

CURRICULUM VITAE

FEDONKIN MIKHAIL ALEKSANDROVICH

Born: June 19, 1946, Orekhovo-Zuevo, Moscow Region, Russia

Citizenship: Russia

Current position:

Head of Laboratory of the Precambrian organisms, Paleontological Institute, Russian Academy of Sciences, Profsoyuznaya ul. 123, Moscow 117868 Russia.

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Education:

- M.Sc. Geology, Moscow State University, 1969. Thesis: Biostratigraphy and paleontology of the Late Precambrian deposits of Kharaulakh Mountains, Northern Yakutia (Sakha).

- Ph.D. Stratigraphy/Paleontology, Geological Institute, USSR Academy of Sciences, Moscow, 1978. Dissertation: Precambrian fauna and trace fossils from the Russian Platform north.

- D.Sc. Paleobiology, Paleontological Institute, USSR Academy of Sciences, Moscow, 1985. Dissertation: Non-skeletal fauna of the Vendian and its place in the evolution of metazoans.

Titles:

Corresponding Member, Russian Academy of Sciences, elected in May 1997.

Research Associate at Paleontology, University of California, Berkeley (1996-recent).

Honorary Research Fellow, School of Geosciences, Monash University, Melbourne (2003-2004)

Awards:

1997 C. D. Walcott Medal and Award, US National Academy of Sciences

2000 Peter The Great Medal for the merits in the revival of science and economics in Russia, International Academy of Science on Nature and Society.

Languages:

Fluent: Russian, English

Read: Spanish, French, Slavonic languages

Professional employment:

- Junior Scientific Researcher, Geological Institute, USSR Academy of Sciences, Moscow, 1971-1978.

- Senior Scientific Researcher, Paleontological Institute, USSR Academy of Sciences, Moscow, 1978-1985.

- Leading Scientific Researcher, Paleontological Institute, USSR Academy of Sciences, Moscow, 1985-1992.

- Head of Laboratory, Paleontological Institute, Russian Academy of Sciences, Moscow, 1992-recent.

Other professional experience:

- Lecturer, Department of Geology, Moscow State University, 1988-recent.

- Lecturer, Department of Ecology, Russian Orthodox University, Moscow, 1996-1999.

- Chairman, Committee on Paleoichnology, Russian Academy of Sciences, 1980-recent.

- Secretary, Committee on Paleontology of Precambrian, Russian Academy of Sciences, 1986-recent.
- Member of the Proterozoic Paleobiology Research Group, University of California, Los Angeles, 1977-1978.
- Member of Interdepartmental Stratigraphic Committee, Russia, 1992-recent.
- Member of Editorial Board, "Priroda", Magazine of Russian Academy of Sciences, 1990-recent.
- Member of Editorial Board, "Stratigraphy. Geological Correlation", Magazine of Russian Academy of Sciences, 2000-recent.
- Expert of the Earth Science Branch of the Russian Fund for Basic Research, 1992-2000.
- Member of the Expert Council of the Earth Science Branch of the Russian Fund for Basic Research, 2000-recent.
- Member of the Specialized Scientific Council (Stratigraphy, Paleontology), Geological Institute, Russian Academy of Science, 1991-recent.
- Member of the Specialized Scientific Council (Stratigraphy, Paleontology), Paleontological Institute, Russian Academy of Sciences 1984-recent.
- Associate of the Committee on Space Research (COSPAR), Scientific Commissions A and F, 1994 - recent.

IGCP-IUGS-UNESCO related activity

- Secretary, National Working Group, Project No. 29 "Precambrian-Cambrian Boundary", IGCP, 1979-1983.
- Executive Secretary, Section Paleontology, 27th International Geological Congress, Moscow, 1984.
- Member of the Russian Committee for International Geological Correlation Program, 1989-recent.
- Secretary, National Working Group, Project No. 216 "Global Biological Events in Earth History", IGCP, 1986-1992.
- Co-leader, Project No. 320 "Neoproterozoic Events and Resources", IGCP, 1991-1996.
- Chairman, National Working Group, Project No. 320 "Neoproterozoic Events and Resources", IGCP, 1991-1996.
- Member of the Scientific Board, International Geological Correlation Program, UNESCO, 1996-1999.
- Voting member, Subcommission on the Terminal Proterozoic System, International Commission on Stratigraphy.
- Co-leader, Project No. 493 "The Rise and Fall of the Vendian Biota", IGCP, 2003-2007.

Field work in the former USSR:

1967 - Kamchatka Peninsula and Chukotka, Northeast Russia, geological mapping of the Mesozoic deposits.

1968 - Northern Yakutia, Kharaulakh Mountains, Lena River Valley, stratigraphical and paleontological study of the Late Proterozoic deposits.

1971-1975, 1996 - Southern Ural, stratigraphy, isotope chronology and paleontology of the Riphean (Late Proterozoic) rocks.

1976 - Siberian Platform, Aldan River valley, paleoichnology of the Precambrian-Cambrian transition.

1979-1980, 1990 - Ukraine, Dniester River Basin, paleontology and stratigraphy of the Vendian and Lower Cambrian deposits.

1983, 1985, 2000 - North of the Siberian Platform, Oleniok River basin, paleontology and stratigraphy of the Vendian and Lower Cambrian deposits.

1975-2003 – annual expeditions to the north of the Russian Platform, White Sea region, stratigraphy and paleontology of the Vendian deposits, taphonomy and paleoecology of the Ediacara-type fauna.

Field experience out of Russia:

- 1976, 1979 - Poland, Holy Cross Mountains and other regions (borehole core material), Precambrian and Lower Cambrian paleoichnology.
- 1979 - Canada, Avalon Peninsula (Newfoundland) and Mackenzie Mountains (Northwest Territories), stratigraphy and paleontology of the Late Proterozoic and Lower Cambrian deposits.
- 1981-1982 - Spain, northern and central regions, paleoichnology of the Late Precambrian and Cambrian deposits.
- 1987 - Australia, central and southern regions, paleontology of the Late Precambrian and Early Cambrian.
- 1988 - USA, Nevada and California (White Inyo Mountains), paleoichnology of the Precambrian-Cambrian transition.
- 1990 - USA (Upper Mississippi Valley, Wisconsin and New York states) and Canada (Ontario), paleoichnology and paleoecology of the Cambrian deposits.
- 1992 - USA, Montana (National Glacial Park), paleontology of the Middle Proterozoic deposits.
- 1994 - Norway, Finnmark, stratigraphy and paleontology of the Late Proterozoic.
- 1995 - Scotland, stratigraphy and paleontology of the Late Proterozoic.
- 1999 - USA, Nevada and California, Neoproterozoic-Cambrian transition.
- 2000 – Western Australia, paleontology and stratigraphy of the Middle Proterozoic Manganese Subgroup, Bangemall Basin.
- 2001 – Canada, Newfoundland, Avalon Peninsula: stratigraphy and paleontology of the Late Proterozoic; USA, Montana (National Glacial Park), paleontology of the Middle Proterozoic deposits.
- 2003 – Flinders Ranges, South Australia, Central Australia, Namibia, stratigraphy and paleontology of the Late Proterozoic.

