

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.
- One paper copy of the manuscript signed by all authors.
- 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 [Exclusive License Agreement](#) signed by all authors (agreement form is available for download at Nauka Publishers website).

Paper copies of the manuscript and [Exclusive License Agreement](#) should be addressed to: “Rastitelnye Resursy”, St Petersburg publishing house Nauka, 1 Mendeleevskaya liniya, St. Petersburg, 199034, Russia. The scanned copy of the [Exclusive License Agreement](#) signed by all authors could be e-mailed to: main@nauka.nw.ru (in the Subject field indicate: Attn: Rastitelnye Resursy)

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.

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 plants;
 - ethnobotany (traditional medicine, national-specific plant use);
 - anthropogenic influence on plant populations and plant communities, wild-growing and cultivated plants useful properties and productivity;
 - 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;
 - 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.

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

III. Requirements for the content of publications

The articles and short communication submitted for publication should contain new experimental data or theories that has not been published previously.

Latin plant names including authors' names should be standardized according to

[International Plant Names Index \(IPNI\)](#) or [The Plant List](#). The titles of administrative subjects of the Russian Federation in English should be given according to [Chapter 3 \(“The Federal Structure”\)](#) of the Constitution of the Russian Federation with relevant amendments.

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

All physical quantities should be expressed in SI units. Use the period, not a comma, as a decimal separator.

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 contributions of the Russian authors submitted in English should be supplemented with Russian text. Discrepancy between Russian and English versions are not allowed.

IV. 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 size of the article. 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.

If the primary language of the article is English, the submission should have the following structure:

- TITLE
- given name initials and family name(s) of the author(s)
- institutional affiliation(s) of the author(s)
- E-mail of the corresponding author
- Summary (author’s abstract, no subtitle)
- keywords (four at least)
- INTRODUCTION (no subtitle)
- MATERIALS AND METHODS
- RESULTS AND DISCUSSION

— CONCLUSION

— ACKNOWLEDGEMENTS

— REFERENCES

— On a last separate page of the manuscript state for each author: 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.

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).

If there are several authors, use asterisk to identify corresponding author, who is responsible for communicating with the editorial office until the article is published. Each author should provide full official name of the institutional affiliation including parent organization, city and country both in Russian and English. The names of the department, laboratory or other structural unit within the organization should not be indicated. Abbreviations are allowed only with full names of the organizations. Abbreviations determining type and status of the organizations (FPFIS (FBGUN) - Federal Publicly Funded Institution of Science, FSEI (FGOU) - Federal State Educational Institution, etc.) should not be used in the names of the institutions. For example: Komarov Botanical Institute RAS, St. Petersburg, Russia. If the authors work in different institutions, use superscript numbers following author names and preceding institution name to associate each author and the appropriate affiliation.

V. Manuscript formatting requirements

Text and images (drawings, photographs, graphs, diagrams, maps) are to be submitted to the Editor as separate files.

The manuscript is submitted as Word *.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. *Italics* is used only for taxon names below the rank of family. Authors' names, names of taxa at the level of family or above and the names of syntaxa are given in roman type.

The formatted text should not contain:

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

Template for the articles submitted in English:

CREATING A RESOURCE MAP OF *LEDUM PALUSTRE* (ERICACEAE)
BASED ON GIS TECHNOLOGY

© *D. G. Grummo*,¹ *O. V. Sozinov**^{2,3}

¹Kuprevich Institute of experimental botany of

Belarus National Academy of Sciences, Minsk, Republic of Belarus

²Komarov Botanical Institute of the Russian Academy of Science, St. Petersburg, Russia

³Yanka Kupala State University of Grodno, Republic of Belarus

*E-mail: ledum@list.ru

Summary

Keywords

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 genus in Latin name should be abbreviated to the first letter (for example, Scots pine, but *P. sylvestris*). The introduction should not exceed the 1/3 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 (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. If needed, the

maps of expedition routes and schemes for experiments are given. It is necessary to state the sample size, number of measurement replicates and estimated probability of difference.

RESULTS AND DISCUSSION. The results of the study should be reported in the same order as the goals and objectives were set in the INTRODUCTION. 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. 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 study substance and choice of the methods used for statistical processing of the results. The text should not duplicate the content of tables.

