

Obituary: 俄罗斯科学院院士 Valentin Krassilov (1937--2015)  
<http://blog.sciencenet.cn/blog-225931-1023266.html>

2016-12-25 23:32

2015 年 2 月 15 日，俄罗斯科学院院士、古植物学家 Valentin Abramovich Krassilov (1937--2015) 在以色列 Haifa 去世。Krassilov 教授的女儿 Katrina Krassilova 博士等写的回忆文章：

Katrina Krassilova, 2015. Valentin Abramovich Krassilov memorial article. *Botanica Pacifica. A journal of plant science and conservation*. 4(2): 161–174 DOI: 10.17581/bp.2015.04222

Bob Spicer, Alexei Herman, Tatiana Kodrul and Natalia Maslova, 2015. *International Organisation of Palaeobotany (IOP) NEWSLETTER* (No.107, September 2015), pp.8—12.

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相关阅读：

古植物学的故事（58）：

介绍俄罗斯科学院的古植物学院士---- Valentin A. Krassilov（1937--2015）

Story of Palaeobotany Series (No.58): Valentin A. Krassilov（1937--2015）

Famous palaeobotanist -- Academician of the Russian Academy of Sciences ([Short introduction in Chinese and Professor Krassilov's CV in English](#))

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发表于 2010-7-6 23:07:10

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OBITUARY Valentin Krassilov: 1 December 1937 - 10 February 2015 On February 10th 2015 Valentin Krassilov died in Haifa, Israel. He was a well-known and distinguished geologist, biologist, palaeobotanist, evolutionary scientist, and philosopher. Science was the foundation of Krassilov's life, eschewing the mundane and often requesting that he be left alone to focus on the task in hand. To those who knew him at conferences in later life he could appear humourless, rarely smiling, and often consumed by his own thoughts. However, those who knew him well were aware that he possessed a unique and wonderful sense of humour, liked to participate in the preparation of different celebrations and parties, and reportedly was an excellent dancer.

Valentin was born in Kiev on December 1st 1937. His father was a professional military man and his mother, who taught English, encouraged him to read, write, talk and think in two languages. Valentin often used English when he gave presentations, taught students, and wrote papers and books. Valentin was awarded a degree with distinction from the Geological Department of Kharkov State University after which, in 1961, his research career started in the Far Eastern Department of the Siberian Branch of the USSR Academy of Sciences in Vladivostok. His PhD thesis was focused on the Early Cretaceous floras of South Primoriye. It was defended after four years of hard work both in the field and in the laboratory. His colleagues of the time remember very well a sparkling defense and his work was marked as one close to the higher Doctor of Science degree. Valentin's first book entitled "Early Cretaceous Flora of South Primorye and its Stratigraphic Significance", was based on his PhD research, and was published in 1967. In this book he paid special attention to the early angiosperms and from then on, throughout the rest of his life, he returned time and again to the problem of the 'abominable mystery' surrounding the appearance and development of flowering plants. In 1972 Valentin Krassilov became head of the newly created palaeobotanical laboratory of the Branch of

Evolutionary Biology of the Institute of Biology and Pedology, Far Eastern Research Centre, USSR Academy of Sciences in Vladivostok. Vladivostok colleagues remember this time with a particular warmth. He was responsible for

re-organising the laboratory staff, establishing new methods of research and organizing conferences and seminars. People who worked with him remember that he was already quite influential in the broader scientific community, yet he remained open and accessible. An early mark of his brilliance was that he would not automatically buy into the accepted wisdom of the day and constantly approached problems from unique directions. For almost 20 years Valentin Krassilov was head of the Palaeobotanical Laboratory and several of his students went on to join him in there: Nadezhda Blokhina, Eugenia Bugdaeva, Elena Volynets, Valentina Markevich, Svetlana Shorokhova and others. Krassilov's second book, 'Palaeoecology of Terrestrial Plants' (Basic Principles and Methods) was published in 1972. In this book the fundamentals of what was then a relatively new research topic, deep time plant palaeoecology, were presented. Very soon this book was translated into English and published in New York. Bob Spicer, who was then starting his PhD in taphonomy, remembers the impact this book had. It was excitedly discussed by the London based palaeobotanists because it represented a new way of looking at palaeobotany and attempted to break down palaeoecological problems into well-packaged elements. This book was one of only a few research monographs of the Soviet period published in the west. Numerous field expeditions in the Soviet Far East provided Krassilov with abundant material for another scientific approach – Ecostratigraphy. This approach embraces a complex stratigraphic study based on palaeoecology. Many principles and IOP 107 10 September methods of this approach were published by him in two books entitled "Ecostratigraphy: theory and Methods" (1985) and

“Cretaceous Period: Evolution of Earth’s Crust and Biosphere” (1985).