Societies membership:

- Paleontological Society of Russia
 Moscow Society of Naturalists
 Society for Sedimentary Geology (SEMP), USA
 Committee on Space Research (COSPAR), 1994 - recent.
 National Geographic Society (USA)
 Sigma Xi, The Scientific Research Society

Honors:

- Visiting Research Scientist, University of Madrid, University of Oviedo, Spain (3 months, 1981-1982).
- Visiting Research Scientist, University of Sydney, University of Armidail, University of Adelaide, Australia, (2 months, 1987).
- Resident Senior Fellow, Center for the Study of the Evolution and the Origin of Life, University of California, Los Angeles, USA (5 months, 1988).
- Visiting Research Scientist, Department of Paleobiology, National Museum of Natural History, Smithsonian Institution, Washington, USA (one month visits in 1990 and 1992).
- Visiting Research Scientist, Field Museum of Natural History, Chicago, USA (one month, 1990).
- Visiting Research Scientist, University of Adelaide, Australia (September-October, 1994).
- Miller Research Professor, Department of Integrative Biology, University of California, Berkeley, USA (November-December 1994).
- Visiting Research Scientist, Museum of Paleontology, University of California, Berkeley (3 months, December 1994-March 1995).
- Kapitza Fellowships, Department of Earth Sciences, University of Liverpool (3 months, April-June, 1995).

- Smithsonian Institution, Short Term Visiting Scientist (November-December 1996).
- Visiting Professor, University of Florence, Department of Animal and Cell biology (February 1998).
- Visiting Research Scientist, Institute for Forestry and Natural Research, Wageningen, The Netherlands (March-June 1998).
- Visiting Research Scientist, Museum of Paleontology, University of California, Berkeley (3 months, February-May 1999).
- Invited Lecturer at the UNESCO International School of Science for Peace, Autumn School on "Global Climate Changes and Impact on Biosphere", Milan, Italy, October 2-13, 2000.
- Inaugural Annual Distinguished Lecturer in Science, Monash Science Centre, Monash University, Melbourne, August-September 2002 (1 month).
- Visiting Professor, Kyoto University, December 2002- March 2003
- Honorary Research Fellow, School of Geosciences, Monash University, Melbourne, September 2003 – January 2004.

Fossil species named after Fedonkin:

Redkinia fedonkini Asseeva

Archaeoaspinus fedonkini (Ivantsov)

Recent experience: (invited speaker to the international symposia during past 12 years):

- Early Life on Earth, Nobel Symposium 84, Karlskoga, Norway, 1992.
- Phanerozoic Global Bio-events and Event Stratigraphy, Final Conference on the IGCP Project 216, Goettingen, Germany, 1992.
- Systematic Biology as an Historical Science, Milan, Italy, 1992.
- Earth Early Biosphere, Committee on Space Research (COSPAR), Hamburg, Germany, 1994.
- Major Radiations in Earth's History, Milan, Italy, 1994.
- New Perspectives of the History of Life, San Francisco, USA, 1994.
- 57 Congress of the Italian Zoological Union, San Benedetto del Tronto, Italy, 1996.
- Biomineralization: its role in the Cambrian diversification of life, Fondation des Treilles, France, 1997.
- Bridging Two Worlds: Archean and Proterozoic, Los Angeles, California, 1999.
- Gordon Research Conference on the Origin of Life, Ventura, California, 1999.
- General Symposium 2-6 "Contributions of Paleontology to Biospheric Evolution and Temporal Subdivision of the Precambrian", 31st International Geological Congress, Rio de Janeiro, Brazil, 2000.
- Canadian Association of Geologists, Newfoundland, 2001
- North American Paleontological Convention, Berkeley, California, USA, 2001.
- The Origin and Early Evolution of Metazoa, Kyoto, Japan, 2001
- III International Colloquium " Vendian-Cambrian of W-Gondwana, Cape Town, 2003.
- International Symposium "Predictability of the Evolution and Variation of the Multi-scale Earth System", University of Tokyo, 21st Century Center of Excellence, January 8 and 9, 2004.

Teaching experience:

Lecturing:

Moscow State University, Geological Faculty, Courses of lectures: "Modern Problems of Paleontology: Paleoichnology. Paleontology of the Precambrian" (1988-recent) and "Evolution of Biosphere" (1996 -recent).

Russian Orthodox University, Ecological Faculty, Course of lectures: "The study of Biosphere"(1996-1998).

University of Florence, Department of Animal and Cell Biology, Course of lectures: "Evolution of Biosphere" (1998)

Tartu University, Geological Faculty, Estonia. Course of lectures: "Precambrian Biosphere". 1991.

UNESCO International School of Science for Peace, Autumn School on "Global Climate Changes and Impact on Biosphere", Bicocco University, Milan. Lectures on the "Biodiversity and Biosphere in the Archeozoic Era through the Cambrian Period", October 2-13, 2000.

Seminars on the Precambrian paleobiology and geobiology, paleoichnology and biostratigraphy for the students and scientific staff: University of Warsaw, Poland; University of Madrid, University of Oviedo, Spain; Bureau of Mineral Resources (Canberra), University of Sydney, University of Armidail, University of Adelaide, University of Perth, Monash University (Melbourne), Australia; University of Camerino, Rome University, University of Padova, University of Florence, Italy; Smithsonian Institution, Washington, Field Museum of Natural History, Chicago, California Institute of Technology (Pasadena), Harvard University, Boston, University of Chicago, Kent State University, some universities of Ohio, University of California (Davis, Los Angeles, Berkeley), USA; Kyoto University, The University of Tokyo, Japan.

Field teaching practice:

Precambrian stratigraphy, sedimentology, taphonomy and paleoecology with the graduate and postgraduate Russian and foreign (USA, Sweden) students. 1988-recent.

University Research Expedition Program (University of California), leader of the expedition to the Vendian of the White Sea Coast (22 professionals, students and amateurs). 1993.

Publications:

Total number of professional scientific publications is over 140, including 3 single authored books and 5 books written in co-authorship. Not included in this list there are editorships, texts and other materials for the museum paleontological expositions and paleontological exhibitions, academic research programs, grant proposals, annual research reports, science consultant for several documentary films, numerous interview and story lines for the newspapers, radio and TV science programs in Russia and abroad.

Books:

1981. White Sea Biota of the Vendian (Precambrian non-skeletal fauna of the Russian Platform north). Transactions of the Geological Institute, vol. 342. Moscow, Nauka, p. 1-100. (In Russian).

1983. Organic World of the Vendian. Moscow, VINITI, p. 1-128. (In Russian).

1987. Non-skeletal Fauna and Its Place in the Evolution of Metazoans. Transactions of the Paleontological Institute, vol. 226. Moscow, Nauka, p. 1-176. (In Russian).

Monographs in a co-authorship:

1983. The Vendian of the Ukraine. Kiev, Naukova Dumka, p. 1-162. (In Russian).

1983. Upper Precambrian and Cambrian Paleontology of the East-European Platform. Publishing House Wydawnictwa Geologiczne, Warsaw, p. 1-158 (translated from original Russian edition, 1979).

1990. The Vendian System. Vol. 1. Paleontology. 383 pp. Vol. 2. Regional Geology. 273 pp. Springer-Verlag, Berlin, Heidelberg (translated from original Russian edition, 1985).

1992. Proterozoic Biosphere. A Multidisciplinary Study. J.W. Schopf and C. Klein, eds. Cambridge University Press, New York, 1348 pp.

1993. Yochelson E.L. and Fedonkin M.A. Paleobiology of Climactichnites, an Enigmatic Late Cambrian Fossil. Smithsonian Contribution to Paleobiology, N 74, Smithsonian Institution Press, Washington D.C., p. 1-74.

