

Dr. Olga Nikolaïevna Zezina

(3.2.1937 – 12 2014)

**Doctor of Biological Sciences (1983)
Chief Researcher.**



In 1954 he graduated with a gold medal school, and in 1959 - with honors ichthyology department of the Moscow Technical Institute of Fishing Industry and Economy. Al Mikoyan at the Department of Hydrobiology. Thesis work is performed under the supervision of Professor NS Gaevskaya.

In 1960 he went to work in the Laboratory of the Institute of Oceanology of the benthos, where at the end of part-time graduate studies under the leadership of L.A. Zenkevich defended her thesis, and in 1983 - her doctoral thesis.

On the basis of domestic and foreign taxes it formed the world's largest collection of modern brachiopods, analysis of their areas on the slopes of the continents, islands and underwater ridges and first proposed scheme biogeographic division bathyal zone of the ocean, promising for economic development, but still insufficiently studied. Proved the role of brachiopods as indicators of natural bottom biofilter of the ocean deeper photic layer. The results of processing massive deepwater fees it received the first empirical evidence of the relationship between production and biomass abyssal benthic invertebrates.

In terms of research into the history of formation of modern marine fauna, it develops the hypothesis of the mechanism of conservation of faunal relicts in different depth zones of the ocean and is working as a universal concept *gipomorfoza* direction deepwater invertebrates adaptation of different taxonomic groups.

Participated in a 6th-ocean expeditions, including the last 65 minutes flight "Vityaz" in 1979.

An active participant in interagency and international congresses and symposia, the results of their research is frequently reported at congresses oceanographers, marine geology schools, made presentations at the 23rd International Geographical Congress in Moscow, brachiopod Congress in London, the Pacific Science Congress in Khabarovsk and Moscow.

Her articles have been published in national and international publications. She - participated in many monographs, including monographs "Pacific Ocean", "Oceanology. Biology of the ocean", "Biology of hydrothermal systems," "The Red Book of the Russian Federation", "Biota Russian waters of the Sea of Japan," "Illustrated keys to determine benthic invertebrates of the northern seas of Russia"; compiler and editor of seven thematic laboratory collections. Is a member of the Hydrobiological and Paleontological Society, Moscow Society of Naturalists, a member of two specialized councils for defending candidate and doctoral theses at IO RAS and VNIRO.

The author of 180 scientific papers and 3 monographs.

Personal monograph

Zezina ON 1976. Ecology and distribution of modern brachiopods. M.: Nauka. 1976. 138 p.

Zezina ON 1985. Modern brachiopods and problems bathyal zone of the ocean. M.: Nauka. 1985. 248 p.

Zezina ON 1997. Modern brachiopods as part of the natural bottom of the biofilter seas of Russia. M.: publication of the Paleontological Institute, Russian Academy of Sciences. 1997. 85.

Participation in collective monographs and thematic collections

Pacific Ocean. Biology. Deep sea benthic fauna / holes. Ed. LA Zenkevich. M.: Nauka. 1969.

The fauna of the Kurile-Kamchatka Trench and the conditions of its existence / holes. Ed. VG Bogor. M.: Nauka. 1970. Issued English translation of the book: Fauna of the Kurile-Kamchatka Trench and its environment / VG Bogorov ed. Jerusalem: Israel Program for Scientific Translations. 1972.

Integrated studies of the continental slope in the Gulf of Alaska / holes. Ed. ZA Filatov M.: Nauka. 1973.