One of his major theoretical books named “Evolution and Biostratigraphy” was published in 1977 when he was still career young. In this major work he, for the first time, used a synthetic analysis of periodicity in geological processes and biological evolution. Throughout his life he returned to this approach and his novel perspective on macroevolution was a recurring theme throughout numerous papers and monographs. The logical continuation of the idea that a single mechanism and common principles permeated the development of the planet and its organisms, including human beings, is encapsulated in “Unsolved problems in the theory of evolution” (1986), “Ecosystem and Egosystem evolution” (1995), and “MetaEcology: the Pattern of the evolution of natural and spiritual systems” (1997). Here the general model of organic evolution became a theoretical background for the study of the principles underlying development of the personality and human spirituality. It is obvious from these works that Valentin was interested in philosophy and indeed this had been so since his early childhood. His mother recalled that even when her son was a schoolboy he recited from Socrates and tried to explain any event using principles of liberalism. At the beginning of perestroika Krassilov was a co-founder of the ‘Intelligent Club’ in Vladivostok, where philosophical seminars were held.

Valentin Krassilov had an ability to see problems from a large-scale perspective and perceive clear directions for the future while at the same time appreciating today’s needs. For example, when he was in Vladivostok, he initiated an ecological council in the Institute of Biology and Pedology that dealt with different aspects of nature conservation. Issues considered included the building of a nuclear power station in Primorya and the ecological problems of lakes in the Far East. His ecological interest was later reflected in his book named ‘Nature Protection: Principles, Problems, Priorities’ published in 1992. A new stage in Krassilov’s life

started in 1989 when he moved to Moscow and became director of the All Russian Institute of Nature Protection and Conservation belonging to the ministry of Ecology. Valentin provided significant scientific input into what was then an institute focused purely on practical activities. In 1994 Valentin Krassilov was appointed head of the newly created Laboratory of Palaeobotany in the Palaeontological Institute of the Russian Academy of Sciences. When he arrived there was no equipment and no team of specialists with whom to work. To develop this laboratory Valentin had to first of all obtain modern technical equipment and attract bright co-researchers. In the 1970s he was one of the first Soviet scientists to use the SEM. He did all the routine work in material preparation, and even with light microscope work he made his own slides and took his own high quality photographs. He invited many young specialists from biological and geological departments of Moscow State University to work in his laboratory, supervising bachelor and masters and PhD research dissertations. Even now many of his former students work at the institute including: Natalia Maslova, Natalia Gordenko, Maria Tekleva, Eugenii Karasev, and Alexandra Sokolova. In April 2001 Krassilov moved to Israel to support his elderly mother. There he started to work with the Institute of Evolution, University of Haifa. He continued his supervision of students in the Palaeobotanical Laboratory of the Palaeontological Institute in Moscow while conducting laboratory studies and fieldwork together with the staff of the Haifa laboratory. Krassilov did a lot to develop palaeobotany in Israel, giving lectures to both students and staff of the university, supervising research and conducted fieldwork, including the collection of numerous Cretaceous plant fossils from the Negev desert. He co-authored a book with Israeli colleagues entitled "Turonian flora of southern Negev, Israel" published in 2005. Valentin also continued his research of plant insect damage. Results of this research were published in a series of papers and a book "Plant –Arthropod Interactions in the Early Angiosperm History: Evidence from the Cretaceous of Israel" (2008). From the

very beginning of his scientific research Valentin was interested in the problem of the origin and early evolution of angiosperms, publishing several books on this topic: "Cercidiphyllum and fossil allies: morphological Interpretation" and "General Problems of Plant Evolution and Development" (2010). The problem of angiosperm origins was discussed by him in a series of papers and