Full list of the scientific publications:

1. Krylov I.N., Shapovalova I.G., Kolosov P.N. and Fedonkin M.A. 1971. Riphean deposits of the Lena River lowstream. *Sovetskaya Geologia*, N 7, p. 85-95. (In Russian).
2. Fedonkin M.A. 1974. On new finds of oncolites in Yamantau Series of Southern Urals. In: Keller B.M. and Rozanov A.Yu., editors. *Biostratigraphy and Paleontology of the Lower Cambrian of Europe and Northern Asia*. Moscow, Nauka, p. 249-252. (In Russian).
3. Radchenko V.V. and Fedonkin M.A. 1974. Lower Riphean deposits of the southern part of Bashkirian Anticlinorium. *Izvestiya Akademii Nauk SSSR, ser. geol.*, N 11, p. 117-122. (In Russian).
4. Fedonkin M.A. 1976. Traces of the multicellular animals from Valdai Series. *Izvestiya Akademii Nauk SSSR, ser. geol.*, N 4, p. 128-132. (In Russian).
5. Fedonkin M.A. 1976. Paleoichnology of the Precambrian and Early Cambrian. In: Sokolov B.S. (editor). *Paleontology of the Precambrian and Early Cambrian. Second All-Union Symposium. Abstracts*. Novosibirsk, p. 23-26. (In Russian).
6. Fedonkin M.A. 1976. Traces of life activity of invertebrates from Valdai Series. In: Sokolov B.S. (editor). *Paleontology of the Precambrian and Early Cambrian. Second All-Union Symposium. Abstracts*. Novosibirsk, p. 127-130. (In Russian).
7. Keller B.M. and Fedonkin M.A. 1976. New finds of the fossils in Valdai Series of the Precambrian along the Syuz'ma River. *Izvestiya Akademii Nauk SSSR, ser. geol.*, N 3, p. 38-44. (In Russian).
8. Keller B.M. and Fedonkin M.A. 1977. New organic fossil finds in the Precambrian Valdai Series along the Syuz'ma River. *Internat. Geol. Rev.*, 19(8), p. 924-930. (Translation of the previous paper).
9. Fedonkin M.A. 1977. Precambrian-Cambrian ichnocoenoses of East-European platform. In: Crimes T.P. and Harper J.C. (editors). *Trace Fossils 2: Geological Journal Spec. Issue 9*. See House Press, Liverpool, p. 183-194.
10. Fedonkin M.A. 1978. Oldest trace fossils and the ways of behavioral evolution of mud eaters. *Paleontologicheskii Zhurnal*, N 2, p. 106-112. (In Russian).
11. Fedonkin M.A. 1978. New locality of non-skeletal Metazoa in the Vendian of Zimmii Shore. *Doklady Akademii Nauk SSSR*, vol 239, N 6, p. 1423-1426. (In Russian).
12. Fedonkin M.A. 1979. Paleoichnology of the Precambrian and Early Cambrian. In: Sokolov B.S. (editor). *Paleontology of the Precambrian and Early Cambrian*. Leningrad, Nauka, p. 183-192. (In Russian).
13. Palij V.M., Posti E., and Fedonkin M.A. 1979. Soft-bodied Metazoa and trace fossils of the Vendian and Lower Cambrian. In: Keller B.M. and Rozanov A.Yu., (editors)

- Paleontology of Upper Precambrian and Cambrian deposits of East-European Platform. Moscow, Nauka, p. 49-82. (In Russian).
14. Fedonkin M.A. 1980. Fossil traces of the Precambrian Metazoa. *Izvestiya Akademii Nauk SSSR, ser. geol.*, N 1, p. 39-46. (In Russian).
 15. Fedonkin M.A. 1980. New representatives of the Precambrian coelenterates on the north of Russian Platform. *Paleontologicheskii Zhurnal*, N 2, p. 7-15. (In Russian).
 16. Fedonkin M.A. 1980. Early stages of evolution of Metazoa on the basis of the paleoichnological data. *Zhurnal Obchei Biologii*, N 2, c. 226-233. (In Russian, abstract in English).
 17. Fedonkin M.A. 1980. Discovery of new fauna of the Precambrian invertebrates in Arkhangel'sk region. In: Moscow Society of Naturalists. Section Paleontology. Materials of the scientific meetings, 1977, 1978. Moscow, Nauka, p. 77. (In Russian).
 18. Fedonkin M.A. 1980. Vendian fauna of the Russian Platform north. In: 26th International Geological Congress. Section Paleontology and Stratigraphy. Moscow, Nauka, p. 21-29. (In Russian, abstract in English).
 19. Fedonkin M.A. 1981. White Sea Biota of the Vendian (Precambrian non-skeletal fauna of the Russian Platform north). *Transactions of the Geological Institute*, vol. 342. Moscow, Nauka, p. 1-100. (In Russian).
 20. Fedonkin M.A. 1981. Soviet-Polish Project "Precambrian-Cambrian Boundary". *Priroda*, N 2, p. 112-113. (In Russian).
 21. Fedonkin M.A. 1981. Largest locality of the Precambrian fauna. *Priroda*, N 5, p. 94-102. (In Russian).
 22. Fedonkin M.A. 1981. Paleoichnology of the Precambrian-Cambrian transition. In: Taylor M.E. (editor), Short papers for the Second International Symposium on the Cambrian System. Open-File Report 81-743, p. 89-90.
 23. Fedonkin M.A. 1981. Precambrian fauna of the Russian Platform. In: Taylor M.E. (editor), Short papers for the Second International Symposium on the Cambrian System. Open-File Report 81-743, p. 138-139.
 24. Fedonkin M.A. 1982. New generic name for the Precambrian coelenterates. *Paleontologicheskii Zhurnal*, N 2, p. 137. (In Russian).
 25. Rozanov A.Yu., Fedonkin M.A. and Khomentovski V.V. 1982. Second International Symposium on the Cambrian System. *Paleontologicheskii Zhurnal*, N 3, p. 138-139. (In Russian).
 26. Fedonkin M.A. 1982. Precambrian non-skeletal fauna and the earliest stages of metazoan evolution. Third North American Paleontological Convention, Abstracts of papers. *Journal of Paleontology*, v. 56, N 2, Suppl., p. 9.
 27. Rozanov A.Yu. and Fedonkin M.A. 1982. Skeletal growth of aquatic organisms: biological record of environmental change. A review. *Journal of Paleontology*, v. 56, N 5, p. 1313-1314.

28. Fedonkin M.A. 1982. Precambrian soft-bodied fauna and the earliest radiation of invertebrates. Third North American Paleontological Convention, Proceedings, v. 1, p. 165-167.
29. Fedonkin M.A. 1983. Promorphology of the Vendian Radialia as a key to understanding the early evolution of Coelenterata. Fourth International Symposium on Fossil Cnidaria. Abstracts. August 7-12, 1983, Washington, D.C., p. 6.
30. Fedonkin M.A. 1983. Ecology of the Precambrian Metazoa of the White Sea biota. In: Nevevskaya L.A. (editor), The Problems of Ecology of Fauna and Flora of ancient basins. Transactions of the Paleontological Institute, vol. 194, Moscow, Nauka, p. 25-33. (In Russian).
31. Fedonkin M.A. 1983. Organic World of the Vendian. Transactions of the Institute of scientific and technical information. Itogi nauki i tehniki: Stratigraphy, Paleontology, v. 12. Moscow, VINITI, p. 1-128. (In Russian).
32. Fedonkin M.A., Linan E., and Perejon A. 1983. Ichnofossiles de las precambriocambrias de la Sierra de Cordoba, Espana. Bol. R. Soc. Espanola Hist. Nat. (Geol.), 81 (1-2), p. 125-138.
33. Sokolov B.S. and Fedonkin M.A. 1983. One hundred million years more... Science in the USSR, N 5, p. 10-19.
34. Velikanov V.A., Aseeva E.A. and Fedonkin M.A. 1983. The Vendian of the Ukraine. Kiev, Naukova Dumka, p. 1-162. (In Russian).
35. Palij V.M., Posti E. and Fedonkin M.A. 1983. Soft-bodied Metazoa and animal traces in the Vendian and early Cambrian. In: A. Urbanek and A. Rozanov, editors. Upper Precambrian and Cambrian Paleontology of the East-European Platform. Warszawa, Wydawnictwa Geologiczne, p. 56-94. (Translation with some modification of the original paper published in 1979).
36. Sokolov B.S. and Fedonkin M.A. 1984. Organic world of the Vendian Period. In: 27th International Geological Congress, Abstracts, vol. 1., Sections 01-03, Moscow, Nauka, p. 310-311. (In Russian).
37. Sokolov B.S. and Fedonkin M.A. 1984. Organic world of the Vendian Period. In: 27th International Geological Congress, Section C.02. Paleontology. Moscow, Nauka, p. 3-8. (In Russian).
38. Fedonkin M.A. 1984. Architectonics of the Vendian coelenterates. In: 27th International Geological Congress, Abstracts, vol. 1., Sections 01-03, Moscow, Nauka, p. 256-257. (In Russian).
39. Fedonkin M.A. 1984. Promorphology of the Vendian Radialia. In: Stratigraphy and Paleontology of the earliest Phanerozoic. Moscow, Nauka, p. 30-58. (In Russian).
40. Sokolov B.S. and Fedonkin M.A. 1984. The Vendian as the Terminal System of the Precambrian. Episodes, v. 7, N 1, p. 12-19.

