (1991). Ultimate Consequences of Ionizing Radiation. Moscow, Medicina. (In Russian).
- Muntyan, S.P. (1977). Investigation of the populations of goldfish and crucian carp living in water bodies with the increased concentration of ⁹⁰Sr. In: *Radioecology of Animals*, *Proceedings of the First All-Union Conference*. Moscow, Nauka, pp. 81 83. (In Russian).
- Muntyan, S.P. (1977). On the reproduction of pike and perch in an experimental water body with the increased content of ⁹⁰Sr and ¹³⁷Cs. In: *Radioecology of Animals*. Proceedings of the First All-Union Conference. Moscow, Nauka, pp.82-83.(In Russian)
- Muntyan, S.P. (1993). Investigation of fish populations under condition of radioactive contamination of the environment. In: *Ecological Consequences of Radioactive Contamination in the Southern Urals*. Moscow, Nauka, pp. 187-191. (In Russian).
- Myasnyankina, E.N., Generalova, M.V., Zaynullin, V.G., Shevchenko, V.A., Rakin, A.O. (1991). Increased radiation background effect on frequency of mutations in populations of *Drosophila* in the Chernobyl zone. In: Problems of the environmental and natural resources. N5, pp.45-56 (In Russian).
- Nazarov, V.A., Levchenko M.A. (1963). The condition of higher nervous activity in progeny. In: *The effects of radioactive substances on sex functions and progeny*. Ed. D.I.Zakutinsky. Moscow, Medgiz, pp. 87-116 (In Russian).

- NCRP. National Council on Radiation Protection and Measurements. (1991). *Effects of Ionizing Radiation on Aquatic Organisms*. NCRP Report N 109, Bethesda, Maryland, USA.
- Nechaevskii, Yu.V. (1989). Impact of direct and indirect effects of X-radiation to sperma of loach on development of impregnated spawn. In: *Abstracts of the reports at the First All-Union Radiobiological Conference*. Vol.1. Academy of Sciences of USSR, Puschino, pp.225-226 (In Russian).
- Nechaevskii, Yu.V. (1989). Impact of direct and indirect effects of X-radiation to sperma of loach on development of impregnated spawn. In: Abstracts of the reports at the First All-Union Radiobiological Conference. Vol.1. Academy of Sciences of USSR, Puschino, pp.225-226 (In Russian).
- Neustroev, G.V. (1966). The effect of radioactive contamination of the aquatic environment on the red blood of embryos and larvae of salmon (*Salmo salar L.*) In: *Reproduction and acclimatization of salmon species in the Barents and Kara seas*. Transactions of the Murmansk Marine Biological institute, Scientific Center of the Academy of Sciences, issue 12 (16) (In Russian).
- Neustroev, G.V., Podymakhin V.N. (1966). On the rate of development of salmon roe under conditions of radioactive contamination of the aquatic environment with ⁹⁰Sr ⁹⁰Y. Radiobiology, v.6, issue 2, p.321-323. (In Russian).
- Niaussat, P. (1968). Rev.corps.de sante, vol.9,N2, p.243. (lethal doses)
- Nikitin, S.A. (1958). Introduction to radiobiology. Kiev, Gosmedizdat. (In Russian)
- Nilov, V.I. (1973). The influence of ⁹⁰Sr ⁹⁰Y on embryonic and post-embryonic development of grass carp. In: *Ecology of Hydrobionts of Water Bodies in Kazakhstan*. Alma-Ata, p.117-136 (In Russian)
- Nilov, V.I., Fedoseenko V.M., Shekhanova I.A. (1976). Eye-lesion of grass carp on chronic intake to the organism of ⁹⁰Sr. *Voprosi ihtiologii (Problems of Ichthyology)*, 16(5), pp. 937 942. (In Russian).
- Nilov, V.I., Fedoseienko V.M., Shekhanova I.A. (1976). Eye-lesion of grass carp on chronic intake to the organism of ⁹⁰Sr. *Voprosi ichtiologii (Problems of Ichthyology)*, v.16, issue 5 (100), p.937-942. (In Russian)
- O'Brien, R.D., Wolfe, L.S. (1964). *Radiation, Radioactivity and Insects*. Academic Press, *N.Y.* (lethal doses)
- Onanko, Yu.I. (1973). Radioresistance of the plankton crustaceans. *Fish Industry*, *3*, 18 20. (In Russian).
- Orlov, E.V. (1973). To the assessment of the effect of low doses of chronic radiation in aquarium experiments with Tilapia fish. In: *Theoretical and Practical Aspects of the Effect of Low*

Doses of Ionizing Radiation. Syktyvkar, USSR Academy of Sciences, pp. 47 – 48. (In Russian).

