

AUTHOR GUIDELINES

I. General information

“Rastitelnye Resursy” Journal (ISSN 0033-9946) founded in 1965, is published under the aegis of the Branch of Biological Sciences of the Russian Academy of Sciences. The Journal is included in the list of the leading peer-reviewed scientific journals approved by the Higher Attestation Commission (VAK) for publishing main scientific results of the theses for the academic degrees of Candidate and Doctor of Science.

“Rastitelnye Resursy” is indexed in Chemical Abstracts Service (CAS). From 2010 it is indexed in Russian Science Citation Index (RSCI) and from 2016 in Russian Science Citation Index on the Web of Science™. The Journal publishes original articles and reviews on the wide scope of subjects: biology of resource species, their component composition and biological activity, assessment of plant resources of various wild useful plant groups, their handling and conservation, introduction of deserving species.

The Journal has 4 issues per year. Full-text versions are available at [eLIBRARY](#) (free access).

The Journal publishes articles in Russian and English.

The articles are published free of charge. No royalties are paid to the authors.

Manuscripts are accepted by the Editor for the review when the following set of materials and documents is provided:

- Electronically submitted complete manuscript including tables and figures.
- Full names, affiliations, positions, home addresses, telephone numbers and email addresses for all authors (specified email addresses are published in the Journal). The corresponding author is to be specifically stated.
- Single copy of License Agreement to use an article in a Russian-language scientific journal founded (cofounded) by the Russian Academy of Sciences. It can be downloaded from Akademkniga Publishers website ([License Agreement](#)). The License Agreement should be signed by all authors on a single hard copy.

The electronic version of a manuscript, including text, illustrations and figures and the scanned copy of the License Agreement signed by all authors should be submitted by e-mail to: plresources@mail.ru.

There is an option of online submission to “Rastitelnye Resursy” Journal via Pleiades Publishing portal online submission system. First-time users must create an Author's account at <https://publish.sciencejournals.ru>. All the further notifications on manuscript status and Editor's decision, reviewing and proof-reading will be carried out in Author's personal account.

Any questions regarding article submission may be addressed via e-mail to: plresources@mail.ru or by regular mail to: Komarov Botanical Institute RAS, “Rastitelnye resursy”, 2 Prof. Popova Str., St. Petersburg, 197376, Russia.

All submitted articles should comply with the Author Guidelines. The manuscripts not complying with these Guidelines and “Ethics Code of Scientific Publications” are not considered by the Editor. Manuscripts and illustrations are not returned to the authors. The articles and short communications submitted for publication should contain new experimental data or theories that have not been published previously.

II. Scope of the Journal

The “Rastitelnye Resursy” Journal publishes:

original research articles in the following fields:

- plant resources of specific countries and regions as well as vegetation types and plant formations, different types of natural acreages (forage lands, bee pastures, berrying grounds, etc.);
- resources of various groups of wild useful plants (medicinal, food, foraging, odoriferous, tanniferous, *etc.*) their handling and conservation;
- biology, morphology and anatomy of wild-growing and introduced plants - the sources of plant raw materials and biologically active compounds;
- structure and ecology of wild-growing resource plant species;
- primary introduction of species of practical importance;
- yield and seed productivity of the wild-growing and introduced resource plants;
- anthropogenic impact on plant populations and plant communities, wild-growing and cultivated plants useful properties and productivity;
- resource species component composition, identification and structure of natural compounds, their biosynthesis, content, dynamics of accumulation and chemical variability;
- biological activity (pharmacological properties, antibacterial, antifungal, antioxidative and other activities) of extracts, their fractions and isolates;
- description of the novel methods in resource characteristics and plant useful properties studies;
- analytical reviews on component composition and biological activity of plants, reviews on major problems of botanical resource studies.

The Journal also publishes:

- reviews on new books and monographs on wild-growing useful plants;
- chronicles of meetings, conferences, symposia;
- personalia (jubilees and dates, losses of science).

The Journal does not accept papers on standardization of raw materials, plant-growing, horticulture, etc.

III. Volume and structure of publication

The submitted manuscripts (including tables and references) should not exceed: original research papers and reviews – 35 pages, communications – 20 pages, chronicles and book reviews – 10 pages. The figures should not exceed 25% of the article size. Articles exceeding the recommended size are published by a special approval from the Editor.