41. Gibson G.G., Teeter S.A. and Fedonkin M.A. 1984. Ediacaran fossils from the Carolina slate belt, Stanley County, North Carolina. *Geology*, vol. 12, N 7, p. 387-390.
42. Rozanov A.Yu. and Fedonkin M.A. 1985. Work of Section Paleontology during 27th International Geological Congress. In: Information materials on the activity of the Scientific Council on the problem "Ways and regularities of historical development of animal and plant organisms" in 1984. Paleontological Institute, USSR Academy of Sciences, Moscow, 43-52. (In Russian).
43. Fedonkin M.A. 1985. Promorphology of the Vendian Bilateria and the problem of the origin of metamerism in Articulata. In: Problematics of the Late Precambrian and Phanerozoic. Moscow, Nauka, p. 79-92. (In Russian).
44. Fedonkin M.A. 1985. Precambrian metazoans: the problems of preservation, systematics and evolution. *Philosophical Transactions of the Royal Society*, London, B311, p. 27-45.
45. Fedonkin M.A. 1985. Non-skeletal fauna of the Vendian: promorphological analysis. In: Sokolov, B.S. and Iwanowski, A.B., editors. *The Vendian System*. Vol. 1. Paleontology. Moscow, Nauka, p. 10-69. (In Russian).
46. Fedonkin, M.A., 1985. Systematic description of the Vendian Metazoa. In: Sokolov, B.S. and Iwanowski, A.B., eds., *The Vendian System*. Vol. 1. Paleontology. Moscow, Nauka, p. 70-106. (In Russian).
47. Fedonkin, M.A., 1985. Paleoichnology of Vendian Metazoa. In: Sokolov, B.S. and Iwanowski, A.B., editors. *The Vendian System*. Vol. 1. Paleontology. Moscow, Nauka, p. 112-116. (In Russian).
48. Fedonkin M.A. 1986. Precambrian problematic animals: their body plan and phylogeny. In: Hoffman A. and Nitecki M.H., editors. *Problematic Fossil Taxa*. Oxford University Press, New York, Clarendon Press, Oxford, p. 59-67.
49. Sokolov B.S. and Fedonkin M.A. 1986. Global biological events in the Late Precambrian. In: 5th A. Wegener Conference "Global Bio-events", University of Goettingen, p. 124-129.
50. Sokolov B.S. and Fedonkin M.A. 1986. Global biological events in the Late Precambrian. In: Walliser O., editor. *Global Bio-events*. Lecture Notes in Earth Sciences. Springer-Verlag, Berlin, Heidelberg, vol. 8, p. 105-108.
51. Sokolov B.S. and Fedonkin M.A. 1986. Global biological events during late Precambrian. In: *The Most Important Biotic Events in the History of Earth*. Abstracts of the papers, 32nd Meeting of the All-Union Paleontological Society. Institute of Geology, Tallin, p. 63-64. (In Russian).
52. Sokolov B.S., Fedonkin M.A., Gnilovskaya M.B. 1987. Terminal Precambrian System: the problem of standard's selection. In: *International Symposium on the Terminal Precambrian and Cambrian Geology*. Abstracts. Ychang, p. 74-75.
53. Fedonkin M.A. 1987. Paleozoology of the Vendian and stratigraphic significance of the Precambrian soft-bodied fauna. In: *International Symposium on the Terminal Precambrian and Cambrian Geology*. Abstracts. Ychang, p. 36-37.

54. Fedonkin, M.A., 1987. Non-skeletal fauna of the Vendian and its place in the evolution of metazoans. Transactions of the Paleontological Institute, vol. 226. Nauka, Moscow, p. 1-175. (In Russian).
55. Fedonkin M.A. 1987. Fossil traces. Priroda, N 8, p. 82-94. (In Russian).
56. Fedonkin M.A. 1987. Paleozoology of the Precambrian: progress and new tasks. In: Third All-Union Symposium on the paleontology of the Precambrian and Early Cambrian. Abstracts. Petrozavodsk, p. 97-99. (In Russian).
57. Fedonkin M.A., Chumakov N.M. and Yankauskas T.V. 1987. The problem of the global biotic and abiotic events in the Late Precambrian. In: Third All-Union Symposium on the paleontology of the Precambrian and Early Cambrian. Abstracts. Petrozavodsk, p. 99-101. (In Russian).
58. Sokolov B.S., Kalio D.L. and Fedonkin M.A. 1987. First conference on the Project "Global biological events in the Earth History", IGCP. In: Information materials on the activity of the Scientific Council on the problem "Ways and regularities of historical development of animal and plant organisms" in 1986. Paleontological Institute, USSR Academy of Sciences, Moscow, 51-68. (In Russian).
59. Fedonkin M.A. 1988. Major concepts and problems of paleoichnology. In: Menner V.V. and Makridin V.P., editors. Modern Paleontology. Vol. 1. Moscow, Nedra, p. 400-415. (In Russian).
60. Fedonkin M.A. 1988. Taphonomy of the non-skeletal multicellular animals. In: Menner V.V. and Makridin V.P., editors. Modern Paleontology. Vol. 1. Moscow, Nedra, p. 434-446. (In Russian).
61. Sokolov B.S. and Fedonkin M.A. 1988. Early stages in the development of life on Earth. In: Menner V.V. and Makridin V.P., editors. Modern Paleontology. Vol. 2. Moscow, Nedra, p. 118-141. (In Russian).
62. Lipps J.H. and Fedonkin M.A. 1988. Trace fossils and the Precambrian-Cambrian boundary. Geological Society of America, Abstracts with Program, vol. 20, p.177.
63. Fedonkin M.A. 1988. Paleoichnology of the Precambrian-Cambrian transition in the Russian Platform and Siberia. In: Landing E., Narbonne G.M. and Mirrow P., editors. Trace Fossils, Small Shelly Fossils and the Precambrian-Cambrian Boundary. New York State Museum, Albany, Bulletin, vol. 463, p. 12.
64. Fedonkin M.A. 1989. Enigmas of the Vendian fauna. Priroda, N 8, p. 59-72. (In Russian).
65. Fedonkin M.A. 1989. Geobiological events on the Proterozoic-Phanerozoic transition. In: 28th International Geological Congress, Washington D.C., July 9-19, 1989. Abstracts, vol. 1, p. 475-476.
66. Sokolov B.S. and Fedonkin M.A. 1989. Terminal System of the Precambrian: problems and the strategy of studies. In: 28th International Geological Congress, Washington D.C., July 9-19, 1989. Abstracts, vol. 3, p. 150.