- Orlov, E.V. (1974). Ecological-physiological aspect in experiments with chronic exposure of *Tilapia* fish to low doses in solutions of ⁹⁰Sr. In: *Transactions of VNIRO*, v.100, p.116-127. (In Russian)
- Osborne, T.S., Lunden, A.O. (1961). *Internat. J.Appl. Radiation and Isotopes*, vol.10, N4, p.198. (lethal doses)
- Pautov, Yu.A., Il'chukov, S.V. (1993). State of wood and natural renewal in pine wood in zone of lethal and sublethal damage. Radioecological investigations in 30-km area of the Chernobyl NPP. In: Transactions of the Komi Research Center of Ural Branch of the Russian Academy of Science, issue 127, p.118-132. Syktyvkar. (In Russian).
- Pechkurenkov, V.L. (1974). Rate of exposure and somatic mutagenesis of fish embryos. In: Transactions of VNIRO, N.100, pp.103-115 (In Russian).
- Pechkurenkov, V.L. (1990). Assessment of the genetic consequences of the accident on Chernobyl NPP for silver carp contained in the cooling pond. In: Proceedings of the All-Union Coordinating Meeting (Samarkand, 8-10 October 1990) "Genetic Consequences of Environmental Contamination by mutagenic factors", pp.141-142 (In Russian).
- Pechkurenkov, V.L. (1991). Accident on Chernobyl NPP in 1986 and populations of fish in the cooling pond. In: Problems of the environmental and natural resources. N5, pp.79-87 (In Russian).
- Pechkurenkov, V.L., Pokrovskaya, G.L. (1978). On correspondence of data on incubation of fish eggs in solutions with different activity Sr-90-Y-90 in the laboratory conditions and natural reservoirs. *Voprosi Ichthyologii (Problems of Ichthyology)*, vol.18, N6 (113), pp.1118-1127 (In Russian).
- Pelgunov, A.N., Larchenko T.T. (1999). Changes in the infestation of mouse-like rodents with helminthes in the sites of radioactive contamination in the Bryansk region. In: *Bioindication of radioactive contaminants*. Moscow, Nauka, pp.339-345 (In Russian).
- Peredelsky, A.A. (1957). In: *Totals of science*. Vol.1. Radiobiology. Moscow, Academy of Sciences of USSR, vol.1, p.313.(In Russian)
- Pertsov, L.A. (1978). *Biological aspects of radioactive contamination of sea*. Moscow, Atomizdat (In Russian).
- Peshkov, S.P., Shekhanova I.A., Romanov G.N., Prister B.S., G.P. Shein. (1978). Biological characteristic of roach living in the water containing ⁹⁰Sr and ¹³⁷Cs. In: *Problems of radioecology of cooling ponds of nuclear power plants*. Transactions of the Institute of

Ecology of Plants and Animals. Ural Scientific Center of the Academy of Sciences of the USSR, issue 110, pp.47-55. (In Russian).

- Pitkyanen, G.B. & Shvedov, V.P. (1971). Impact of ⁹⁰Sr on the development of the pike roe and larvae. In: *Transactions of the Atlantic Branch of the Institute of Fish Industry and Oceanography (AtlantNIRO)*. Vol. 45, pp. 61 – 64. Kaliningrad, AtlantNIRO. (In Russian).
- Pitkyanen, G.B. (1971). The results of incubation of pike roe (*Esox lucius L.*) in mixed solutions of Sr-90 and Cesium-137. In: *Transactions of the Inst. of Ecology of Plants and Animals, Ural Sc. Center of the Academy of Sciences of the USSR, issue 78.* Sverdlovsk (In Russian)
- Pitkyanen, G.B. (1978). The effect of chronic exposure of pike (*Esox lucius L.*) on its reproductive function. In: *Transactions of the Inst. of Ecology of Plants and Animals. Ural Sc. Center of the Academy of Sciences of the USSR*, issue 114. Sverdlovsk (In Russian)
- Pokrovskaya, G.L. (1977). The influence of ⁹⁰Sr ⁹⁰Y and some functional burdens on the developing roe of loach. In: *Radioecology of Animals*. Moscow, Nauka, p.87-88. (In Russian)
- Polikarpov, G.G. (1957). On the task of development of radiation after effects. *Biophysics*, vol.2, N2..(In Russian)
- Polikarpov, G.G.(1966). *Radioecology of Aquatic Organisms*. New York: North-Holland Publ. Co-Amsterdam, Reinhold Book Div.
- Polikarpov, G.G., Tsytsugina, V.G. (1996). Study of the after-effects of the Chernobyl NPP accident on hydrobionts populations (1986-1996). *Radiation Biology. Radioecology*. Vol.36, N4, pp.460-468 (In Russian).
- Polyakova, N.I. (2001). Radioecology of the pike (*Esox lucius*) from the Kiev Reservoir at the period after the accident on the Chernobyl NPP. *Voprosy ihtiologii (Problems of* Ichthyology), 41 (3), 391 398. (In Russian).
- Pomerantseva, M.D. (1957). Effect of narcosis and natural hibernation on radiosensitivity of animals. *Journal of General Biology*, vol.28, N3, p.194-207. .(In Russian)
- Popova, O.N., and Frolova, N.P. (1996). Teratological variability in the posterity of *Plantago* lanceolata L. from the zone of accident on the Chernobyl Nuclear Power Station. In: Influence of radioactive contamination on terrestrial ecosystems in the region of the Chernobyl Nuclear Power Station (1986-1996). Transactions of the Komi Research Centre of Ural Branch of the Russian Academy of Sciences, issue 145, pp. 38-46. (In Russian).
- Popova, O.N., Frolova, N.P. (1993). Early features of development of morphological variability in fifth after-disaster reproduction of *Plantago lanceolata* L. in the accident zone.
 Radioecological investigations in 30 km zone of accident on the Chernobyl NPP. In:

Transactions of the Komi Research Center of Ural Branch of the Russian Academy of Science, Syktyvkar, N127, p.74-81. (In Russian).