- Completed the English translation of the book at the request of the Biological Station in Nanaimo (Canada, Vancouver). 1973.
- Bonitet oceans. Zoning of the species composition of the population / holes. Ed PA Moiseev et al. M.: Food Industry. 1973.
- Integrated studies of the Caribbean Sea, the Gulf of Mexico and adjacent waters / holes. Ed. TS Russ. M.: Nauka. 1975.
- Biological studies in the South Atlantic and in the Peruvian-Chilean gutter / holes. Ed. ZA Filatov. M.: Nauka. 1975.
- Benthic fauna marginal seas of the USSR / Ed. Ed. AP Kuznetsov. M.: ed. Institute of Oceanology. 1976.
- Oceanology. Biology of the oceans. Biological structure of the ocean / holes. Ed. ME Vinogradov. M.: Nauka. 1977. Issued Polish translation of the book: Oceano-biologia, biologiczna struktura oceani / eds ME Winogradow, RZ Klekowski. Warszawa: Panstwowe wydawnictwo naukowe. 1988.
- Biocenosis shelf of Franz Josef Land and fauna of the adjacent waters / holes. Ed. AN Golikov. Leningrad: Nauka. 1977.
- Biological research in the Australian-New Zealand region / holes. Ed. LA Panomareva and NG Vinogradov. M.: Nauka. 1978.
- Biology shelf Kuril Islands / holes. Ed. OG Kusakin. M.: Nauka. 1978.
- Biology of the Central Arctic Basin / holes. Ed. ME Vinogradov and IA Melnikov. M.: Nauka. 1980.
- Benthos seamounts Marcus-Necker and adjacent areas of the Pacific / holes. Ed. AP Kuznetsov and AN Mironov. M.: ed. Institute of Oceanology. 1981.
- Paleontology, paleobiogeography and mobilism / Magadan publ. 1981.
- Biology great depths of the Pacific Ocean / holes. Ed. NG Vinogradov. // Proceedings of the 14th Pacific Science Congress in Khabarovsk (August 1979). Vladivostok: Far Eastern Scientific Center. 1981.
- Marine biogeography / holes. Ed. OG Kusakin. M.: Nauka. 1982.
- Structure, ways of formation and distribution of the benthic fauna of the ocean / holes. Ed. AP Kuznetsov and NG Vinogradov. M.: Nauka. 1984 (Proceedings of the Academy of Sciences of the EUT, Volume 119).
- Benthic fauna open-ocean rises (North Atlantic) / Editor. Ed. AP Kuznetsov and AN Mironov. M.: Nauka. 1985.
- Les brachiopods fossils et actuels: le point des connaissances sur 600 MA de l'histoire de la vie marine. Brest: L'Association Paleontologique Internationale. 1985.
- Power of marine invertebrates in vivo / holes. Ed. MN Sokolov. M.: ed. Institute of Oceanology. 1986.
- Life and the conditions of its existence in the Barents Sea benthic / holes. Ed. GG Matishov. Apatity: Kola branch of their publication. Kirov. 1986.
- Biodifferentsiatsiya sedimentary material in the seas and oceans / holes. Ed. AP Lisitsyn. Rostov-on-Don, ed. Rostov University. 1986.
- Biopic basis of the distribution of marine organisms / ed. PA Mosaic. M.: Nauka. 1986.
- Power of marine invertebrates and its role in the formation of communities / holes. Ed. AP Kuznetsov MN Sokolov. M.: ed. Institute of Oceanology. 1987.
- Deep-Sea Biology / eds MV Angel, M. Sibuet. Brest: IFREMER. 1990.
- Plankton and benthos submarine ridges Nazca and Sala-i-Gomez / Editor. Ed. AN Mironov and YA Rudyakov. M.: Nauka. 1990
- Novosibirsk shallow water ecosystems and fauna of the Laptev Sea and adjacent waters / holes. Ed. AN Golikov. L.: Science. 1990.
- Distribution and ecology of modern and fossil marine organisms / holes. red.V.S. Levin and GA Yevseyev. Vladivostok: Far Eastern Branch of the Academy of Sciences of the USSR. 1990.
- The most important biotic events in Earth's history. Tallinn: Estonian Academy of Sciences Geology Intitut. 1991.
- Power of marine invertebrates in different vertical and latitudinal zones / holes. Ed. AP Kuznetsov MN Sokolov. M.: ed. Institute of Oceanology. 1993.
- Deep sea benthic fauna in the southern part of the Atlantic Ocean / holes. Ed. NG Vinogradov. M.: Nauka. 1993.
- Theoretical Problems of paleontology and science. St. Petersburg: only. 1993.
- Underwater raising the western Indian Ocean / holes. Ed. AN Mironov. M.: Nauka. 1994.
- Ecosystems and fauna Chaushskoy lips and adjacent waters of the East Siberian Sea / holes. Ed. AN