67. Fedonkin M.A. 1990. Stratigraphic significance of the Precambrian metazoans. In: Canadian Paleontology and Biostratigraphy. Seminar. Program and Abstracts. Queen's University, Kingston, Ontario. Sept. 28-Oct.1, 1990, p. 50.
68. Fedonkin M.A. 1990. Trace fossils at the Vendian-Cambrian boundary: two models of distribution. 3-rd International Symposium on the Cambrian System. Abstracts. Novosibirsk. p. 95.
69. Fedonkin, M.A. 1990. Precambrian metazoans. In: Briggs, D.E.G. & Crowther, P.R., eds., *Palaeobiology. A Synthesis*. Blackwell Scientific Publ. Ltd., p. 17-24.
70. Fedonkin M.A. 1990. Non-skeletal fauna of the Vendian: promorphological analysis. In: Sokolov, B.S. and Iwanowski, A.B., editors. *The Vendian System. Vol. 1. Paleontology*. Springer-Verlag, 7-70. (Translation from original paper of 1985 with some modification).
71. Fedonkin, M.A. 1990. Systematic description of the Vendian Metazoa. In: Sokolov, B.S. & Iwanowski, A.B., eds., *The Vendian System. Vol. 1. Paleontology*, p. 71-120, Springer-Verlag, Berlin. (Translation from original paper of 1985 with some modification).
72. Fedonkin, M.A. 1990. Paleoichnology of Vendian Metazoa. In: Sokolov, B.S. & Iwanowski, A.B., eds., *The Vendian System. Vol. 1. Paleontology*; 132-137, Springer-Verlag, Berlin. (Translation from original paper of 1985 with some modification).
73. Sokolov B.S. and Fedonkin M.A. 1990. Vendian as the model of the Terminal Precambrian System. In: Second All-Union Conference "General questions of the division of the Precambrian in the USSR", Upper Proterozoic Stratigraphy of the USSR, Abstracts, Ufa, p. 22-25. (In Russian).
74. Semikhatov M.A., Fedonkin M.A., Veiss A.F., Volkova N.A., Gnilovskaya M.B., Golovenok B.K., Sergeev V.N., Sochava A.V., Shenfil V.Yu., Yakshin M.S. 1990. Paleontological method in the Precambrian stratigraphy. In: Second All-Union Conference "General questions of the divisions of the Precambrian in the USSR", Abstracts, Ufa, p. 35-45. (In Russian).
75. Fedonkin MA. 1990. New look at the oldest animals. *Priroda*, N 5, p. 116-117. (In Russian).
76. Zavarzin G.A. and Fedonkin M.A. 1990. Memory about Igor Nikolaevich Krylov. *Priroda*, N 4, p. 24-26. (In Russian).
77. Fedonkin M.A. 1991. Biosphere: fourth dimension. *Priroda*, N 9: 10-18. (In Russian).
78. Yochelson E.L. and Fedonkin M.A. 1991. Paleozoic trail. *National Geographic Research and Exploration*, 7(4), p. 453-455.
79. Fedonkin M.A. 1992. Neoproterozoic ecosystem restructuring: from net to pyramid. In: Fifth International Conference on Global Bioevents. Abstract volume, Goettingen, p. 33-34.
80. Yochelson E.L., Parrish M., and Fedonkin M.A. 1992. Reconstruction of the Late Cambrian Climactichnites. Fifth North American Paleontological Convention, Abstracts with program. *The Paleontological Society Special Publication N 6*, p. 321.

81. Runnegar B.N. and Fedonkin M.A. 1992. Proterozoic metazoan body fossils. In: Schopf J.W. and Klein C. (eds.) *The Proterozoic Biosphere. A Multidisciplinary Study*. Cambridge University Press, New York, p. 369-388.
82. Fedonkin, M.A. and Runnegar, B.N. 1992. Proterozoic metazoan trace fossils. In: Schopf, J.W. and Klein, C., editors. *The Proterozoic Biosphere. A Multidisciplinary Study*. Cambridge University Press, New York, p. 389-395.
83. Bengtson S., Fedonkin M.A., and Lipps J.H. 1992. The major biotas of Proterozoic to Early Cambrian multicellular organisms. In: Schopf J.W. and Klein C. (eds.) *The Proterozoic Biosphere. A Multidisciplinary Study*. Cambridge University Press, New York, p. 433-435.
84. Lipps J.H., Bengtson S., and Fedonkin M.A. 1992. Ecology and Biogeography. In: Schopf, J.W. and Klein, C., editors. *The Proterozoic Biosphere. A Multidisciplinary Study*. Cambridge University Press, New York, p. 437-441.
85. Towe K.M., Bengtson S., Fedonkin M.A., Hofmann H.J., Mankiewicz C., Runnegar B.N. 1992. Described taxa of Proterozoic and selected earliest Cambrian carbonaceous remains, trace and body fossils. In: Schopf, J.W. and Klein, C., editors. *The Proterozoic Biosphere. A Multidisciplinary Study*. Cambridge University Press, New York, p. 953-1053.
86. Fedonkin M.A. 1992. Paleobiology of the Precambrian: on the way to the synthesis. In: Sokolov B.S. and Iwanowski A.B., editors. *Fauna and Ecosystems of the Geological Past*. Moscow, Nauka, p. 7-21. (In Russian).
87. Fedonkin M.A. 1992. Vendian faunas and the early evolution of Metazoa. In: Lipps J.H. and Signor P.W., editors. *Origin and Early Evolution of the Metazoa*. Plenum Press, New York, London, p. 87-129.
88. Yochelson E.L. and Fedonkin M.A. 1993. Paleobiology of *Climactichnites*, an Enigmatic Late Cambrian Fossil. *Smithsonian Contribution to Paleobiology*, N 74, Smithsonian Institution Press, Washington D.C., p. 1-74.
89. Vyalov O.S. and Fedonkin M.A. 1993. (eds.). *Trace Fossils of Extinct Organisms. (Sledy zhiznedeyatel'nost' drevnikh organizmov)*. Moscow, Nauka, 125 pp. (In Russian).
90. Crimes T.P. and Fedonkin M.A. 1994. Evolution and dispersal of deepsea traces. *Palaios*, vol. 9, N 1, p. 74-83.
91. Fedonkin M.A., Yochelson E.L. and Horodyski R.J. 1994. Ancient Metazoa (A search for ancient metazoa: the Appekunny Formation, Glacier National Park, Montana). *National Geographic Research and Exploration*, 10(2), p. 200-223.
92. Fedonkin M.A. 1994. Vendian body fossils and trace fossils. In: Bengtson S. (ed.) *Early Life on Earth (Nobel Symposium 84)*, Columbia University Press, New York. p. 370-388.
93. Rozanov A.Yu. and Fedonkin M.A. 1994. The problem of the primary biotope of the eukaryotes. In: Rozanov A.Yu., and Semikhatov M.A., editor. *Ecosystem Restructurings and the Evolution of Biosphere*. Moscow, Nedra, p. 25-32. (In Russian).