- Popova, O.N., Frolova, N.P., and Taskaev, A.I. (1993). Level of phenotypic variety in the posterity of postaccident reproduction of *Plantago lanceolata* L. In: *Radioecological monitoring of natural ecosystems*. Transactions of the Komi Research Centre of Ural Branch of the Russian Academy of Sciences, issue 130, pp. 64-79 Syktyvkar. (In Russian).
- Popova, O.N., Frolova, N.P., and Taskaev, A.I. (1994). Ecological and geographical experiencre of Viola matutina Klok. seed generations from the thirty kilometers zone of the Chernobyl accident . *Radiation Biology. Radioecology*, 34 (6), 872-876 (In Russian).
- Popova, O.N., Frolova, N.P., Ulle, Z.G., Trofimova, N.A. (1991). Assessment by posterity of seeds quality forming in chronicle irradiated phytocenoses. In: *Transactions of the Komi Research Center of Ural Branch of the Russian Academy of Science*, issue 120, pp.95-107. Syktyvkar (In Russian).
- Popova, O.N., Shershunova, V.I. (1981). Frequency of waxy-mutations in pollen grains of barley raised in condition of chronicle irradiation by lower doses. *Genetics*, vol.17, N.7, p.1229-1233. (In Russian).
- Popova, O.N., Shershunova, V.I. (1987). Resistance of demonstration in posteries of morphological features of *V.cracca* L. seeds from chronicle irradiated phytocenosis. In: *Transactions of the Komi Research Center of Ural Branch of the Russian Academy of Science*, Syktyvkar, N81, p.69-76. (In Russian).
- Popova, O.N., Shershunova, V.I., Kodaneva, R.P. (1985b). Analysis of growth power of seeds of natural *V.cracca* L. populations for assessment of their radiosensitivity. *Radiobiology*, vol.25, N5, p.700-703. (In Russian).
- Popova, O.N., Shershunova, V.I., Kodaneva, R.P., Taskaev, A.I. (1985a). Changeability of V.cracca L. population on the territory imitating of uranium-radium contamination.
 Preprint. Syktyvkar, 34p. (In Russian).
- Popova, O.N., Shershunova, V.I., Kodaneva, R.P., Taskaev, A.I. (1984). Radiosensitivity of V. *Cracca L.* seeds depending on radioecological conditions of vegetation. *Radiobiology*, vol.24, N5, p.714-716. (In Russian).
- Popova, O.N., Shershunova, V.I., Kodaneva, R.P., Taskaev, A.I. (1985). Development of chlorophyll insufficiency in natural populations of *V.cracca* L depending on radioecological conditions of vegetation. *Genetics*, vol.21, p. 670-672. (In Russian).
- Popova, O.N., Shershunova, V.I., Kodaneva, R.P., Taskaev, A.I., Nikiphorov, V.S. (1984). Level of chromosomal anomalies in natural population of *V.cracca L*. in condition of

experimental uranium-radium contamination. *Radiobiology*, vol.24, N3, p.397-400. (In Russian).

- Popova, O.N., Shershunova, V.I., Taskaev, A.I., Suslikov, V.I. (1986). Analysis of survival of *V.cracca* L. posterities received from the chronicle irradiated phytocenosis. *Radiobiology*, vol.26, N3, p.360-364. (In Russian).
- Popova, O.N., Taskaev, A.I. (1977). Investigations of contamination paths of plants by polonium-210 and lead-210. *Radiobiology*, vol.17, N6, p.924-927. (In Russian).
- Popova, O.N., Taskaev, A.I. (1980). Pathways of Po-210 and Pb-210 in plants. Migration and biological action of natural radionuclides in conditions of northern biogeocenosis. In: *Transactions* of *the Komi Research Center of Ural Branch of the Russian Academy of Science*, p.43-51. Syktyvkar (In Russian).
- Pozolotina, V.N. (1980). Individual changeability of radiosensitivity seeds of two kinds of birch. *Ecologiya*, N4, p.52-56. (In Russian).
- Pozolotina, V.N. (1985). Character of development of birch seedlings under the influence of ionizing radiation. *Ecology*, N.4, pp.78-80 (In Russian).
- Pozolotina, V.N. (1989). Individual changeability of seeds radiosensitivity of *Taraxacum* officinale Wigg. In: Radioresistance and postradiation restoration of plants. Sverdlovsk, p.17-25. (In Russian).
- Pozolotina, V.N. (1990). Long-term effects of radiation in plants. *Radiobiology*, vol.30, N5, p.655-660. (In Russian).
- Pozolotina, V.N. (1996). Adaptation processes at the plants in the conditions of radiation effects. *Ecologia*, N2, p.111-116. (In Russian).
- Pozolotina, V.N. (1996). Adaptation processes of plants under the influence of radiation. *Ecologia*, N.2, pp.111-116 (In Russian).
- Pozolotina, V.N. (2001). Analysis of local dandelion (*Taraxacum officinale* s. I.) cenopopulations from radioactively contaminated zones. *Ecologia*, N.2, pp. 117-124 (In Russian).
- Pozolotina, V.N., and Kulikov, N.V. (1988). Perculiarities of post-radiation restoration in model birch populations. *Ecologia*, N.1, pp. 28-33 (In Russian).
- Pozolotina, V.N., Molchanova, I.V., Karavaeva, E.N., Sergeyev, A.M., and Kulikov, N.V. (1992). Ultimate effects of chronic irradiation of plants within the zone of Eastern-Ural radioactive track. *Radiobiology*, 32 (6), pp.851-855 (In Russian).
- Pozolotina, V.N., Molchanova, I.V., Karavaeva, E.N., Sergeyev, A.M., Kulikov, N.V. (1992). Ultimate effects of chronic irradiation of plants within the zone of Eastern-Ural radioactive track. *Radiobiology*, vol.32, N6, p.851-855. (In Russian).