CONCLUSIONS. The section should summarise the main results and conclusions of the study (including major quantifications), which should be in a full accord with the article content.

ACKNOWLEDGEMENTS. This section should acknowledge any individuals or employees of research institutions 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.

ACKNOWLEDGEMENTS

The present study was carried out within the framework of the state assignment № 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 under conditions of global climatic and anthropogenic impacts».

Tables should be submitted on separate pages and 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, abbreviate it (tab. 1). If an article has only one table, do not number it (see table). In a hard copy of the manuscript, the desired position of each table should be marked on the left margin (after the first mention in the text).

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. 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). All figures are submitted without captions (all figure captions should be embedded in the text file as a separate page).

It is recommended to submit bitmap images (black-and-white and color photographs, diagrams) as *.jpg files (quality not lower than 10); *.tif 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.

The recommended width of images is 6.5 or 12.5 cm. Maximum permitted size of images and photo plates is 12.5 x 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.

All details marked on the figures should be labelled with arabic numerals or lower-case Latin letters and explained in captions.

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

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

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.

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

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.

Hard copy illustrations should be identified on the back in light pencil with the figure number, authors' names and article title. In a hard copy of the manuscript, desired position of each figure should be marked on the left margin (after the first mention in the text).

Literature citing and list of references

In-text citations are given in parentheses, stating family name(s) of author(s) or the first word of the title and a year of publication. If there are more than two authors, use the first author's name followed by 'et al.' Several references are cited in chronological order of publication e.g.: (Kurochlina, 1973a, б; Lazareva et al., 2005; Rastitelnyye..., 2007; Lokk, 2015; Cronk et al., 2015; DellaFerrara, Vegetti, 2015). If a direct quotation from an author is used, it should be enclosed in quotation marks and page number(s) that the quotation was taken from are given (Yuzepchuk, 1945: 8–9).

All references mentioned in the text should be listed in Latin alphabetical order on a separate page in section titled "REFERENCES". It is strongly recommended to avoid references to abstracts and dissertations, as well as self-citations.

If the primary language of the article is Russian, examples of literature citing see in ["Правила для авторов"](#).

Each bibliographical entry has the following structure:

— books, monographs and author's abstracts (if absolutely necessary): the names of all authors with initials (or the title of the publication), year of publication, title, city of publication, number of pages. Publishing house is not indicated. When a book has DOI (digital object identifier) or permanent Internet address, it should be added at the end of the entry.

Examples:

Dictionary of generic names of seed plants. 1995. New York. 500 p.

Vromans J. 2006. Molecular genetic studies in flax (*Linum usitatissimum* L.): PhD Thesis. Wageningen. 25 p. <http://edepot.wur.nl/22222>.

— book chapters, articles in collected volumes or conference proceedings: the names of all authors with initials, year of publication, title of publication followed by the title of the book preceded by the remark «In:». Then the city of publication, volume number and page numbers (from-to) are given. When a chapter or article has DOI (digital object identifier), it should be added at the end of the entry.

Examples:

Júniof 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.

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. <http://dx.doi.org/10.1079/9781845932060.0126>.

— articles in periodicals: the names of all authors with initials, year of publication, title of the article, title of the journal, separated from the article title by the emdash (—) (Ctrl-Alt-Num-), volume, number or issue in parentheses (abbreviations "T.", "Vol.", "N.", "Iss.", etc. are elided) followed by the colon and page numbers (from - to). 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](#).

Examples:

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>

Melin D. 1974. Study of the flavanols in some species with winding branches. — *Ann. Sci. Univ. Besancon Bot.* 15: 139–143; *Chem. Abstrs.* 1976. 85, 156 619.

Patents:

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. Structure of the reference is the same as with hard copy editions. For databases it is recommended to state date of last modification. 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.

Examples:

Australian Virtual Herbarium 2010. <http://avh.ala.org.au>

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

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>

IPNI: The International Plant Names Index. 2012. <http://www.ipni.org> (Accessed 12.12.2012).

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>

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

Zhang L.-B., Iwatsuki K. Lycopodiaceae. http://www.efloras.org/florataxon.aspx?flora_id=2&taxon_id=10527

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.

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.