two books published in 1989 and 1997: "Problem of Origin and early Evolution of Flowering Plants" (1989) (In Russian), and "Angiosperm Origins: Morphological and Ecological Aspects" (1997). He was the first to note that typically angiospermous features appeared independently in many different groups of Mesozoic gymnosperms and called such plants pro-angiosperms. He published an innovative hypothesis of a new evolutionary mechanism – horizontal gene transfer - due to which angiosperm features became aggregated in one organism, which ultimately gave rise to flowering plants. In many ways this parallels the idea of reticulate evolution in which, early in the evolution of a major group of organisms, frequent hybridization brought about by weak breeding barriers results in a network of gene flow and a mixture of characters that only become later canalized to form recurring sets of morphological features. Such ideas are becoming increasingly popular to explain early human evolution. Krassilov's views were not always popular with traditionalists. He was aware that numerous examples show that the assignment of Cretaceous angiosperm leaves to modern genera and families is erroneous or, at least, needs more support. Krassilov pointed out that for Cretaceous angiospermous leaves we need to use a morphological classification that is independent from the system used for modern plants. This morphological system should be based on observed features of leaf morphology rather than on weak and often erroneous hypotheses about the morphology of the whole plant. Krassilov (1979, p. 43) noticed that "only an

inductive system with clear diagnoses of the taxa (each taxon includes leaves of a definite morphological type rather than those resembling leaves of a particular extant genus) and consistent application of the principle of priority to names can provide a common language and reduce the loss of information.” This approach allows a palaeobotanist to detect the first appearance of a particular leaf morphotype, trace its geological history, and document the proportions of particular leaf morphotypes that occur within certain time intervals and certain fossil floras. Not everybody agreed with Krassilov’s views, but the problem of angiosperm origin is complicated and it is unreasonable to expect simple answers to this question of flowering plant early evolution. Krassilov’s insights into this topic are all the more valuable for their originality.

In 2014 Valentin Krassilov finished and published his book “Evolution: System Theory”. In this book he includes a synthesis of his views developed throughout his life. He published more than 400 papers and more than 20 books. He was a member of the editorial boards of international and Russian Journals such as Review of Palaeobotany and Palynology, Palaeobotanist, Acta Palaeobotanica, and Palaeontological Journal. He was a field palaeobotanist collecting material from numerous parts of the world including Sakhalin, Kamchatka, Primorye, Amur River Region, Lake Baikal Region, Siberia, Crimea, Israel, Lebanon, China and Mongolia. Not long before he died he took part in an international conference dedicated to 45th anniversary of Russian/Mongolian Palaeontological Expeditions and planned some research with Mongolian Colleagues that was to have taken place in the summer of 2015. We shall miss his originality, depth of thought and companionship. Bob Spicer, Alexei Herman, Tatiana Kodrul and Natalia Maslova

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Valentin A. Krassilov Ph.D.

# <http://evolution.haifa.ac.il/index.php/people/209-valentin-a-krassilov-ph-d>

Professor Emeritus, Posthumously

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Email: [krassilo@research.haifa.ac.il](mailto:krassilo@research.haifa.ac.il)

Subject: Palaeobotany, structural geology, ecology, climatology, global environmental change, biodiversity, evolution

[Lab website](#) | [Contact](#) | [Photo album](#) | [Publications](#) | [CV](#)

Research Interests

Paleofloristics of the Middle East and Eastern Asia (series of monographs on fossil floras and floristic evolution of Israel, Russian Far East, Mongolia, e.g. Krassilov et al., 2005).

- Macrosystematics of fossil plants: new orders of heterosporous plants *Heroleandales*, 2000; gymnosperms *Czekanowskiales* (*Leptostrobales*), 1975; *Eoanthales*, 2005; *Dinophytales*, 2005; new families *Karkeniaceae*, *Pseudotorelliaceae*, *Dirhopalostachyaceae*; About 50 new genera and species of fungi, pteridophytes, gymnosperms and angiosperms.
  - Seed plant phylogeny based on geochronological sequences and transitional forms, showing periodic bursts of radiation as well as parallel development.
  - Angiosperm origins and early evolution (monograph Krassilov, 1997), including (1) proangiosperm concept, (2) arogenic community concept, of biotic communities showing exceptionally high evolution rates and their environmental enhancers, (3) multiple origination centers concept, and (4) reticulate evolution concept.
  - Paleobotanical approach to plant development and evolution (monographic study in Krassilov, 2010).
  - Plant palaeoecology, starting with basic methods and principles (monograph Krassilov, 1975) with implications for community evolution and climatology, including the initiation of pollination palaeoecology and plant - insect co-evolution studies using electronic microscopy of pollen grains preserved in the gut contents of fossil insects, as well as plant - insect interactions based on fossil leaf damages (monograph Krassilov and Rasnitsyn, 2008).
  - Ecosystem Evolution, in particular the development of new concepts and analytical methods (e.g., a quantitative assessment of biomass fluctuations over time and estimate of standing crop diversity based on the species/area correlations), analysis and interpretation of biospheric crises ( monograph Krassilov, 2003), and significance for understanding human evolution (monograph Krassilov, 1995).
- Research Projects