- Pozolotina, V.N., Yushkov, P.I., Kulikov, N.V. (1991). Viability of dandelion seed generations in the conditions of chronicle exposure in zone of the ChNPP. *Ecologia*, N5, p.81-84. (In Russian).
- Preobrazhenskaya, E.I. (1959). Botanic Journal, vol.44, N1, P.68. .(In Russian)
- Preobrazhenskaya, E.I. (1961). Abstract of dissertation. Sverdlovsk, Ural Branch of the Russian Academy of Science. (In Russian)
- Preobrazhenskaya, E.I. (1971). Radiosensitivity of plant seeds. Moscow, Atomizdat. 230 p. (In Russian)
- Prister, B.S., Shein, G.P., Karaban', R.T. et.al. (1977). Lesovedenie, N2, p.72-79. (In Russian)
- Privalov, G.F. (1963). Radiobiology, vol.3, N5, p.770. (In Russian)
- Privalov, G.F. (1968). Genetics, vol.4, N6, p.144. (In Russian)
- Pyastolova, O.A., Vershinin V.L., Trubetskaja E.A., Gatiatullina Ye.Z. (1996). Using of Amphibia in the bioindicatoring studies in the territory of the East-Ural radioactive trace. *Ekologia (Ecology)*, N.5, pp.378-382 (In Russian)
- Pyatyshev, D.R. (1979). Study of mutagenesis on different stages of cell cycle of Chlorella by sector mutant colonies test. Ph.D.thesis. (In Russian)
- Radiobiological Symposium in Czechoslovakia (4-8 September, 1967) (1968). Radiobiology, vol.8, N1, p.164. (lethal doses)
- Raziulyte R., Jankevichius K., Saulenaite-Budriene S., Jankavichiute G. (1973). Influence of gamma-rays and temporary factor on planktonic biocenosis. In: *Radioecology of aquatic organisms*. N2. Distribution and migration of radionuclides in fresh-water and marine biocenosis. Riga, Zinatne, pp.73-77 (In Russian).
- Reichle, D.E., Witherspoon, J.P., Mitchell, M.J., Styron, C.E. (1972). USAEC Symposium seria *"Survival of food crops and live-stock in the event of nuclear war"*, CONF-700909, p.527. (lethal doses)
- Romanovskaya, V.A., Sokolov, I.G., P.V. Rokitko, and N.A. Chernaya. (1998). Effect of
 Radioactive Contamination on Soil Bacteria in the 10-km Zone around the Chernobyl
 Nuclear Power Plant. *Microbiology*, vol.67, No.2. P.281-286 (In Russian)
- Rubtsov, D.M. (1962). Soil radioecological researches in Komi Autonomous Republic. In: Report to Komi Branch of Geographical Association of USSR, N2, P.105-108. (In Russian)
- Rubtsov, D.M. (1971). Soils investigations in some biogeocenoses with high levels of natural radioactive elements. In: *Methods of radioecological investigations*. Moscow, Atomizdat, p.24-33. (In Russian)

- Rubtsov, D.M. (1972). Distribution of uranium and radium in rocky podzol soils of a sparse forest. *Radioecological researches in natural biogeocenoses*. Moscow, Nauka, p.42-66. (In Russian)
- Rubtsov, D.M. (1974). *Humus and natural elements in rock soils of Komi Autonomous Republic*. Leningrad, Nauka. (In Russian)
- Ryabtsev, I.A. (1980). Concentrating of radioactive isotopes by water-fowl and near-water birds and their radiation-hygienic significance. Dissertation for the academic degree of candidate of Biological Sciences. Moscow. 131 pp. (In Russian).
- Ryabtsev, I.A., Beloglazov M.V. (1991). Changes in the size of eggs in hollow-nesters (using pied flycatcher as an example) depending on the level of radioactive contamination of the nesting area. In: *International Symposium on Bioindication and Biomonitoring*. Zagorsk, pp.273-274. (In Russian).
- Ryabtsev, I.A., Lebedeva N.V. (1999). Avian radioecology. Rostov-on-Don, BIOS. (In Russian).
- Ryabtsev, I.A., Tarasov O.V. (1993). The results of investigations of radioecology of birds. In: *Ecological Consequences of Radioactive Contamination in the Southern Ural*. Moscow, Nauka. P.194-225. (In Russian).
- Schechmeister, J.L., Watson, L.J., Cole, V.W., Jacson, L.L. (1962). The effect of x-irradiation on gold-fish. I. The effect of x-irradiation on survival and susceptibility of the goldfish *Carassius auratus* to infection by *Aeromonas salmonicida* and *Gyrodactylus spp.*, vol.16, N1, p.89-97. (lethal doses)
- Semenov, D.V., Ivanova S.A., Roitberg E.S. (1999). Herpetological surveys in the East-Ural radioactive trace. In: *Bioindication of radioactive contaminants*. Moscow, Nauka, pp.134-144 (In Russian).
- Semyashkina, T.M. (1983). Effect of high contents of uranium and thorium in soils on soil fauna of different biotops of Komi ASSR. In: *Radioecological investigations of soils, plants and animals in biogeocenoses of North.* Syktyvkar, pp.54-58. (In Russian)
- Semyashkina, T.M. (1985). Effect of high contents of thorium and uranium in soil on soil fauna. In: *Radioecology of soil animals*. Ed.by Krivolutsky, D.A. Moscow, Nauka, pp.144-147. (In Russian).
- Shekhanova, I.A. (1983). *Radioecology of fish*. Moscow, Publ.House "Light and Food Industry", 208 pp. (In Russian).
- Shekhanova, I.A., Belmakov, V.S. & Lapin, V.I. (1969). The impact of ⁹⁰Sr ⁹⁰Y on mature loach, kept in solutions of different activity. *Voprosi ihtiologii (Problems of ichtiology)*, 9 (5), 828 – 838. (In Russian).