If the primary language of the article is Russian for the structure of publication, please, follow author guidelines ("[Правила для авторов](#)") in Russian.

Articles submitted in English as a principal language, should maintain the following structure:

— Title

English title template:

DYNAMICAL MODELS OF TERRESTRIAL ECOSYSTEMS FOR QUANTITATIVE ASSESSMENT OF VEGETATION PRODUCTIVITY

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Bykhovets,² B. S. Petropavlovsky,⁴ I. V. Pripulina,² P. V. Frolov,² E. V.
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— Abstract (author's abstract, no subtitle, 10 pt)

— keywords (four at least, 10 pt)

— Introduction (no subtitle)

— Materials and methods

— Results and discussion

- Summary and conclusion
- Acknowledgments (example):

English acknowledgments template:

ACKNOWLEDGEMENTS

The present study was carried out within the framework of the institutional research project (n. 01201255610) of the Komarov Botanical Institute of the Russian Academy of Sciences and with the support from the research programme of the Division of Biological Sciences of the Russian Academy of Sciences «Biological resources of Russia: dynamics in conditions of global climatic and anthropogenic impacts».

- References

Methodological and review articles may have different structure.

Title of the article should be concise (8–10 words) and informative, clearly reflecting the content. Plant names should be written out as *italicized* Latin names, no authority stated, family is given in parentheses (in roman type).

Abstract should not exceed half a page, briefly outlining the subject and purpose of the article. Latin plant names should be followed by the names of the authors.

Body of text

INTRODUCTION should set the topic of the research, demonstrate current level of knowledge on the topic and its importance, and clearly state objective(s) for doing the research. The name of the studied object is given first as a common English name and followed by scientific binomial name in Latin with authority at first mention in the text. Subsequently the common name is given in full and in Latin name genus should be abbreviated to the first letter (for example, Scots pine, but *P. sylvestris*), no authority stated. The introduction should not exceed the 1/4 of the manuscript.

MATERIALS AND METHODS. The section should describe location and period of the studies, origin and volume of the studied materials, provide brief description of the habitats and plant communities stating syntaxa names (for the wild-growing species) or cultivating environment, identify the research methods. For the commonly used methods, the brief description is sufficient, if the references to the publication(s) with details of the used method are given. In case the methods

are new, less common, or were modified, they are to be explained in enough detail, that other research teams can replicate them. It is necessary to state the sample size and number of measurement replicates. Statistical methods should be applied to quantitative data. The choice of methods should be explained.

RESULTS AND DISCUSSION. The section should objectively report the obtained results (including major quantitative evaluations) providing references to incorporated tables and figures, their detailed analysis and discussion, involving the relevant data from other publications. The text should not duplicate the content of tables.

Presenting evaluation data on biological activity of the studied object(s), is necessary to provide information on composition and methods of obtaining, acute toxicity of each of the studied objects, results of the reference substance evaluation for each type of activity, rationale for the doses used for each of the studied substances.

SUMMARY AND CONCLUSION. The section should deliver main theoretical and practical conclusions based on the results presented in the article (including major quantifications), or summarize major results, which should be in a full accord with the article content.

ACKNOWLEDGEMENTS. This section should acknowledge any individuals or employees of research institutions, organizations and funds who provided help during research and article preparation. The list of the research funding sources with full official names of the funding agencies and programmes is given in this section.

On a last separate page of the manuscript information about each author is given: family name, full given and patronymic names, academic degree and title (if applicable), institutional affiliation, mailing address (institutional or home), telephone number and email address.

IV. File requirements and text formatting

Files. Text and images (drawings, photographs, graphs, diagrams, maps) are to be submitted to the Editor as separate files. Submission of the archived files is not encouraged. Submission of self-extracting EXE-files is unacceptable.

Text. The preferred format for text is Word for Windows. Manuscript is submitted as DOC(X). or RTF file. The document should be in 12pt Times New Roman with 1.5 line spacing (no extra spacing before or after paragraphs), no underlining; black on white background (“auto”); the width of margins: top and bottom – 2 cm, left – 3 cm, right – not less than 1 cm. The manuscript should have consecutive page numbering.