- Golikov. St. Petersburg: ZIN. 1994.
- The Biogeography of the Oceans / eds AV Gebruk, EC Southward, PA Tyler // *Advances in Marine Biology*. Vol. 32. London: Academic Press. 1997.
- Paleontology in Russia: results and prospects. St. Petersburg: only. 2000.
- Red Data Book of the Russian Federation / ed. VI Danilov-, LN Mazin. AST Astrel. 2001.
- Hydrothermal systems biology / holes. Ed. AV Gebruk. M.: KMK Scientific Press. 2002.
- Biota Russian Sea of Japan. Brachiopods and phoronids. / Ed. VL Kasyanov and AV Hadrian. Vladivostok: Dal'nauka. 2005.
- Biogeography of Seamounts in the North Atlantic / eds AN Mironov, AV Gebruk, AJ Southward. Moscow: KMK Scientific Press. 2006.
- Illustrated keys to determine benthic invertebrates of the northern seas of Russia / Ed. Ed. BI Sirenko. St. Petersburg: ZIN. In press.

Responsible editing (with AP Kuznetsov), preparation and participation of the author laboratory thematic collections

- Adaptation of organisms to the deep lifestyle / holes. Ed. AP Kuznetsov and ON Zezina. M.: Nauka. 1989 (Proceedings of the Academy of Sciences of the EUT, Volume 123).
- Composition and distribution of benthic invertebrates in the seas of Russia and adjacent waters / holes. Ed. AP Kuznetsov and ON Zezina. M.: VNIRO. 1997.
- Benthos of the northern seas of Eurasia / holes. Ed. AP Kuznetsov and ON Zezina. M.: VNIRO. 1997.
- Benthos high-latitude areas / holes. Ed. AP Kuznetsov and ON Zezina. M.: VNIRO. 1998.
- Benthos seas of Russia and the North Atlantic / holes. Ed. AP Kuznetsov and ON Zezina. M.: VNIRO. 2000.
- Composition and structure of marine benthic / holes. Ed. AP Kuznetsov and ON Zezina. M.: Publisher VNIRO. 2001.
- Adaptation aspects of the formation of marine fauna. Collection of Scientific Papers / holes. Ed. AP Kuznetsov and ON Zezina. M.: VNIRO. 2002.

Publications before 1999 in the Proceedings of the Academy of Sciences, Journal of Oceanology, paleontological journal Zoological Journal, Bulletin of Moscow Society of Naturalists, yearbooks in Antarctica, the Arctic and Antarctica.

Publications in international journals until 1999:

- Deep-Sea Research (1975)
- Galathea Report (1981)
- Bulletain du Museum national d'histoire naturelle, Paris (1987)
- Progress in Oceanography (1990)
- Sarsia (1994)
- Advances in Marine Biology (1997).

Publication of articles and abstracts in 1999-2009.