2007-2010 - GIF: "Fossil record of angiosperm evolution and paleoecology in the Middle East" - 225,000 EURO, as PI.

## Selected Publications

Krassilov V.A., Rasnitsyn A.P. Plant - Arthropod interactions in the Early Angiosperm history. Pensoft, Brill, Sophia\_Moscow and Leiden - Boston, 2008, 229 pp. ([Link](#))

Krassilov V.A., Golovneva L.B. 2003. A minute mid-Cretaceous flower and phylogenetic implications. *Geodiversitas* 26(1): 5-15. ([Link](#))

Krassilov V., Silantieva N. 2005. Plant evolution in the Late Cretaceous (Turonian) of the southern Negev, Israel. *Israeli Journal of Plant Science* 53: 55-64. ([Link](#))

Kodrul T., Krassilov V.A. 2006. New juglandaceous fruit morphotype from the Palaeocene of Amur Province, Russian Far East. *Acta Palaeobotanica* 45(2): 139-144. ([Link](#))

Karasev E.V., Krassilov V.A. 2007. Late Permian phylloclades of the genus *Permophyllocladus* and the problems of the evolutionary morphology of peltaspems. *Paleontological Journal* 41(2): 198-206. ([Link](#))

Krassilov V.A., Volynets E.B. 2008. Weedy Albian angiosperms. *Acta Palaeobotanica* 48 (2): 151-169. ([Link](#))



Krassilov V., Karasev E. 2008. First evidence of plant - arthropod interaction at the Permian - Triassic boundary in the Volga Basin, European Russia. *Alavezia* 2: 249-254. ([Link](#))

Krassilov V., Silantjeva N., Hellmund M., Hellmund W. 2007. Insect egg sets on angiosperm leaves from the Lower Cretaceous of Negev, Israel. *Cretaceous Research* 28: 1-9. ([Link](#))

Krassilov V., Shuklina S. 2008. Arthropod trace diversity on fossil leaves from the mid-Cretaceous of Negev. *Alavezia* 2: 239-245. ([Link](#))

Krassilov V.A. 2008. Evidence of temporary mining in the Cretaceous fossil mine assemblage of Negev, Israel. *Insect Science* 261: 285-290. ([Link](#))

Krassilov V.A. 2008. Mine and gall predation as top down regulation of plant - insect systems in the Cretaceous of Negev. *Palaeogeography, Palaeoecology, Palaeoclimatology* 261: 261-269. ([Link](#))

Krassilov V.A. 2007. Mines and galls on fossil leaves from the Late Cretaceous of southern Negev, Israel. *Proc. Fossils X 3 Congress, Pretoria. African Invertebrates* 48(1): 2-11. ([Link](#))

Krassilov V.A., Rasnitsyn A.P., Afonin S.A. 2007. Pollen eaters and pollen morphology in Paleozoic and Mesozoic plants. *Proc. Fossils X 3 Congress, Pretoria. African Invertebrates* 48(1): 13-22. ([Link](#))

Silantjeva N., Krassilov V.A. 2006. *Weichselia* Stiehler from Lower Cretaceous of Makhtesh Ramon, Israel: new morphological interpretation and taxonomical affinities. *Acta Palaeobotanica* 46(2): 119-136. ([Link](#))

Tekleva M.V., Krassilov V.A., Kvaček J., Van Konijnenburg-Van Cittert J.H.A. 2006 Pollen genus *Eucommiidites*: ultrastructure and affinities. *Acta Palaeobotanica* 46(2): 137-156. ([Link](#))