- Shekhanova, I.A., Orlov, E.V. & Shleifer, G.S. (1978). The problem of radioactive contamination of aquatic environment and its impact on fish. In: *Transactions of the Institute of Ecology of Plants and Animals, Ural Scientific Center of the Academy of Sciences of the USSR*, 110, 27 – 39. (In Russian).
- Shershunova, V.I., Zainullin, V.G. (1995). Monitoring of natural populations of *Dactylis glomerata L.* growing within zone of the Chernobyl NPP. *Radiation Biology*. *Radioecology*, vol.35, N5, 690-695. (In Russian).
- Shershunova, V.I., Zainullin, V.G., and Taskaev, A.I. (1993). Analysis of frequency of chlorophyll mutations in natural populations of *Dactylis glomerata L*. from the 30-km zone. In: *Radioecological investigations in the 30-km zone of accident on the Chernobyl Nuclear Power Station*. Transactions of the Komi Research Centre of Ural Branch of the Russian Academy of Sciences, issue 127, p.82-88. (In Russian)
- Shevchenko, V.A. (1979). *Radiation genetics of unicellular algae*. Moscow, Nauka, 256 p. (In Russian).
- Shevchenko, V.A. (1990). Genetic consequences of the action of ionising radiations on natural populations after the Kyshtym accident. In: *Proceedings of seminar on comparative assessment of the environmental impact of radionuclides released during three major nuclear accidents: Kyshtym, Windscale, and Chernobyl.* CEC, EUR 13574, Luxembourg, 1-5 Oct 1990, pp. 821-866
- Shevchenko, V.A., Abramov, V.I., Kalchenko, V.A., Fedotov, I.S., Rubanovich, A.V. (1996). Genetic consequences of radioactive pollution of the environment caused by the Chernobyl accident for plants populations. *Radiation Biology. Radioecology*, vol.36, N4, p.531-545. (In Russian)
- Shevchenko, V.A., Pomerantseva, M.D. (1985). *Genetic effects of ionizing radiation*. Moscow, Nauka, 279 pp. (In Russian).
- Shevchenko, V.A., Pomerantseva, M.D., Ramaya, L.K., Chechovich, A.V. (1991). Genetic consequences of Chernobyl accident for mammals. In: Problems of the environmental and natural resources, N5, pp.66-79 (In Russian).
- Shevchenko, V.A., Vizgin, V.P., Alekseenok, A.Ya., Kogan, I,G., Pyatyshev, D.R., Rogatyh, N.P. (1969). Study of mutation process in population of one-cell algae of Chlorella and Chlamydomonas at acute and chronic exposure by ionizing irradiation. *Genetics*, Vol.5, N9, pp.61-73. (In Russian)
- Shevchenko, V.A., Yatskavichute, A.Z., Rubanovich, A.V. (1978). Study of genetics effects induced in populations due to radioactive products of ²³⁵U. Report 3. Comparative study of

chronic effect of radioactive and chemical mutagens on Chlorella populations. *Genetics*, Vol.14, N7, pp.1221-1230. (In Russian)

- Shevchenko, V.V., Grinikh, L.I. (1995). Cytogenetic effects in *Crepis tectorum* populations from Bryansk region observed in the 7-th year after the Chernobyl accident. *Radiation Biology*. *Radioecology* 35 (5), 720-725 (In Russian)
- Shevchenko, V.V., Grinikh, L.I., Abramov, V.I. (1998). Cytogenetic effects in natural Crepis tectorum populations growing at the East-Ural radioactive track. *Radiation Biology*. *Radioecology*, vol.38, N3, p. 330-336. (In Russian)
- Shevchenko, V.V., Grinikh, L.I., Shevchenko, V.A. (1995). Cytogenetic effects in natural Crepis tectorum populations subjected to chronic irradiation within the zone of the Chernobyl NPP. Analysis of frequency of chromosome aberrations and karyotypic changes 3-4 year after the accident. *Radiation Biology. Radioecology*, vol.35, N5, 695-701. (In Russian)
- Shevchenko, V.V., Pechkurenkov, V.L., Abramov, V.I. (1993). *Radiation genetics of natural populations*. Moscow, Nauka, 365 pp. (In Russian)
- Shishkina, L.N., Kudryashova, A.G., Zagorskaya, N.G., Matery, L.D., Taskaev, A.I. (1990).
 Regulation system of peroxide oxidation of lipids and disturbances in liver of rodents at areas of Chernobyl NPP accident. In: *Biological and radioecological aspects of the consequences of the Chernobyl accident*. Abstracts of the Ist International Conference ("Zeleny Mys", 10-18 September, 1990), p.231. Moscow, USSR Academy of Sciences. (In Russian).
- Shleifer, G.S. (1976). The influence of ionizing radiation on the immunophysiological condition of fish. - Moscow: VNIRO, 16 p. (The manuscript was deposited in TsNIITEIFH on 7 April 1976, No.60.) (In Russian)
- Shleifer, G.S., Shekhanova, I.A. (1977). The influence of ionising radiation on some factors of fish immunity. In: *Radioecology of Animals. Proceedings of the First All-Union Conference.* Moscow, Nauka, p. 93 – 94. (In Russian).
- Shleifer, G.S., Shekhanova, I.A. (1980). The impact of ionizing radiation on the immunophysiological state of fish. In: *Problems and tasks of animal radioecology*. Moscow, Nauka, p. 35 – 43. (In Russian)
- Shubik, V.M. (1977). Ionizing radiation and the immunity. Moscow, Atomizdat. (In Russian)
- Sidorov, V.P. (1994). Cytogenetic effects in *Pinus sylvestris* needle cells as a result of the Chernobyl accident. *Radiation biology. Radioecology*, vol.34, N6, p.847-851. (In Russian)
- Sidorov, V.P. (1996) Radiobiological effects of irradiation of pine resulted from the accident on the Chernobyl Nuclear Power Station. In: Chernobyl - 94: Results of 8 years work on liquidation of consequences of accident on the Chernobyl Nuclear Power Station.