- Zezina ON 1999. By the size and age characteristics of modern brachiopods northern seas of Russia // Adaptations of animals and plants to the conditions of the Arctic seas (at the level of organisms, populations, ecosystems). Abstracts of the International Seminar dedicated to the memory of Academician EM Kreps (Murmansk, 11-13 May 1999). Apatity Murmansk Marine Biological Institute, RAS. 1999, pp 69-70.
- Zezina ON 1999. Eutrophication at upwelling regions and its importance for the global biogeography of bottom fauna // PACON-99. Abstracts. Symposium June 23-26, 1999. "Humanity and the World Ocean: Interdependence at the Dawn of the New Millenium". Moscow: Russian Academy of Sciences. 1999. P. 211.
- Zezina ON 2000. Eutrophication at upwelling regions and its importance for the global biogeography of bottom fauna // PACON-99. Proceedings. Symposium (June 1999, Moscow). Printed in Honolulu: PACON-International. 2000. P. 299-305.
- Zezina ON 2000. On the ancient and modern brachiopods from the areas of underwater volcanic activity // Paleontology in Russia: results and prospects. Abstracts of the 46th session of the Paleontological Society. SPB: everything. 2000, pp 35-36.
- Zezina ON, AV Pahnevich 2000. Finding modern articulate brachiopods in the area of underwater volcanic activity of the Antarctic Peninsula // Dokl. 2000 Volume 370, № 3. S. 397-398.
- Zezina ON 2000. Domestic fees deepwater brachiopods in the Atlantic Ocean // In. Benthos seas of Russia

- and the North Atlantic. Collection of Scientific Papers, ed. AP Kuznetsova and O. Zezina. M.: VNIRO. 2000, pp 26-36.
- Grunt TA, Zezina ON 2000. On the latitudinal biological zonation in the Late Paleozoic seas // *Oceanology*. 2000. Volume 40, №2. S. 241-246.
- Zezina ON 2000. Gyres and streamlines in surface waters as the base for brachiopods' distribution in the World Ocean // Abstracts of the Millennium Brachiopod Congress (July, 2000). London: Natural History Museum. 2000. P. 98.
- Zezina ON 2000. What kind of brachiopods can live in the regions of underwater volcanic activity // *Ibidem*. P. 99.
- Zezina ON 2000. Brachiopoda. In Biodiversity of the Weddell Sea: macrobenthic species sampled during the expedition ANT XIII / 3 (EASIZ 1) with R / V "Polarstern" / J. Gutt et al., Eds // *Berichte zur Polarforschung*, N 372. Bremerhaven: Alfred-Wegener-Institut für Polar und Meeresforschung. 2000. S. 40-43.
- Zezina ON 2001. Brachiopods (Brachiopoda) // *The Red Book of the Russian Federation*. Pets. M.: AST-Astel. 2001, pp 47-50.
- Zezina ON 2001. New data on the finding of brachiopods in the areas of underwater volcanic activity // *Bulletin of Moscow Society of Naturalists*. Department of Geology. 2001. Volume 76, № 2. pp 58-60.
- Zezina ON 2001. On the ancient and modern brachiopods from the areas of underwater volcanic activity. Abstracts of the International Conference "Paleontology in the biological and geological studies", dedicated to the 100th anniversary of RF Hecker (PIN RAS (19-20 April 2001) // *Bulletin of Moscow Society of Naturalists*. Department of Geology. 2001. Volume 76, № 5, p. 79.