94. Fedonkin M.A. 1995. Cold-water cradle of animal life. In: Krasilov V.A., and Rozanov A.Yu., editors. *Ecosystem Evolution. Abstracts of International Symposium, September 26-30, 1995, Moscow, Paleontological Institute, Russian Academy of Sciences*, p. 123-124.
95. Crimes T.P. and Fedonkin M.A. 1995. Biotic changes in platform communities across the Precambrian-Cambrian boundary. 6th Paleobenthos International Symposium, October 25-31, 1995, Sardinia. *Abstracts-book*, p. 27-28.
96. Fedonkin M.A. 1996. Geobiological trends and events in the Precambrian biosphere. In: Walliser O.H. (ed.) *Global Events and Event Stratigraphy in the Phanerozoic: Results of the International Interdisciplinary Cooperation in the IGCP-Project 216 "Global Biological Events in Earth History"*. Springer-Verlag, Berlin, Heidelberg, pp. 89-112.
97. Fedonkin M.A. 1996. Precambrian fossil record: new insight of life. In: Ghiselin M. and Pinna G., editors. *Systematic Biology as an Historical Science. Memorie della Societa Italiana di Scienze Naturali e del Museo Civico di Storia Naturale di Milano, Vol. XXVII, Fascicolo 1*, pp. 41-48.
98. Fedonkin M.A. 1996. The oldest fossil animals in ecological perspective. In: Ghiselin M. T. and G. Pinna, editors. *New Perspectives on the History of Life. Memoirs of the California Academy of Sciences, Number 20*, pp. 31-45.
99. Fedonkin M.A. 1996. Ausia as an ancestor of archeocyathans, and other sponge-like organisms. In: *Enigmatic Organisms in Phylogeny and Evolution. Abstracts. Moscow, Paleontological Institute, Russian Academy of Sciences*, p. 90-91. (In Russian).
100. Fedonkin M.A., Waggoner B.M. 1996. Vendian Kimberella - the oldest mollusk. In: *Enigmatic Organisms in Phylogeny and Evolution. Abstracts. Moscow, Paleontological Institute, Russian Academy of Sciences*, p. 91-92. (In Russian).
101. Grazhdankin D.V., Fedonkin M.A. 1996. New data on *Charnia masoni* Ford, 1958 from the upper Vendian of the Winter Shore of the White Sea. In: *Enigmatic Organisms in Phylogeny and Evolution. Abstracts. Moscow, Paleontological Institute, Russian Academy of Sciences*, p. 25-27. (In Russian).
102. Fedonkin M.A. 1996. Cold-water cradle of animal life. *Paleontologicheskii Zhurnal (English version)*, v. 30, N 6, pp. 669-673.
103. Fedonkin M.A. 1996. Metameric organisation in Vendian animals. 57 Congresso Nazionale Unione Zoologica Italiana, Riassunti dei contributi scientifici. San Benedetto del Tronto, 22-26 Settembre, 1996, p. 13.
104. Fedonkin, M. A. and Waggoner, B. M. 1996. The Vendian fossil Kimberella: The oldest mollusc known. *Geological Society of America Abstracts with Programs*, vol. 28, no. 7, p. A53.
105. Crimes T.P., Fedonkin M.A. 1996. Biotic changes in platform communities across the Precambrian-Phanerozoic boundary. *Revista Italiana di Paleontologia e Stratigrafia. Vol. 102, N 3*, p. 317-331.

106. Fedonkin M.A., Waggoner B.M. 1997. The Late Precambrian fossil *Kimberella* is a mollusc-like bilaterian organism. *Nature*, vol. 388, p. 868-871.
107. Rozanov A.Yu., Semikhatov M.A., Sokolov B.S., Fedonkin M.A., Khomentovskii V.V. 1997. The decision on the Precambrian-Cambrian boundary stratotype: a breakthrough or misleading action? *Stratigraphy and Geological Correlation*, vol.5, N 1, pp. 19-28.
108. Fedonkin M.A. 1977. Proterozoic global events and formation of the Phanerozoic biosphere (state of the problem). Information materials on the activity in 1996 of the Scientific Council on the Problems of Paleobiology and Evolution of Organic World. Paleontological Institute, Russian Academy of Sciences, Moscow, p. 39-53. (In Russian).
109. Yochelson E.L., Fedonkin M.A. 1997. The type specimens (Middle Cambrian) of the trace fossil *Archaeonassa Fenton* and *Fenton*. *Can. J. Earth Sci.* 34, p. 1210-1219.
110. Fedonkin M.A. 1998. Metameric features in the Vendian metazoans. *Italian Journal of Zoology*, v. 65, p. 11-17.
111. Fedonkin M.A. 1998. Second birth of *Kimberella*. *Priroda*, 1, p. 3-10. (In Russian).
112. Lipps J.H., Collins A.G. and Fedonkin M.A. 1998. Evolution of biological complexity: Evidence from geology, paleontology and molecular biology. In: Hoover R.B. (ed.) *Instruments, Methods, and Missions for Astrobiology. Proceedings of The International Society for Optical Engineering*, vol. 3441, p. 138-148.
113. Fedonkin, M.A., Ivantsov, A.Yu. & Grazhdankin D.V. Biostratigraphic potential of the Vendian fauna. In: *Stratigraphy, Paleontology, and Perspectives for Oil of the Riphean and Vendian of East Part of the East-European Platform, Proc., Pt. 2, 77-78. June 7-11, 1999, Ufa (1999. In Russian).*
114. Ponomarenko A.G., Rozanov A.Yu., Fedonkin M.A. (editors), 1998. *Ecosystem restructurings and evolution of biosphere. Paleontological Institute RAS, Moscow, 132 pp.*
115. Leonov Yu.G., Pusharovskiy Yu.M., Semikhatov M.A., Sokolov B.S., Gladenkov Yu.B., Krasheninnikov V.A., Fedonkin M.A., Heraskova T.N., Chimakov N.M. 1998. *Memory of Boris Maksimovich Keller (1912-1997). Stratigraphy. Geological Correlation. Vol. 6, No. 2, p. 108-110. (In Russian and English).*
116. Tatarinov L.P., Sokolov B.S., Rozanov A.Yu., Fedonkin M.A., Alekseev A.S. et al., 1999. *Jack Sepkoski (1948-1999). Paleontologicheskii Zhurnal (Paleontological Journal), No. 5, 127-128.*
117. Martin, M.W., Grazhdankin, D.V., Bowring, S.A., Evans, D.A.D., Fedonkin, M.A., and Kirschvink, J. L. 2000. Age of Neoproterozoic bilaterian body and trace fossils, White Sea, Russia: implications for metazoan evolution. *Science*, vol. 288, pp. 841-845.
118. Fedonkin M.A. 2000. Cold dawn of animal life. *Priroda*, No. 9, pp. 3-11. (In Russian).