The formatted text should not contain:

- any text styles other than "Normal" (italicizing, bolding, etc. should be done manually);
- extra word spacing, non-breaking spacing;
- interspaced text;
- hyphenation;
- hyperlinks (to prevent automatic hyperlinks and other formatting convert copied fragment into TXT before pasting);
- macros.

Latin plant names including authors' names should be standardized according to *International Plant Names Index (IPNI)* or *The Plant List*. Taxon names below the rank of family are *italicized*. Authors' names, names of taxa at the level of family or above and the names of syntaxa are given in roman type. *Italics* is also used for Latin terms (*in vivo*, *in vitro*, *in situ*, *ad libitum*, *a priori*, *a posteriori*, *de novo*, etc.) and prefixes of chemical systematic substance names (*cis-*, *trans-*, *ortho-*, *meta-*, *para-*, etc.). In chromosome numbers lowercase 'n' is *italicized*: $2n = 18$.

All physical quantities should be expressed in SI units. Use the period, not a comma, as a decimal separator. Special symbols of degree «°C», number «№», plus-minus «±» are separated from digits by single space.

Digital intervals are joined by unspaced dash. The units of the intervals are given at the end and separated by single interval: 5 and 10%, 15–20 million tons, 20 000–25 000 °C.

Representation of analytical, chromatographic and spectral data should comply with the guidelines of the leading Journals on chemical disciplines, e.g. Journal of Analytical Chemistry or Journal of Chromatography A, and others.

The titles of administrative subjects of the Russian Federation in Russian and English should be given according to *Chapter 3 ("The Federal Structure")* of the Constitution of the Russian Federation with relevant amendments.

Only commonly recognized abbreviations should be used. All abbreviations should be explained at the first mention. Names of the institutions, organizations, etc., should be given in full at the first mention followed by the abbreviation in parentheses. Thereafter the abbreviation can be used alone: e.g. Komarov Botanical Institute, RAS (BIN RAN), later - BIN RAN.

The articles should be carefully checked for mistakes, proofread and edited by the authors prior to submission.

Tables should be placed each on separate page at the end of the article. Tables are numbered consecutively with Arabic numerals throughout the paper in the order they first appear in the text (e.g. TABLE 1); when citing table in the text, abbreviation is used (tab. 1).

The table title should clearly describe its content.

Plant names in table titles, column and row headings and cells should be given as Latin binomial names, no indication of authorship. In columns, the words repeating in consecutive cells are replaced with quotation marks. All figures in the tables should have the correct number of significant digits after the decimal point (see: [Zenkevich, 2010](#)). All abbreviations and symbols used in table should be defined in the footnote.

Table template:

Table 1.

Table title in English

Column title in English	Column title in English	Column title in English

Note.

Figures. All illustrations such as charts, drawings, diagrammes, graphs, maps, photographs, photo plates and structural formulas of chemical compounds in the text are referred to as figures. All figures must be consecutively numbered with Arabic numerals throughout the paper and submitted as separate files.

It is recommended to submit bitmap images (black-and-white and color photographs, diagrams) as JPEG files (quality not lower than 10), though TIFF files with a resolution of at least 300 dpi (for color photographs and drawings) or 600 dpi (for black-and-white and grayscale images) are acceptable. The recommended formats for vector drawings and diagrams are EPS or CDR.

All figures should have references in the text of the article (fig. 1, fig. 2), photo plates are referenced with Roman numerals (tab. I, tab. II).

The recommended width of images is 6.5 or 12.5 cm. Maximum permitted size of images and photo plates is 12.5×20 cm. Photographs should be rectangular in shape.

Photographs should be provided in a print quality at the best resolution available as they are not enhanced by the journal production staff. Low quality photographs, carbon copies or images embedded in the text are not accepted. The microphotographs should have internal scale bars.

The maps should be provided with grid, scale-bar, indicated settlements and/or geographical features. The large-scale maps may have small-scale inserts. The maps should be on the white background with distinct black unbroken lines.

Diagrams should be illustrative, but not overloaded with information. They should not duplicate text, tables and graphs.

All details marked on the figures should be labelled with Arabic numerals or lower-case Latin letters and explained in captions. All indications of the graphs (X and Y axes labels and units) should be given in captions. For example: X-axis – leaf pollution index, arb. unit; Y-axis – leaf width, mm.