- MN Sokolov, AP Kuznetsov, Zezina ON 2001. Domestic deepwater benthos in the Mediterranean Sea (quantitative biocenotic and trophic characteristics) // In. *Composition and structure of marine benthic population*. Collection of scientific works / ed. AP Kuznetsova and O. Zezina. M.: VNIRO. 2001, pp 46-55.
- Zezina ON 2001. Some ecological and geographical characteristics of brachiopods living on underwater ridges and islands of the North Atlantic // *Ibid*. S. 58-62.
- Zezina ON 2001. articulate brachiopods off the coast of Vietnam as part of the zone on the continental slope sestonophages Asia // *Ibid*. S. 63-68.
- Zezina ON 2001. Global surface-water circulations and the main features of marine benthic biogeography. In *Brachiopods Past and Present* / eds H. Brunton et al. London: Taylor and Francis. 2001. P.102-107. (Systematics Association Special Volumes. Vol. 63).
- Zezina ON 2001. Modern brachiopods - markers natural deepwater biofilter seas and oceans // Abstracts of the 8th Congress of the Hydrobiological Society (Svetlogorsk Kaliningrad Region 16-23 September 2001). Volume 1. 2001, pp 163-164.
- Zezina ON 2001. Phylum Brachiopoda. In *List of species of free-living invertebrates of Eurasian Arctic Seas and adjacent deep waters* / ed. BI Sirenko.
- St. Petersburg: Nauka. 2001. S.114-115. (Research fauna of the seas, Volume 51 (59).
- Zezina ON 2002. On the high-latitude adaptation of modern brachiopods (as a result of domestic processing fees expeditions to Antarctica) // *Adaptive aspects of the formation of marine fauna*. Collection of Scientific Papers / holes. Ed. AP Kuznetsov and ON Zezina. Moscow: Publishing House of VNIRO. S. 76-80.
- Zezina ON 2002. The selection and adaptation of modern brachiopods in the abyssal zone, talassobatiali in underwater caves and near hydrothermal fields // *Ibid*. S. 70-75.
- Zezina ON, Neumann AA 2002. The natural biological filters at the bottom of the oceans and seas as a system of self-purification of water bodies // *Ibid*. S. 137-141.
- Zezina ON 2002. On subsequent publications MN Sokolova (on the 70th anniversary of his birth) // *Ibid*. S. 153-155.
- Zezina ON 2002. Introduction to the book "Adaptive aspects of the formation of marine fauna" M Univ VNIRO. S. 5.
- Zezina ON 2002. New data on the finding of brachiopods in the areas of underwater volcanic activity // *Bull. Moscow Society of Naturalists*. T. 76, №2. S. 58-60.
- Zezina ON 2002. Hydrothermal fauna: composition, biology, adaptation. *Brachiopods* // *Biology hydrothermal systems* (Ed. Ed. AV Gebruk). Moscow: KMK Scientific Press. P. 226-227.
- Zezina ON and Neumann AA 2002. The natural biological filters at the bottom of the oceans and seas as a system of self-purification of water bodies // Abstracts of the International Conference "New technologies in the protection of biodiversity in aquatic ecosystems" (Moscow State University, May