119. Lipps J.H., Gershwil L.-A., and Fedonkin M.A. 2000. Ediacarans were not garden. GSA Meeting, Abstracts with Program.
120. Fedonkin M. A. Vendian trace fossils: Paleozoological and paleoecological implication. General Symposium 2-1 "New Trends in Paleoichnology". 31 IGC, Proc., 2000.
121. Fedonkin M. A. Terminal Proterozoic paleontology and stratigraphy of Russia. General Symposium 2-6 "Contributions of Paleontology to Biospheric Evolution and Temporal Subdivision of the Precambrian". 31 IGC, Proc., 2000.
122. Yochelson, Ellis L. and Mikhail A. Fedonkin. 2000. A new tissue-grade organism 1.5 billion years old from Montana. Proceedings of the Biological Society of Washington, volume 113, number 3, pages 843-847. 1 November 2000.
123. Stankovski A.F. and Fedonkin M.A. 2000. Fossil localities of the Vendian non-skeletal fauna in the south-east White Sea Region. In: Essay on the Geology and Mineral Deposits of the Arkhangelsk Region (Galimysyanov R.M., editor). Pomorski State University, Arkhangelsk, pp. 142-153. (In Russian).
124. Ivantsov A.Yu. and Fedonkin M.A. 2001. Locomotion trails of the Vendian invertebrates preserved with the producer's body fossils, White Sea, Russia. North American Paleontological Convention 2001, Berkeley, California. Program&Abstracts, PaleoBios, v. 21, p. 50.
125. Fedonkin, M.A. and Ivantsov A. Yu. 2001. Faunal succession in the Vendian (Terminal Proterozoic) deposits of the White Sea Region, north of the Russian Platform. North American Paleontological Convention 2001, Berkeley, California. Program&Abstracts, PaleoBios, v. 21, p. 69.
126. Fedonkin M.A. and Ivantsov A.Yu. 2001. Faunal succession in the terminal Proterozoic of Russia. Geological Association of Canada, St. John's, Newfoundland. Abstract Volume 26, p. 43.
127. Ivantsov A.Yu. and Fedonkin M.A. 2001. Locomotion trails of the Ediacara-type organisms preserved with the producer's body fossils, White Sea, Russia. Geological Association of Canada, St. John's, Newfoundland. Abstract Volume 26, p. 69.
128. Yochelson E.L., Grey K., and Fedonkin M.A. 2001. A complex megafossil 1.5 billion years old from Montana and Western Australia. North American Paleontological Convention, Berkeley, California. Abstracts. P. 137.
129. Fedonkin M.A. 2001. Glimpse into 600 million years deep. Science in Russia, No. 6, p. 4-15.
130. Fedonkin M.A. 2001. Proterozoic fossil record and origin of Metazoa. The 17th International Symposium in Conjunction with Award of the International Prize for Biology "The Origin and Early Evolution of Metazoa", December 5-6, 2001, Kyoto University, Kyoto, Program and Abstracts, p. 5-7.
131. Ivantsov A.Yu. and Fedonkin M.A. 2001. Trails of active locomotion – the final evidence of animal nature of the Ediacaran organisms. Second International Symposium "Evolution of Life on Earth", Contributions (V.M.Podobina, editor), p. 133-137. NTL, Tomsk.

132. Fedonkin M.A. and E.L. Yochelson, 2002. Middle Proterozoic (1.5 Ga) *Horodyskia moniliformis* Yochelson and Fedonkin, the Oldest Known Tissue Grade Colonial Eukaryote. *Smithsonian Contribution to Paleobiology*, No. 94, 29 pp.
133. Grey K., Williams I.R., Martin D.McB., Fedonkin M.A., Gehling J.G., Runnegar B.N., and Yochelson E.L. 2002. New occurrences of 'strings of beads' in the Bangemall Supergroup: a potential biostratigraphic marker horizon. *Geological Survey of Western Australia, Annual Review 2000-2001*, p. 69-73.
134. Fedonkin M. A. 2002. *Andiva ivantsovi* gen. et sp. n. and related carapace-bearing Ediacaran fossils from the Vendian of the Winter Coast, White Sea, Russia. *Italian Journal of Zoology*, v. 69, p. 175-181.
135. Sokolov B.S. and Fedonkin M.A. 2002. Academician M.A. Semikhatov and Proterozoic geology. *Stratigraphy and Geological Correlation*, vol. 10, № 1, p. 104-109.
136. Fedonkin M.A., Gehling J., Vickers-Rich P. 2002. The dawn of life and the rise of complexity. *The Age. Science Series: Biology, Education*, Wednesday November 13, 2002, p. 8-9.
137. Fedonkin M.A., Sokolov B.S., Ivantsov A.Yu., Gnilovskaya M.B., Grazhdankin D.V., Ragozina A.L., 2002. The Vendian fauna in the aspects of stratigraphy, paleoecology, and evolution. All-Russian Scientific Conference "Geology, Geochemistry and Geophysics on the Boundary between the XX and XXI Centuries", Abstracts. Russian Fund for Basic Research, Moscow. Vol. 1, p. 177. (In Russian).
138. Kurochkin E.N., Fedonkin M.A., Pushkar' V.S. 2002. North American Paleontological Convention "Paleontology in New Millenium". *Paleontologicheskii Zhurnal*, No. 5, p. 121-124. (In Russian).
139. Lipps J.H. and Fedonkin M.A. 2002. Early evolution of marine trophic structures: Neoproterozoic to Cambrian. *Geological Society of America, Abstracts with Programs*, Denver October 27-30, 2002: 34(6), p. 170.
140. Ivantsov A.Yu. and Fedonkin M.A. 2002. Conulariid-like fossil from the Vendian of Russia: a metazoan clade across the Proterozoic/Palaeozoic boundary. *Palaeontology*, vol. 45, N 6, p. 1219-1229.
141. Fedonkin M.A. 2002. Geochemical deterioration of biosphere as a stimulus for growth of the biological complexity and heterotrophy. *International Conference "Bacterial Paleontology"*, Moscow, Paleontological Institute. Abstracts.
142. Hengeveld R. and Fedonkin M.A. 2003. Life's origin and unfolding popularized - De Duve, C., (2002). *Life evolving. Molecules, mind and meaning. Acta Biotheoretica*, vol. 51, No. 3, p. 239-244.
143. Fedonkin M.A. 2003. Metazoans of the Vendian Period in the aspects of palaeoecology and palaeogeography: White Sea, Russia. III International Colloquium Vendian-Cambrian of W-Gondwana. Programme and Extended Abstracts. (Ed. H.E. Frimmel), University of Cape Town, 23-24 October 2003, p. 25-26.
144. Fedonkin M.A. 2003. The origin of the Metazoa in the light of the Proterozoic fossil record. *Paleontological Research*. V. 7. № 1. P. 9-41.

145. Fedonkin M.A. 2003. Geochemical impoverishment and eukaryotization of the biosphere: a causal link. *Paleontological Journal*, vol. 37, No. 6, p. 592-599. (In Russian and English).
146. Fedonkin M.A. 2003. Geochemical starvation and origin of the kingdoms. *Himiya i zhizn'* (Chemistry and Life. Science Popular Magazine), № 6, p. 12-17 (In Russian).
147. Fedonkin M.A. 2003. Introduction. *PINopticus*. P. 2 (in Russian).
<http://www.paleo.ru/institute/paper.pdf>
148. Fedonkin M.A. 2004. Cold Cradle of Animal Life and Colonization of the Carbonate Basins. In 21st century Center of Excellence (COE) for Earth Sciences, International Symposium "Predictability of the Evolution and Variation of The Multi-scale Earth System" The University of Tokyo, Japan, January 8-9, 2004. Proceedings, p. 48-75.
149. Fedonkin M.A. 2004. Origin of animals in the light of the fossil record and genomics, consequences of the metazoan expansion in the Vendian-Cambrian biosphere. In: *Processes in Biosphere: Paleontology and Stratigraphy*. 50th Session of the Paleontological Society, 5-9 April 2004. Abstracts, 130-133.
150. Fedonkin M.A. 2004. Availability of metals in Archean-Proterozoic ocean: a driving force for the evolution of enzymes and origin of the eukaryotic cell. Presentation code: A32IGCJ85C, on session "T06.02 Geochemical environment of the genesis of life", 32 International Geological Congress, Florence, Italy. August 25, 2004.
151. Fedonkin M.A. The cold cradle of animal life and metazoan colonization of warm carbonate basins during the Vendian-Cambrian transition. In: Fedonkin M., Vickers-Rich P., and Gehling J., conveners: *The Rise and Fall of the Vendian Biota*, IGCP Project 493, 30-31 August 2004, Prato, Italy. 2 pp.
152. Fedonkin M.A., Simonetta A., Ivantsov A.Yu., , 2004. New Data on *Kimberella*, the Vendian Mollusc-like Organism (White Sea Region, Russia): Paleoeological and Evolutionary Implications. In: Fedonkin M., Vickers-Rich P., and Gehling J., conveners: *The Rise and Fall of the Vendian Biota*, IGCP Project 493, 30-31 August 2004, Prato, Italy. 3 pp.
153. Fedonkin M.A. and Yochelson E.L. 2004. The Middle Proterozoic fossil *Horodyskia* from north America and Australia. The Geological Society of America, Northeastern Section (39th Annual) and Southeastern Section (53rd Annual) Joint Meeting (March 25-27, 2004). General Discipline Session. Abstracts.
154. Fedonkin M.A. 2004. Cold cradle of animal life and colonization of carbonate basins. 21st Century of Excellence (COE) International Symposium: Predictability of the Evolution and Variation of the Multi-scale Earth System", January 8 - 9, 2004. Sanjo Kaikan, University of Tokyo. P. 48-75.
155. Fedonkin M.A. 2004. The cold cradle of animal life and metazoan colonization of warm carbonate basins during the Vendian-Cambrian transition. Ashwal L.D. (editor) *Geoscience Africa 2004*. Abstracts. Vol. 1. p. 200.