Structural formulas of chemical compounds should be compiled using packages ChemDraw, ChemWindow, ISIS, etc. and submitted as TIFF files.

Mathematical formulae should be typed using the MS Word Equation formula editor. All symbols should be explained immediately after the formula.

All figures are submitted without captions. All figure captions are embedded in the text file as a separate page after the tables, indicating author and title of the article in the heading.

Template for figure captions:

Figure captions for the article by Ivanov I.I. “TITLE OF THE ARTICLE”

Fig. 1. Cultivated *Costaria costata* from hanging plantation of South Primorye.

Fig. 2. Depth distribution of *Costaria costata* in coastal zone of Primorye.

X-axis – years; *y-axis* – frequency, %.

Fig. 3. *Costaria costata* sporiferous tissue in June 2010 (magnification x 620).

1 – sporangium, 2 – paraphysis.

Literature citing and list of references

Each piece literature or other referenced information cited within the text is identified by a unique Arabic number and enclosed in square brackets. The numbers are assigned in the order of citation. The same citation number must be used in the list of references. To cite together multiple references list them in brackets chronologically and use a comma to separate a series of non-inclusive numbers and a hyphen to indicate a series of inclusive numbers.

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All references mentioned in the text should be listed in section titled "REFERENCES" in the same order as they were cited in the text. It is not allowed to cite dissertations and strongly recommended to avoid references to abstracts, as well as self-citations. In REFERENCES section only references mentioned in the text should be listed. The Editor's office is not responsible for the completeness and accuracy of bibliographical references.

Templates for literature citing:

— books, monographs and author's abstracts:

1. *Gears G.I.* 1982. [Physiology of the weakened tree]. Novosibirsk. 255 p. (In Russian)
2. *Pahlow M.* 1998. Das große Buch der Heilpflanzen [Encyclopedia of medicinal plants]. Transl. from Germ. Moscow. 467 p. (In Russian)
3. [Plant Resources of Russia: Wild flowering plants and their component composition and biological activity. Family Caprifoliaceae — Lobeliaceae]. 2011. Vol. 4. St. Petersburg; Moscow. 630 p. (In Russian)
4. *Pimenov M.G.* 1983. [Parsley family (Umbelliferae = Apiaceae) of Central Asia and Kazakhstan: Abstr. ... Dis. Doct. (Biology) Sci.]. Moscow. 46 p. (In Russian)
5. *Dictionary of generic names of seed plants.* 1995. New York. 500 p.

—book chapters, articles in collected volumes or conference proceedings:

6. *Júnióf F., Coleta M., Simões S., Paranhos A.* 2001. Chemical composition and cytotoxic activity of *Hypericum perforatum* L. extract. — In: World Conf. on Med. and Aromat. Plants. Budapest, Hungary: P. 281.
7. *Thiele J., Otte A., Eckstein R.L.* 2007. Ecological needs, habitat preferences and plant communities invaded by *Heracleum mantegazzianum*. — In: Ecology and management of giant hogweed (*Heracleum mantegazzianum*). Wallingford; Cambridge. P. 126–143.

— articles in periodicals:

8. *Bräuchler C., Meimberg H., Heubl G.* 2006. New names in Old World *Clinopodium* — the transfer of the species of *Micromeria* sect. *Pseudomelissa* to *Clinopodium*. — *Taxon*. 55(4): 977–981. <https://doi.org/10.2307/25065692>.
9. *Melin D.* 1974. Study of the flavanols in some species with winding branches. — *Ann. Sci. Univ. Besancon Bot.* 15: 139–143; *Chem. Abstr.* 1976. 85, 156 619.

When an article has DOI (digital object identifier), it should be added at the end of the entry. If the article is cited from the Chemical Abstracts, the reference to it is given after the semicolon stating year, volume and the number of the abstract (see example).

Titles of the periodicals are cited and abbreviated according to the standards set in the second edition of *Botanico-Periodicum-Huntianum*, or in bibliographic database *Web of Science Help*.

— Patents:

10. *Fujimoto Y.* 1994. Panaquinquecols of *Panax quinquefolium* and their use as anticancer agents. Japan Kokai Tokyo Koho. 9 p. Japanese Patent: JP 06009418 A2 19940118 Heisei.