If an article, originally published in Cyrillic, has a published alternative title in Latin script, authors' names are transliterated and title in Latin script is given as in publication. If there is no previously published alternative Latin title available, authors' names, title of the article, full title of the journal or other periodical, or a complete title of a book or a collection volume are transliterated. After the transliterated title of the article, translation of the title is given in square brackets. For the books and collection volumes the full name of the city of publication should be provided. Page numbers are given at the end of the reference. The language of the original publication is stated after the page numbers in parentheses e.g. (In Russian, In Ukrainian, etc.) Foreign materials originally published in non-Latin scripts are given in English translation.

For	transliteration	from	Russian	follow	this	chart:
а	— a		п	— p		
б	— b		р	— r		
в	— v		с	— s		
г	— g		т	— t		
д	— d		у	— u		
е	— e, ye (in the beginning, after vowels and letters Ъ, Ь: yelnik, izmereniye, syezd)		ф	— f		
ё	— e, ye (in the beginning, after vowels and letters Ъ, Ь: obyem, vodoyem)		х	— kh		
ж	— zh		ц	— ts		
з	— z		ч	— ch		
и	— i		ш	— sh		
й	— y		щ	— shch		
к	— k		ъ	— elided		
л	— l		ы	— y		
м	— m		ь	— elided		
н	— n		э	— e		
о	— o		ю	— yu		
			я	— ya		

Combination of Russian «кс» letters is transliterated as «ks», not «x».

Examples of transliteration and translation of literature published in Cyrillic

— books, articles in collection volumes and author's abstracts and dissertations (if absolutely necessary):

Gears G. I. 1982. Fiziologiya oslablennogo dereva [Physiology of the weakened tree]. Novosibirsk. 255 p. (In Russian)

Pahlow M. 1998. Entsiklopediya lekarstvennykh rasteniy [Das große Buch der Heilpflanzen]. Transl. from Germ. Moscow. 467 p. (In Russian)

Rastitelnye resursy Rossii: Dikorastushchiye tsvetkovyye rasteniya, ikh komponentnyy sostav i biologicheskaya aktivnost. 2011. T. 4. Semeystva Caprifoliaceae–Lobeliaceae [Plant Resources of Russia: Wild flowering plants and their component composition and biological activity. Vol. 4. Family Caprifoliaceae–Lobeliaceae]. St. Petersburg; Moscow. 630 p. (In Russian)

Stavrova N. I. 2012. Struktura populyatsiy osnovnykh lesoobrazuyushchikh vidov na Yevropeyskom severe Rossii: Avtoref. dis. ... dokt. biol. nauk [Structure of the main forest species populations in the north of European Russia: Abstr. ... Dis. Doct. (Biology) Sci.]. St. Petersburg. 39 p. (In Russian)

Volkov A. D. 1999. Sravnitel'naya otsenka ekologicheskoy roli i biologicheskoy spetsifiki korennykh i proizvodnyikh lesov severo-zapada taezhnoy zony Rossii [Comparative evaluation of the ecological role and biological specificity of indigenous and secondary forests of the northwest Russian taiga]. In: Korennyie lesa taezhnoy zony Yevropy: sovremennoye sostoyaniye i problemy sokhraneniya. Materialy mezhd. nauch.-prakt. konf. Petrozavodsk. P. 9–16. (In Russian)

— articles in periodicals:

Gorshkov V. V., Stavrova N. I. 2002. The age structure of populations of *Pinus sylvestris* (Pinaceae) in northern taiga pine forests with different prescription of fire. — Rastitelnye resursy. 38(1): 3–24. (In Russian)

Tamamshyan S. G. 1944. K sistematike molochayev Zakavkazya [On the systematics of Transcaucasian spurge]. — Doklady Akademii Nauk Armyanskoi SSR. 1–2: 43–47. (In Russian)

VI. 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 improved manuscript including response to the referees' comments, must be returned via e-mail to the Editor's office within 3 months of the receipt by the author, otherwise the initial date of the registration is cancelled, and the manuscript is considered as new submission.

The decision to accept or reject a manuscript is made by the Editor considering the referees' opinion. The Editor of the Journal reserves the right to shorten and edit both the text and the title.

Proofs are sent to the corresponding author as *.pdf file by email. Proofs should be checked for printing errors and promptly returned to the Publisher within 3 days upon receipt of the proofs to the following address: periodika@nauka.nw.ru (in the Subject field indicate: Attn.: Journal "Rastitelnye Resursy"). 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.