Proceedings of the IV International Science-Technical Conference. Vol.1, pp. 472-477. Chernobyl. (In Russian)

- Smagin, A.I. (1996). Radioecological features of the water body for waste storage from radiochemical plants and the state of the population of pike (*Esox lucius*) inhabiting it. *Problemy Radiatsionnoy Bezopasnosti (Problems of Radiation Safety*), 2, 35 – 45. (In Russian).
- Smagin, A.I., Fetisov, A.N. (1996). Radioecology of the water reservoir storage of radiochemical wastes on the Techa River and the condition of fish populations dwelling this water body. In: *Biological effects of low dose ionizing radiation and radioactive pollution of the environment. BIORAD-2001*. Abstracts of the International conference, March 20-24, 2001, Syktyvkar, Russia. pp.94-95 (In Russian)
- Smirnov, E.G., Shein, G.P., Curo, N.V., Mal'tseva, L.N. (1983). Effects of acute gamma irradiation on meadow vegetation. *Ekologia*, N6, p.34-38. (In Russian)
- Sokolov, V.E., Ilyenko, A.I., Krivolutsky, D.A. (1975). In: *Detailed analysis of environment*. p.177. Moscow, Gidrometeoizdat (In Russian).
- Sokolov, V.E., Krivolutzky, D.A. (Eds.). (1993). Ecological After-effects of the Radioactive Contamination of the Southern Urals. Moscow, Nauka (In Russian)
- Sokolov, V.E., Pokarhevskii, A.D., Kozhevnikova, T.L., Rjabzev, I.A., Isaev, S.I., Loktionov, V.E. (1993). Populations of mammals on the territory of the Eastern Ural radioactive trace.
 In: *Ecological after-effects of the radioactive contamination at South Ural*. Moscow, Nauka, pp.156-171. (In Russian).
- Sokolov, V.E.; Ryabov, I.N.; Ryabtev, I.A.; Kulikov, A.O.; Tikhomirov, F.A.; Shcheglov, A.I.;
 Shevchenko, V.A.; Kryshev, I.I.; Sidorov, V.P.; Taskaev, A.I.; Kozubov, G.M., Testov,
 B.V. and Materii, L.D. (1994). *Effects of Radioactive Contamination on the flora and fauna in the Vicinity of the Chernobyl Nuclear Power Plant.* -Physiology and General
 Biology Reviews, vol.8, Harwood Academic Publishers. 124 p.
- Sonin, M.D., Pelgunov A.N., Larchenko T.T. (1990). Changes in the helminth-fauna of small rodents in the near zone of the Chernobyl NPP. In: *Biological and Radioecological Aspects* of the Consequences of the Accident at the Chernobyl NPP. Moscow, Academy of Sciences of the USSR, p.79 (In Russian).
- Sperrow, A. H, Wudvell, D.M. (1968). In: *Issues of radioecology*. Moscow, Atomizdat, p.57. (lethal doses) (Russian translation)
- Spirin, D.A., Alexakhin, R.M., Karaban', R.T., Mishenkov, N.I. (1985). Radiation and postradiation changes in forest biogeocenosis at acute gamma-exposure. Effect of acute

gamma-irradiation on production of pine-birch forest. *Radiobiology*, Vol.25, N1, pp.125-128. (In Russian).

- Spirin, D.A., Martyushev, V.Z., Smirnov, V.G., Tarasov, O.V. (1990). Impact of radiation contamination on fauna in the 30-km zone of the Chernobyl NPP. In: *Biological and radioecological aspects of the consequences of the Chernobyl accident*. Abstracts of the Ist International Conference ("Zeleny Mys", 10-18 September, 1990). Moscow Academy of Sciences of USSR, p.71 (In Russian).
- Spirin, D.A., Mishenkov, N.N., Alexakhin, R.M., Karaban', R.T. (1983). Damage to Scotch pine trees of different quality classes by acute gamma-irradiation. *Lesovedenie*, N3, pp.87-89. (In Russian)
- Spirin, D.A., Mishenkov, N.N., Karaban', R.T., Alexakhin, R.M. (1981). Effect of acute gammaexposure on anabolic apparatus of pine birch stand. *Lesovedenie*, N4 (In Russian).
- Stearner, S.P., Tyler S.A. Comparative aspects of acute radiation mortality in birds. *Int. Journal Radiat. Biol.*, 8(3), pp.205-215 (lethal doses)
- Storozhuk, N.G. & Shekhanova, I.A. (1977). Lipoperoxidation in the liver and muscles of carp yearlings on long-term living in the environment with the increased content of radionuclides. In: *Radioecology of Animals. Proceedings of the First All-Union Conference*. Moscow, Nauka, pp. 89 – 91. (In Russian).
- Strelchuk, S.I. (1975). Demonstration of high radiosensitivity of variable cells of barley. *Cytology and genetics*, vol.9, N5, p.450-452. (In Russian).
- Strelchuk, S.I., Strelchuk, G.R., Nechaenko, A.E. (1973). Role of generative selection at the creation of mutant lines of corn. *Cytology and genetics*, vol.7, N1, p.51-54. (In Russian).
- Stroganov, N.S., Telitchenko, M.M. (1958). Chronic impact of the low-level doses of U-238 on gonads of bleaks. *Bulletin of Moscow Society of Nature Researchers*. Department of Biology, Vol.53(4), p.154 (In Russian).
- Stroganov, N.S., Telitchenko, M.M. (1959). Chronic impact of the low-level doses of some radioactive substances on the number of generations *Daphnia magna*. *Bulletin of Moscow Society of Nature Researches*. Department of Biology. Vol.54(1), pp.154-155 (In Russian).
- Stroganov, N.S., Telitchenko, M.M. (1959). Chronic impact of the low-level doses of some radioactive substances on the number of generations *Daphnia magna*. *Bulletin of Moscow Society of Nature Researches*. Department of Biology. Vol.54(1), pp.154-155 (In Russian).
- Styron, C.E. (1973). *Health Physics*, vol.25, p.281. (lethal doses)

Sullivan, R.L., Grosh, D.S. (1953). Nucleonics, vol.11, N3. (lethal doses)

Surso, M.V. (1993). Effect of chronic exposure on male reproductive sphere of Scotch pine. In: *Radioecological investigations in 30-km area of Chernobyl NPP*. Transactions of the Komi Research Center of Ural Branch of the Russian Academy of Science, issue 127, pp.133-144. Syktyvkar (In Russian).