Internet and other digital resources should be cited in REFERENCES section like any other source of information. If the article in online journal does not have volume, page or other information, the identification number (ID) or article number (Art. no) should be given. Information without permanent Internet address (e.g. news feed) should not be quoted.

— on-line digital resources:

11. *Australian Virtual Herbarium* 2010. <http://avh.ala.org.au>.
12. *Brummitt R.K.* 2001. World geographical scheme for recording plant distributions. Ed. 2. Pittsburgh. 137 p. http://www.nhm.ac.uk/hosted_sites/tdwg/TDWG_geo2.pdf.
13. *Bungaruang L., Gutmann A., Nidetzky B.* 2015. β -Cyclodextrin improves the solubility and enzymatic C-glucosylation of the flavonoid phloretin. *Adv. Synth. Catal.* <http://dx.doi.org/10.1002/adsc.201500838>.
14. *IPNI: The International Plant Names Index.* 2012. <http://www.ipni.org> (Accessed 12.12.2012).
15. *Ferrazzano G.F., Roberto L., Catania M.R., Chiaviello A., De Natale A., Roscetto E., Pinto G., Pollio A., Ingenito A., Palumbo G.* 2013. Screening and scoring of antimicrobial and biological activities of Italian vulnerary plants against major oral pathogenic bacteria. — *Evid. Complement. Alternat. Med.* Article ID 316280. <http://dx.doi.org/10.1155/2013/316280>.
16. *Zhang Y.L.* 2006. Pharmacological study on active fraction and study on chemical constituents of *Dryopteris fragrans* (L.) Schott.: PhD Thesis. www.dissertationtopic.net/doc/1602772
17. *Zhang L.-B., Iwatsuki K.* Lycopodiaceae. http://www.efloras.org/florataxon.aspx?flora_id=2&taxon_id=10527.
18. *Zuo Z.X., Wang Y.J., Liu L., Wang Y., Mei S.H., Feng Z.H., Wang M., Li X.Y.* 2015. Huperzine A alleviates mechanical allodynia but not spontaneous pain via muscarinic acetylcholine receptors in mice. *Neural Plast.* Article ID. 453170.

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For transliteration of Russian names it is recommended to use transliteration service at <http://translit-online.ru/> with following settings: ё — yo, й — j, x — always kh, ц — ts, щ — shch, э — e.

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— books, articles in collected volumes and author's abstracts:

1. *Volkov A.D.* 1999. [Comparative evaluation of the ecological role and biological specificity of indigenous and secondary forests of the northwest Russian taiga]. In: [Primeval forests in the European taiga zone: the present state and conservation problems. Review of the proceedings of the international scientific and practical conference]. Petrozavodsk. P. 9–16. (In Russian)

— articles in periodicals:

2. *Stupnikova T.V.* 2018. Biological characteristics of the seeds of rare and endangered plant species of the southern Russian Far East. — *Rastitelnye resursy*. 54(1): 5–25. (In Russian)
3. *Tamamshyan S.G.* 1944. On the Systematics of the Genus *Euphorbia* of the Transcaucasus. — *Proceedings of the Akademy of Sciences of the Armenian SSR*. 1–2: 43–47. (In Russian)

V. Editorial processing

The received manuscripts are registered. Submissions that, in the judgement of Editorial board, comply with the scope of journal and essential guidelines are sent for the review. The Journal adopts single blind review scheme. Upon submission, authors may provide the names of colleagues with whom they have a conflict of interests.

The receipt date will be recorded as the date the initial manuscript is received by the Editor's office. If there are any comments from the reviewers, the article is sent back to the authors for improvement. When modifications are required, the author should address all the reviewers' comments and make necessary improvements, or provide clear reasons for the refusal. The

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Proofs are sent to the corresponding author as PDF file by email. Proofs should be made directly in the sent PDF file. Proofs should be checked for printing errors and promptly returned to the Publisher within 3 days upon receipt of the proofs. Only minor errors should be corrected.

If a submitted article is not in compliance with the scope of the Journal, received negative reviews or was rejected by the Editorial board, the authors will be notified by the Editor.