- 2002). M: MAX Press. S. 31.
- ZeZina ON 2002. On the ecological and morphological features of brachiopods, living on the outskirts of habitats in underwater caves, on the tops of seamounts and hydrothermal fields near // Abstracts of the 48th session of the Paleontological Society (St. Petersburg, November 2002). S. 55-57.
- Neumann AA, ZeZina ON 2003. bionomic structure of macrobenthos: stability and variability // Proceedings of the International Workshop "The role of climate and fishing in changing the structure of zoobenthos shelf (Murmansk, March 2003) Murmansk Murmansk Marine Biological Institute, Kola Scientific Center, Russian Academy of Sciences. S. 57-59.
- ZeZina ON 2003. The ways of the ocean selfcleaning // Abstracts of the 7-th International Congress of the History of Oceanography (Kaliningrad, September 2003). Kaliningrad University Press. P. 20-24.
- ZeZina ON 2003. On the natural and anthropogenic impacts on bionomic structure of macrozoobenthos in the seas and oceans // Abstracts of the 15th International Scientific School for Marine Geology. M.: Institute of Oceanology. S. 321-322.
- ZeZina ON 2003. On the ecological and morphological and evolutionary features of brachiopods living in marginal and extreme conditions // Paleontological Journal. Vol. 3. P. 42-48. English translation in the Paleontological Journal. V. 37, N 3. P. 263-269.
- ZeZina ON, Gebruk AV 2003. Marina Nikolaevna Sokolova August 5, 1927 - March 5, 2002 // Deep-Sea Newsletters. N 32. P. 26-27.
- ZeZina ON 2004. Type Brachiopoda // In: Fauna and ecosystems of the Laptev Sea and adjacent deep waters of the Arctic basin, part two. Ans. Ed. BI Sirenko. St. Petersburg: Nauka. (Research fauna of the seas. Volume 54). S. 150-151.
- Malakhov VV, ZeZina ON, Neumann AA 2004. Knight of Science - the 75th anniversary of Professor Konstantin V. Beklemisheva // Zoological Journal. Volume 83, № 10. S. 1290-1293.
- ZeZina ON, Neumann AA 2004. bionomic marine benthos structure and its role in biodiversity conservation // In. Environmental safety and environmental management. Ans. Ed. SV Nikolaev. Rostov-on-Don, South-Russian Expocentre. S. 52-59.
- Neumann AA, ZeZina ON 2004. The stability of the structure and variability of bionomic macrozoobenthos seas and oceans // Study of zoobenthos shelf, information technology ecosystem studies. Ans. Ed. GG Matishov. Apatity: Kola Scientific Centre, Russian Academy of Sciences. S. 31-42.
- ZeZina ON 2004. As the ocean protects itself from contamination, and if people can help it? // Historical Oceanography, Volume 2. Ed. Ed. VL Stryuk. The publication of the Kaliningrad State University. S. 112-118.
- ZeZina ON 2005. Type Brachiopoda // Biota Russian Sea of Japan. Volume 3. Ed. Ed. VL Kasyanov and AV Hadrian. Vladivostok: Dal'nauka. S. 5-25. English translation of the entire text in the same volume on p. 26-49.
- ZeZina ON 2005. On the vertical and latitudinal zonation circumcontinental bottom fauna in the bathyal ocean // Oceanology. Volume 45, No. 3, pp 425-430. English translation on p. 399-404.
- ZeZina ON 2005. Types of habitats of benthic invertebrates // Atlas of the Oceans. Antarctica. St. Petersburg: Russian Navy. Map 258 D, the text on p.251.
- ZeZina ON 2005. On the systematic position of some types of modern brachiopods from the Norfolk Ridge (Western Pacific) // Invertebrate Zoology, Vol. 2, N 1. P. 29-33.
- ZeZina ON 2005. On the anomalies in the latitudinal zonation of the benthic fauna of the West Antarctic // Arctic and Antarctic. Vol. 4. S.74-79.
- ZeZina ON 2006. On the age of modern taxa of marine fauna in extreme conditions and in isolation // Oceanology. Volume 46, № 3. S. 426-431. English translation on p. 396-400.
- ZeZina ON 2006. Deep-sea brachiopods in Russian collections from the Atlantic Ocean // Biogeography of the North Atlantic Seamounts. AN Mironov, AV Gebruk, AJ Southword (eds). Moscow: KMK Scientific Press. P. 67-75.
- ZeZina ON 2006. Data Base of Higher Taxa of Animals of the World. Brachiopoda (www.zin.ru/BioDiv/).
- ZeZina ON 2006. Modern brachiopods underwater volcanoes at high latitudes of the Northern and Southern Hemispheres // Abstracts. International scientific conference "Problems of Biological Oceanography of the 21st century" (Sevastopol, IBSS NASU, September 2006). S. 47.
- ZeZina ON 2007. Distribution of animal relic taxa in Recent oceans as natural traces of life history on the Earth // P. 28. International Symposium "Origin and Evolution of Biosphere and Photonics of Nucleic Acids (Terskol, Kabardino-Balkaria, Northern Caucasus, Russia, 6-10 August 2007). M: Geochemistry. 2007. P. 28.
- ZeZina ON 2007. Relics of the Tethys Sea fauna in the Recent Oceans // Abstracts of the II International