- Suvorova, L.I., Spirin, D.A., Martyushev, V.Z., Smirnov, E.G., Tarasov, O.V., Shein, G.P. (1993). Assessment of biological and ecological consequences of radioactive contamination of biogeocenoses. In: *Radiation Aspects of the Chernobyl Accident*. Vol.2, pp.321-325. St.-Petersburg, Gidrometeoizdat. (In Russian).
- Taskaev, A.I. (1979). Mechanisms of distribution and migration of isotopes U, Ra, Th, and Rh in a soil-plant cover in a region of high natural radioactivity. Ph. Thesis. Syktyvkar (In Russian).
- Taskaev, A.I., Shevchenko, V.A., Popova, O.N. et al. (1988a). *Eco-genetic consequences of the Chernobyl accident for flora*. A series of preprints "Scientific reports". Syktyvkar, Komy Scientific Center of the Academy of Sciences of Russia (In Russian).
- Taskaev, A.I., Shevchenko, V.A., Popova, O.N. et.al. (1988). Eco-genetic consequences of accident on the Chernobyl NPP for flora. Preprint. Syktyvkar, Komy Scientific Center of the Academy of Sciences of Russia (In Russian).
- Taskaev, A.I., Testov, B.V., Materiy, L.D., Shevchenko, V.A. (1988). Ecological and Morpho-Phisiological Consequences of Chernobyl Accident on mice. Preprint. Syktyvkar, Komi Scientific Center of the Academy of Sciences of USSR. (In Russian).
- Taskaev, A.I., Testov, B.V., Matery, L.D., Shevchenko, V.A. (1988b). Ecological and morphophysiological consequences of the Chernobyl accident for mouse-type rodents. A series of preprints "Scientific reports". Syktyvkar, Komy Scientific Center of the Academy of Sciences of Russia (In Russian).
- Telitchenko, M.M. (1958). Chronic impact of the low-level doses of U-238, Th-232, Sr-89,90 on the number of generations *Daphnia magna* Straus. *Scientific Reports of Higher Education*. *Biological Sciences*, N1, pp.114-118 (In Russian).
- Testov, B.V. (1974). The impact of ecological factor on the accumulation and distribution of radionuclides in organisms of voles, and radiation doses in the conditions of high-level radioactivity. - Syktyvkar, Komi Scientific Center of the Academy of Sciences of USSR. (In Russian).
- Testov, B.V. (1993). Effect of radioactive contamination on populations of mouse-shaped rodents. Ph.D.thesis, Ekatherinburg. (In Russian).
- Testov, B.V., Moiseev A.A. (1974). Problems of estimating the radiation doses to animals in natural conditions. In: *Problems of radioecology of terrestrial biogeocenoses*. –
 Syktyvkar, Komi Scientific Center of the Academy of Sciences of USSR, pp.65-73. (In Russian).

- Testov, B.V., Taskaev A.I. (1971).Concentrations of radioactive emanations in burrows of mouse-form rodents in the regions of high natural radioactivity. – In: *Materials of radioecological researches in natural biogeocenoses*. - Syktyvkar, Komi Scientific Center of the Academy of Sciences of USSR, pp.65-77. (In Russian).
- Tikhomirov, F.A. (1972). *Effects of Ionising Radiations on Ecological Systems*. Moscow, Atomizdat (In Russian).
- Tikhomirov, F.A. (1993). Distribution and migration of radionuclides in the forests within the south Urals radioactive trail of fallout. In: *Ecological Consequences of Radioactive Contamination in the Southern Urals*. Moscow, Nauka, pp. 21-39 (In Russian).
- Tikhomirov, F.A., Fedotov, I.S. (1982). Radiosensitivity of generative and vegetative organs of *Pinus sylvestris* in autumn and spring time. *Radiobiology*, vol.22, N4, p.502-506. (In Russian).
- Tikhomirov, F.A., Shcheglov, A.I. (1994). Main results of investigations on the forest radioecology in the Kyshtym and Chernobyl accident zones. *Science of Total Environ*, v.157, pp.45-47.
- Tikhomirov, F.A., Sidorov, V.P. (1990). Radiation damage of forest in the zone of the Chernobyl NPP. In: *Biological and radioecological aspects of the consequences of the Chernobyl accident*. Abstracts of the Ist International Conference ("Zeleny Mys", 10-18 September, 1990). Moscow, USSR Academy of Sciences, p.18 (In Russian).
- Timofeeva N.A., Alshits L.K. (1970). The influence of chronic exposure on the development of pike roe. In: *Transactions of the Institute of Ecology of Plants and Animals of the Academy of Sciences of the USSR, issue 74*, p.8-11. Sverdlovsk, Ural Scientific Centre of the USSR Academy of Sciences. (In Russian).
- Timofeeva, N.A., Koulikov, N.V. & Alshits, L.K. (1971). Impact of ⁹⁰Sr ⁹⁰Y on the embryonic development of some freshwater fish and mollusks. In: *Transactions of the Institute of Ecology of Animals and Plants. issue 78*, pp. 145 148. Sverdlovsk, Ural Scientific Centre of the USSR Academy of Sciences. (In Russian).
- Timofeieva, N.A., Alshits L.K. (1970). The influence of chronic exposure on the development of pike roe. *Transactions of the Institute of Ecology of Plants and Animalsof the Academy of Sciences of the USSR, issue 74*, p.8-11. Sverdlovsk, Ural Scientific Centre of the USSR Academy of Sciences. (In Russian).
- Tsytsugina, V.G., Polikarpov, G.G. (2000). *Proceedings of the Conference in Memory of N.V.Timofeev-Resovskii.* JSBN 966-02-1750-1. Sevastopol, pp.70-79 (In Russian).