Krassilov V.A. Diversity of Mesozoic gnetophytes and initial angiosperms. *Paleontol. J.* 43(10): 1272-1280. ([Link](#))

Krassilov V.A., Karasev E.V. 2009. Paleofloristic evidence of climate change near and beyond the Permian - Triassic boundary. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 284(3-4): 326-336. ([Link](#))

Krassilov V.A. 2006. Paleontology and paradigms of modern natural science. Evolution of biosphere and biodiversity. Alexey Rozanov 70<sup>th</sup> birthday. Moscow, KMK: 7-19 (reprinted in *Ecology and Life*, 2009, 5(90): 4-10) (in Rus.). ([Link](#))

## Krassilov

### CV V. Krassilov

<http://evolution.haifa.ac.il/index.php/27-people/cv/18-cv-krassilov>

Born: December 1, 1937, Kiev, Ukraine.

Aliyah: April 12, 2001

Marital Status: Married, with daughter Katherine, 1971.

Citizenship and ID: Israeli

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Email: [vkrassilov@gmail.com](mailto:vkrassilov@gmail.com) ; [krassilo@research.haifa.ac.il](mailto:krassilo@research.haifa.ac.il)

Research Interests:

Palaeontology, Structural geology, Ecology, Climatology, Global Environmental Change, Biodiversity, Evolution.

Degrees:

Bachelor, MSc.: Kharkov State University, Kharkov, Ukraine, 1955 - 1960.

PhD (Candidate of Sciences) in Palaeontology and Stratigraphy

Thesis: Early Cretaceous Flora of Primorye (Far East) and Stratigraphic Applications. Institute of Geology, Acad. Sci. USSR, Moscow, 1965.

DSc (Doctor of Sciences) in Palaeontology and Stratigraphy.

Thesis: Palaeoecology of Terrestrial Plants and Stratigraphy of Continental Deposits. Institute of Geology and Geophysics, Acad.Sci. USSR, Siberian Branch, Novosibirsk 1973.

Professor in Palaeontology and Stratigraphy (the highest professional degree in the former USSR and Russia), Higher Attesting Commission, 1983.

Full Member of the Russian Academy of Natural Sciences, elected 1991.

Awards for Scientific Achievements:

Medal of International Organization of Palaeobotany (IOP) for Achievements in Palaeobotany and Ecology, 1993.

Hans Rausing Award for Outstanding Publications in Palaeontology - for the Monograph "Angiosperm Origins: Morphological and Ecological Aspects" Pensoft, Sophia, 1997

Positions:

1961 - 1971: Researcher in the Institute of Geology, Far-Eastern Branch, Acad. Sci. USSR, Vladivostok;

1971 - 1989: Head of Palaeobotany Lab., Head of Evolutionary Dep., Institute of Biology and Pedology, Far-Eastern Branch, Acad. Sci. USSR, Vladivostok.

1989 - 1994: Director of All-Union Institute of Nature Conservation, Ministry of Ecology, Moscow.

1994 - present: Head of Palaeobotany Dep., Palaeontological Institute, Russian Acad. Sci., Moscow.

Dec. 2001 - present: Professor, Head of Paleobotanical Laboratory of the Institute of Evolution, University of Haifa, Haifa.

Editorial Boards:

Review of Palaeobotany and Palynology, Elsevier, 1980 - 1998.

Cretaceous Research, Elsevier, 1993.

## **Palaeontological Journal, Russian Acad. Sci., 1994 - present**

Acta Palaeobotanica. Acad. Sci. Polon., 2000 - present

Teaching:

Courses in Palaeontology and Evolutionary Biology. Far-Eastern State University, Vladivostok, Russia, 1965 - 1980.

Lectures in Plant Morphology, Evolutionary Biology and Environmental Problems, Moscow State University, Moscow, Russia, 1991 - 2000.

Lectures in Palaeoecology and Global Environmental Change, University of Florida, Gainesville, U.S.A., 1996.

Lecturing Tour in Evolutionary Biology, Universities of Osaka, Kyoto and Tokyo, Japan, 1992.

Lectures on Ecosystem Evolution and Global Change, Haifa University, Israel, 2005.

Supervisor of 15 PhD students 4 DSc researchers in Palaeobotany, 1967 - 2001, MSc. and PhD students in Haifa University, Israel.