- Conference "Biosphere Origin and Evolution" (Greece, Loutraki October 28 - November 2, 2007). Novosibirsk. 2007. P. 55.
- Zeina ON 2008. The vertical biological zonation in bathyal continental slopes in-dependence on the conditions of sedimentation // *Oceanology*. 2008. Volume 48. №6. S. 895-899. English translation Pleiades Publishing Inc p. 832-836.
- Zeina ON 2008. What do the findings of relict taxa of benthic invertebrates in modern oceans // PALEOSTRAT - 2008. Annual meeting of Palaeontology Society of Naturalists and the Moscow branch of the Paleontological Society (Moscow, 28-29 January 2008). Abstracts / ed. AS Alexeev.M.: Geol. Faculty of Moscow State University. 2008. P. 26.
- Zeina ON 2008. Modern brachiopods on an underwater volcano in the Bering Piip lore // *Arctic and Antarctic. Scientific Council for the Exploration of the Arctic and Antarctic RAS / holes*. Ed. VM Kotlyakov. M.: Nauka.2008. Vol. 6 (40). C.123-129.
- Zeina ON 2008. Holocene fauna as a result of the formation of the Cenozoic global thermohaline circulation in the seas and oceans (for example, brachiopods) // *Proceedings of the Symposium "The Origin and Evolution of the Biosphere."* Program 18 of the Presidium of Russian Academy of Sciences, Sub-1 (Moscow, Geochemistry them. Vernadsky, 11-12 November 2008). M.: Geochemistry. 2008. P. 30-31.
- Zeina ON 2008. Biogeography of the Recent Brachiopods // *Paleontological Journal*. 2008. V. 42. N 8 (Supplement 2). Pleiades Publishing, Ltd. 2008. P. 830-858.
- Zeina ON 2008. Notes on the North Atlantic brachiopods // *Marine Biology Research*. N 4. P. 157-159.
- Lee DE, Gregory MR, Luter C., Zeina ON, Robinson JH, Christie DM 2008. Melvicalathis, a new brachiopod genus (Terebratulida: Chlidonophoridae) from deep sea volcanic substrates, and the biogeographic significance of the mid-ocean ridge system // *Zootaxa* N 1866. Pp. 135-150.
- Zeina ON 2008. Relics and "living fossils" as witnesses of history of formation of the modern fauna of the ocean // *Problems of the origin and evolution of the biosphere / holes*. Ed.EM Galimov. M.: Book House LIBROKOM. 2008. pp 479-484.
- Zeina ON 2009. Relicts of the Tethyan fauna in the Recent oceans // *Paleontological Journal*. 2009. Vol.43. N 8 (Supplement 2). Pleiades Publishing Ltd. 2009. P. 877-880.
- Zeina ON, Turpaeva EP, Paradise AK 2009. Ecological and morphological and evolutionary characteristics of benthic invertebrates in the Arctic basin as an example of brachiopods and piknogonid // *Bulletin of the Arkhangelsk State Technical University. Series "Applied geo-ecology"*. Arkhangelsk: ASTU. Issue 79. S. 70-80.
- Zeina ON, Paradise AK, Turpaeva EP 2009. The natural universe of benthic invertebrates in the Arctic basin: ecological and evolutionary aspects and iorfologicheskyy // *Abstracts of the 10th Congress of the Hydrobiological Society at RAS / holes*. Ed. AFUlama and AV Hadrian. Vladivostok: Dal'nauka. 2009. pp 153-154.
- Paradise AK, Turpaeva EP, Zeina ON 2009. Geomorfologiyaeskie and hydrological preconditions and obstacles in the resettlement of benthic invertebrates in the Arctic basin (for example piknogonid and brachiopods) // *Geology of the oceans and seas Abstracts of the 18th International Workshop on Marine Geology (Moscow, Institute of Oceanology, 16-20 November 2009) / Editor*. Ed. APLisitsyn. M.: GEOS. 2009. pp 267-270.
- Zeina ON 2009. Formation of the Holocene fauna as a result of ocean rearrangements (for example, brachiopods) // *Abstracts of the 55th session of the Paleontological Society (St. Petersburg, April 6-10, 2009)*. St. Petersburg: only. 2009. P. 56.