- Tsytsugina, V.G., Polikarpov, G.G. (2002). Identification of Radiation, Chemical and Combined Effects on Natural Populations of Aquatic Organisms. *Radiation Biology. Radioecology*. Vol.42, N5, pp.569-573 (In Russian).
- Turbin, N.V., Volodin, V.G., Gordey, I.A. (1977). *Heterosis and radioresistance of plants*. Minsk, Nauka i technika. (In Russian).
- Turchaniniva V.A., Tikhomirov F.A. (1973). Effect of contamination of soils with radioactive isotopes Sr-90 and Y-90 on soil-dwelling invertebrates. *Ecologia*, N5, p.101. (In Russian).
- UNSCEAR. United Nations Scientific Committee on the Effects of Atomic Radiation. (1996). Effects of Radiation on the Environment, Annex to Sources and Effects of Ionizing Radiation (1996 Report to the General Assembly, with one Annex), Scientific Committee on the Effects of Atomic Radiation, UN, New York.
- Vavilov, P.P., Gruzdev B.I., Maslov V.I. et.al. (1977). The results of the long-term experiment on the decontamination of radium and uranium-radium areas in the conditions of northern taiga. *Ecology*, N6, p32-38. (In Russian)
- Viktorov, A.G. (1989). Ecology, karyology, radiosensivity of heteroploid races of earthworms. Ph.D.thesis. Moscow (In Russian)
- Viktorov, A.G. (1999). Radiosensivity and radiopathology of earthworms, their using in bioindication of radioactive contaminations. In: *Bioindication of radioactive pollutants*, Moscow, Nauka, pp.213-217. (In Russian)
- Voitovich, A.M. (2001). Bone tumor in frog (*Rana temporaria*. L) in radionuclide-contaminated environment. *Reports of Belarus National Academy of Sciences*. 45 (1), 91-94(In Russian)
- Voitovich, A.M., Afonin V.Yu. (2002). DNA damages and radionuclide accumulation in wild small vertebrates. In: *Environmental Radioactivity in the Arctic and Antarctic*. Proc. of the 5th Int. Conf. St.-Petersburg, 16-20 June 2002, Russia. PP.340-343 (In Russian)
- Voronina, E.A. (1973). Growth and fertility of *Tilapia* fish under chronic exposure to radiostrontium. *Abstract of the dissertation for an academic degree of candidate of biological sciences*. Moscow: VNIRO, p. 1 – 27. (In Russian).
- Voronina, E.A. (1974). The effect of incorporated radiostrontium on genital glands of males of Tilapia. In: *Trudy VNIRO (Transactions of the State Research Institute for Marine Fishery and Oceanography)*, 100, 84 – 93. (In Russian).
- Voronina, E.A., Peshkov S.P., I.A. Shekhanova. (1977). Biological indices of chronically exposed populations of goldfish. In: *Radioecology of Animals*.. Proceedings of the First All-Union Conference. Moscow, Nauka, pp.71-73. (In Russian).

- Voronina, E.A., Peshkov, S.P. & Shekhanova, I.A. (1974). Growth rate and fertility of fish living in the media with enhanced level of radiation. In: *Trudy VNIRO (Transactions of the State Research Institute for Marine Fishery and Oceanography), 100,* 74 – 79. (In Russian).
- Voronina, E.A., Shekhanova, I.A., Peshkov, S.P. & Muntyan, S.P. (1978). Biological characteristic of goldfish, inhabiting the media contaminated with radioactivity. In: *Trudy VNIRO (Transactions of the State Research Institute for Marine Fishery and Oceanography)*, 134, 122 – 131. (In Russian).
- Yatskavichute, A.Z. (1977). The study of dynamic behavior of chronic effects of chemical and physical mutants on Chlorella populations. Ph.D.thesis, Vilnius (In Russian).
- Yatskavichute, A.Z. (1977). The study of dynamic behaviour of chronic effects of chemical and physical mutants on Chlorella populations. Ph.D.thesis, Vilnius (In Russian).
- Yefremova, G.A., Bychkova E.I., Gembitsky A.S. et al. (1989). Changes in parasitocomplexes of birds under the influence of radiation contamination in the territory of Belarus. In: Ist All-Union Radiobiological Congress, Moscow, August 21-27, 1989. Abstracts of Papers. Vol.2. Pushchino, 1989. P.445-446. (In Russian).
- Zaitseva, I.G. (1975). Special features of embryogenesis of some commercial species of fish under exposure to ionizing radiation. Author's abstract of the dissertation paper for an academic degree of candidate of biological sciences. Moscow, VNIRO. (In Russian).
- Zaynullin, V.G. (1998). *Genetic Effects of Chronic Irradiation in Small Doses of Ionizing Radiation*. Saint-Petersburg, Nauka. (In Russian).
- Zaynullin, V.G., Rakin, A.O., Taskaev, A.I. (1994). The dynamics of frequency of the genetic disturbances on the micro populations of mice in the Chernobyl zone. *Radiation Biology*. *Radioecology*. Vol.34, N 6, pp.847-851 (In Russian).
- Zaynullin, V.G., Taskaev, A.I., Bashlykova, L.,A., Zagorskaya, N.G.Rakin, A.O., Shevchenko, V.A., Myasninkina, E.N., Generalova, M.V. (1988). The genetic consequences of the Chernobyl accident for natural populations of mice and *Drosophila*. Syktyvkar, Komi Scientific Center, Academy of Sciences of USSR. (In Russian).
- Zhdanova, N.N., Vasilevskaya, A.I., Artyshkova, L.V., Gavriluk, V.I. (1990). Species composition of micromycelium contaminated radionuclides of soils. *Mikologia i phitopatologia (Mycology and phytopathology)*, Vol.24, N4. pp.298-308. (In Russian).
- Zhdanova, N.N., Vasilevskaya, A.I., Zacharchenko, V.A.(1999). Micromycelium of soils contaminated as a result of Chernobyl accident and their contribution to migration processes of radionuclides. In: *Bioindication of radioactive pollutants*, Moscow, Nauka, pp.352-356. (In Russian).