Supervision of PhD and MSc students in the University of Haifa, Israel, 2005 - present

Scientific Achievements:

- - Series of Monographs on Fossil Floras and Floristic Evolution in the Russian Far East, 1961 - 1990.
- - Discovery/first detailed systematic study of Fossil Plants in Siberia, Crimea, Kazakhstan, Mongolia, Mali, Israel, Lebanon, 1980 - present.

- - New Taxa: New Order of Heterosporous Plants *Heroleandrales*, 2000; New Order of *Proangiosperms* *Leptostrobales*, 1975; *Eoanthales*, 2005; *Dinophytales*, 2005; New Family of *Proangiosperms* *Dirhopalostachyaceae*, 1975; 47 New Species of Fungi, Pteridophytes, Gymnosperms and Angiosperms (1965 - 2004).
- - Centres of plant diversity in Russia defined and analysed in relation to geological history and climates.
- - New model of Angiosperm Origins by Parallel/Reticulate Evolution, including (1) the Proangiosperm Concept, advanced and substantiated with palaeontological data; (2) the Arogenic Community Concept, of biotic communities showing exceptionally high evolution rates and their environmental enhancers, exemplified by the novel plant assemblages with diverse proangiosperms in the Early Cretaceous of Transbaikalia, and (3) the Concept of Multiple Origination Centers, with one such center for angiosperm origins in eastern Asia studied in detail.
- - New reconstruction of Seed Plant Phylogeny based on geochronological sequences and transitional forms, showing periodic bursts of radiation as well as parallel development.
- - Initiation of modern studies in Plant Palaeoecology by advancing the methods and formulating the basic principles (1972 - 1975) that received recognition and stimulated numerous studies worldwide.
- - Initiation of pollination palaeoecology and plant - insect co-evolution studies using a new method of electronic microscopy of pollen grains preserved in gut contents of fossil insects (the Permian to Cretaceous). An outcome of these studies is a Hypothesis of Parallel Evolution by Microbial Gene Transfere facilitated by the insect pollination vectors (1985 - 2001).
- - New concepts and analytical methods in Ecosystem Evolution, including a method of quantitative assessment of biomass fluctuations over time. Functional advancement of ecosystems over time is measured by an increase of the biomass to dead mass ratio that is directly correlated with biological diversity. A new approach to estimating standing crop diversity is worked out, using the present day species/area correlations. An original model of biospheric crises is construed on the basis of evolutionary developments over the critical boundaries (the Permian/Triassic, Cretaceous/Tertiary, Eocene/Oligocene) involving the mutually interdependent palaeomagnetic, tectonic, eustatic and climatic events, their concerted impact on the terrestrial and marine ecosystems.
- - Analytical approach to Developmental/Evolutionary Parallelism of Natural Ecosystems and Human Ecosystems revealing General Regularities of Systemic Evolution.
- - First monographic study of a fossil floras of Israel, starting with the Late Cretaceous (Turonian) flora of Arava, southern Negev.
- - Discovery of Cretaceous mangrove vegetation in the Turonian of Arava, southern Negev.
- - First regional study of plant - insect interactions based on fossil egg sets, mines and galls from the Cretaceous of Makhtesh Ramon and Arava, southern Israel.

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<http://evolution.haifa.ac.il/index.php/28-people/publications/40-publications-va-krassilov>

## Publications V.A. Krassilov

### Books:

Krassilov, V.A. Early Cretaceous flora of South Primorye and its stratigraphic significance. Moscow: Nauka, 1967, 264pp. (Rus).

Krassilov, V.A. Mesozoic flora of Bureya River. Ginkgoales and Czekanowskiales. Moscow: Nauka, 1972, 152 pp. (Rus).

Krassilov, V.A. Palaeoecology of terrestrial plants. Basic methods and principles. Vladivostok: Acad. Sci. USSR, Far East Branch, 1972, 208 pp. (Rus).

Krassilov, V.A. Paleoecology of terrestrial plants. Basic Principles and techniques. N.Y. - Toronto: Wiley (Israeli Program of Scientific Translations, Jerusalem), 1975, 283 pp. (Engl).

Krassilov, V.A. Evolution and Biostratigraphy. Nauka, Moscow, 1976, 254 pp. (Rus).