156. Fedonkin M.A. 2004. Availability of metals in Archean-Proterozoic oceans: A driving force for the evolution of enzymes and origin of the eukaryotic cell. 32nd International geological Congress, Firenze, Italy, August 20-28, 2004. Abstracts.
157. Fedonkin M.A. 2004. Origin of animals in the light of the fossil record and genomics, global consequences of the metazoan expansion during the Vendian and Cambrian. Russian Paleontological Society, Sankt-Peterburg.
158. Hengeveld, R. and Fedonkin, M. A. 2004. Causes and consequences of eukaryotization through mutualistic endosymbiosis and compartmentalization. *Acta Biotheoretica*. Volume 52. No. 2. P. 105-154.
159. Fedonkin M.A. 2004. Metal availability change and eukaryotization of biosphere through the Precambrian. In: Gavrilov Yu.O. and Hutorskoi M.D. (editors). *Modern Problems of Geology*. Transaction of the Geological Institute, Russian Academy of Sciences, volume 565. Nauka, Moscow. P. 426-447. (In Russian with extended English abstract).
160. Yolkin E.A., Kanygin A.V., Fedonkin M.A. Short outline of the scientific, scientific-organizational, and pedagogic and public activity. In: Boris Sergeevich Sokolov. *Materials for the biobibliography of the scientists of Russia*. Second edition. Nauka, Moscow. 2005. P. 26-70.
161. Fedonkin M.A., Finashina G.N., Nilova L.Ya. Boris Sergeevich Sokolov. *Materials for the biobibliography of the scientists of Russia*. Second edition. Nauka, Moscow. 2005. 212 pp.
162. Fedonkin M.A. 2006. Eukaryotization of ancient biosphere: factors and succession of events. 52nd Session of the Paleontological Society: Modern paleontology: classical and non-traditional. Abstracts. St. Petersburg. 3-7 April 2006. P. 126-128. (In Russian).
163. Fedonkin M.A. 2006. Availability of transition metals as a key factor of the origin and evolution of life. International Symposium on Molecular Photonics, Abstracts. St. Petersburg. June 28 - July 2, 2006. 1 p.
164. Fedonkin M.A. 2006. Transition metals, enzymes, and rise of the biological complexity in the early biosphere. In: *Ancient Life and Modern Approaches*. Abstracts of the Second International Palaeontological Congress, June 17-21, 2006, Beijing, China. (Qun Yang, Yongdong Wang, and Elizabeth A. Weldon, eds.) University of Science and Technology of China Press. P. 25-26.
165. Fedonkin M.A. 2006. Ediacaran (Vendian) radiation of marine biota: palaeoecological and stratigraphic implications. In: *Ancient Life and Modern Approaches*. Abstracts of the Second International Palaeontological Congress, June 17-21, 2006, Beijing, China. (Qun Yang, Yongdong Wang, and Elizabeth A. Weldon, eds.) University of Science and Technology of China Press. P. 278.
166. Fedonkin M.A. 2006. Two records of life: an experience of comparative analysis (paleobiology and genomics on the early stages of evolution of biosphere). *Transaction of the Institute of Geology, Komi Science Center, Ural Branch of the Russian Academy of Sciences, Syktyvkar* p. 331-350. (In Russian).

167. Fedonkin M.A. Eukaryotization of ancient biosphere. Transactions of the Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences. Nauka, Moscow (in press). 92 pp.
168. Semikhatov M.A., Fedonkin M.A. et al. 2006. Major stages in the development of the Precambrian organic world. Article 1. Archean, early Proterozoic. Stratigraphy. Geological Correlation (in press).
169. Sergeev V.N., Semikhatov M.A., Fedonkin M.A., Veiss A.F., Vorobyova N.G. Major stages in the development of the Precambrian organic world. Article 2. Late Proterozoic. (in press).
170. Fedonkin M.A., Rich P., Gehling J., Grey K., Narbonne G. Origin of Animalia. John Hopkins Press. (in press)
171. Sokolov B.S. and Fedonkin M.A. The Vendian System (Period). Great Russian Encyclopedia. (in press).
172. Fedonkin M.A. Organic world of the Vendian. Great Russian Encyclopedia. (in press).
173. Grey K., E.L. Yochelson, M.A. Fedonkin, and D.McB. Martin. *Horodyskia williamsii* new species, a Mesoproterozoic megafossil from Western Australia. *Alcheringa*. (in press).
174. Fedonkin M.A. and E.L. Yochelson. Mezoproterozoic *Horodyskia*, the earliest known tissue grade eukaryote: ecological and evolutionary implications. *Paleobiology*. 40 pp. (in press).
175. Fedonkin M.A. Origins of modern biosphere (Russian research in the Project 493 "Rise and Fall of the Vendian Biota" IGCP, UNESCO). In Russian. In press.

Publications in the Internet:

Fedonkin M.A. Biodiversity and Biosphere in the Archeozoic Era through the Cambrian Period. Lectures at the UNESCO International School of Science for Peace. Autumn School on "Global Climate Changes and Impact on Biosphere" October 2-13, 2000, Milan. (WWW site of the Dept. of Environmental Science, Università degli Studi di Milano Bicocca, Italy)
WWW site of the Paleontological Institute, Russian Academy of Sciences:
<http://www.paleo.ru/paleonet/library.html?show=9>

Fedonkin M.A. Cold Cradle of Animal Life. (WWW site of the Paleontological Institute, Russian Academy of Sciences: <http://www.paleo.ru/paleonet/library.html?show=3>)

Fedonkin M.A. Geochemical impoverishment of the biosphere and rise of complex life. (WWW site of the Monash University, Victoria, Australia:
http://www.sci.monash.edu/news/articles/pdf/Abs_Fedonkin.pdf)

New Internet site of the Laboratory: <http://www.vend.paleo.ru>

Fedonkin M.A. 2003. Introduction. PINopticus. P. 2 (in Russian).
<http://www.paleo.ru/institute/paper.pdf>

Fedonkin M.A. and Simonetta A. The main Metazoan Radiation: a Pre Cambrian event. http://rocek.gli.cas.cz/hatschek_soubory/abstracts.htm

Fedonkin M.A. Rise of modern biosphere (Russian research on the Project 493 “Rise and Fall of the Vendian Biota” IGCP, UNESCO) <http://igcpc.ru/articles/493.php>