Krassilov, V.A. Tsagajan flora of Amur Province. Moscow: Nauka, 1976, 92 pp. (Rus).

Krassilov, V.A. Cretaceous flora of Sakhalin. Moscow, Nauka, 1979, 182 pp. (Rus).

Krassilov, V.A. Early Cretaceous flora of Mongolia. Stuttgart, Palaeontographica, 1982, 181B, 43 pp. (Engl).

Krassilov, V.A. Cretaceous Period. Evolution of Earth Crust and Biosphere. Moscow; Nauka, 1985, 240 pp. (Rus).

Naidin, D.P., Krassilov, V.A. Pokhialaynen, V.P., Katz, Yu.I., Cretaceous Period. Palaeogeography and Palaeoceanology. Moscow: Nauka, 1985, 262 pp. (Rus).

Krassilov, V.A., Zubakov, V.A., Schuldiner, V.I., Remisovsky, V.I. Ecostratigraphy. Theory and Methods. Vladivostok: Acad. Sci. USSR, Far East Branch, 1985, 220 pp. (Rus).

Krassilov, V.A. Unsolved Problems of Evolutionary Theory. Vladivostok: Dal'nauka, 1986, 147 pp. (Rus).

Krassilov, V.A., Blokhina, N.I., Markevitch, V.S., Serova, M.Ya. The Cretaceous - Palaeogene of the Lesser Kuril Islands. Vladivostok, Acad. Sci. USSR, Far East Branch, 1988, 140 pp. (Rus).

Krassilov, V.A. Origin and early evolution of angiosperms. Moscow: Nauka, 1989, 263 pp. (Rus).

Krassilov, V.A. Nature Conservation: Principles, Problems, Priorities. Moscow: Inst. Nat. Cons., 1992, 173 pp. (Rus).

Ochev, V.G., Krassilov, V.A., Rautian A.S., et al. Palaeontology and Palaeoecology. Guide to terminology. Moscow: Nedra, 1995, 494 pp. (Rus., Ukr. Transl.).

Krassilov, V.A. Ecosystem and Ecosystem Evolution. Pensoft, Sofia, 1995, 172 pp. (Engl).

Krassilov, V.A. Angiosperm Origins: Morphological and Ecological Aspects. Pensoft, Sophia, 1997, 270 pp. (Engl).

Krassilov, V.A. Metaecology. Moscow: Palaeontol. Inst., 1998, 207 pp. (Rus).

Krassilov, V.A. Terrestrial Palaeoecology and Global Change. Pensoft: Sophia, 2003, 464 pp. (Engl).

Krassilov, V.A., Rasnitsyn, A.P. Plant - Arthropod interactions in the Early Angiosperm history. Pensoft, Brill, Sophia\_Moscow and Leiden - Boston, 2008, 229 pp. (Engl).

Krassilov, V.A. Cercidiphyllum and Fossil Allies: Morphological Interpretation and General Problems of Plant Evolution and Development. Pensoft: Sophia, 2010, 150 pp., 43 Plates.

#### Papers

1. Vakhrameev, V.A., Krassilov, V.A. 1961. The Domerian flora of Caucasus. Palaeontol. J. (Moscow), 3: 103-108 (Rus).

2. Krassilov, V.A. 1961. New data on the Cretaceous flora of Central Sikhote-Alin. Palaeontol. J. (Moscow), 3: 132-133 (Rus).

3. Krassilov, V.A. 1964. New gymnosperms from the Lower Cretaceous of Primorye. Palaeontol. J. (Moscow), 1: 114-119 (Rus).

4. Krassilov, V.A. 1964. On the genus Nathorstia (ferns). Palaeontol. J. (Moscow), 2: 115-120.

5. Krassilov, V.A. 1965. The Araucariaceae from the Lower Cretaceous of Primorye. *Palaeontol. J. (Moscow)*, 2: 109-117 (Rus).
6. Krassilov, V.A. Kalishevich, O.K. 1965. The Lower Cretaceous deposits of Khanka Lake, west bank. *Rpts. Far East Branch Acad. Sci. USSR*, 24: 77-80 (Rus).
7. Krassilov, V.A. 1965. New finds of angiosperms in the Lower Cretaceous of Primorye and their bearing on stratigraphy. *Sci. Repts. Acad. Sci. USSR*, 160 (6): 1381-1384 (Rus).
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