### **RULES FOR AUTHORS**

# Journal "Modern high technologies"

The journal publishes works in the following scientific fields and related areas of science:

### TECHNICAL SCIENCES

#### 1.2. COMPUTER SCIENCES AND INFORMATICS

1.2.2. Mathematical modeling, numerical methods, and software packages (technical sciences)

### 2.3. INFORMATION TECHNOLOGIES AND TELECOMMUNICATIONS

- 2.3.3. Automation and control of technological processes and production (technical sciences)
- 2.3.4. Management in organizational systems (technical sciences)
- 2.3.5. Mathematical and software support for computing systems, complexes, and computer networks (technical sciences)

### 2.5. MACHINE BUILDING

- 2.5.3. Friction and wear in machines (technical sciences)
- 2.5.5. Technology and equipment for mechanical and physical-technical processing (technical sciences)
- 2.5.7. Pressure processing technologies and machines (technical sciences)
- 2.5.8. Welding, related processes and technologies (technical sciences)

#### **5.8 PEDAGOGICAL SCIENCES**

- 5.8.1. General pedagogy, history of pedagogy and education (pedagogical sciences)
- 5.8.2. Theory and methods of teaching and education (by field and level of education) (pedagogical sciences)
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- 1.8. **Figures and formulas:** Figures should be of good quality and suitable for printing. Each figure should have a caption (below the figure) explaining all its elements. References to sources should be provided. Figures can be submitted in the following formats: .tif, .bmp, .jpeg, .wmf, .cdr; diagrams and graphs in the following formats: .xls, .xlsx (Microsoft Excel formats).
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Concept development	Formulation of the idea; formulation of research goals and tasks
Working with data	Annotation (creation of metadata),

	accumulation of research data for
	initial use and for subsequent
	reuse
Data analysis	Application of statistical, mathematical, or other
•	formal methods to analyze or synthesize research data
	research
Fundraising	Obtaining financial support for a project that led to the
1 what who had	writing of a publication manuscript
Conducting research	Conducting the research process, in particular, conducting
Conducting research	experiments or collecting data/evidence
Descend methodology	
Research methodology	Developing or designing research methodology; creating a
4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	model
Administrative management of a	Responsibility for managing and coordinating the planning
research project	and implementation of research activities
Provision of resources	Providing access to materials, reagents, substances,
	laboratory samples and animals, equipment, computing
	resources, other analytical tools necessary for the research,
	as well as ensuring patient participation in the research
Software development	Programming, development, and design of software; writing
•	program code and implementation of supporting algorithms;
	testing existing code components
Scientific supervision	Supervision and guidance of the planning and execution of
	research activities, including mentoring
Validation of results	Verification of the reproducibility of experimental and
variation of legales	research results within the framework of primary or
	secondary research tasks
Visualization of results	
v isualization of fesuits	Creating and preparing a manuscript: visualizing research
XX 1.2. 1. C.	results and data obtained
Writing a draft manuscript	Preparing and creating a draft manuscript: writing
	the initial text of the manuscript, including its translation into
	a foreign language
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An example of article formatting is provided in Appendix No. 1.

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APPENDIX 1

### ARTICLE FORMATTING TEMPLATE

UDC 621.771.014.2 is formed according to the content of the article

# STUDY OF THE ANTI-FRICTION PROPERTIES OF ROLLING LUBRICANT FOR ALUMINUM ALLOYS BY THE METHOD OF LIMIT COMPRESSION

(The title should not contain abbreviations) \* type of publication (type of article)

<sup>1</sup> Ivanov Yu.G., <sup>1</sup> Petrov E.L., <sup>2</sup> Sidorov E.V. ORCID ID of authors

<sup>1</sup> Federal State Budgetary Educational Institution of Higher Education "Saratov State University", Russia, Saratov,

e-mail: corresponding author(\*)

The abstract should be 150-250 words long.

The structure of the abstract should mirror the structure of the article, with an introduction of 1–2 sentences (describing the research problem without references). The following must be included: the purpose, a brief summary of the "materials and methods" section, data from the "results and discussion" section without numerical data, namely: what was determined/obtained/compared and why. The "Conclusion" section: a brief summary reflecting what is important in the study. Abbreviations are not allowed.

Keywords: coefficient, friction, rolling lubricant, rolling, grip angle, limit compression method, aluminum alloys. *Keywords should not contain abbreviations*.

**Acknowledgements:** 

# STUDY OF ALUMINUM ALLOY ROLLING OIL ANTIFRICTION PROPERTIES BY ULTIMATE REDUCTION METHOD

<sup>1</sup> Ivanov Yu.G., <sup>1</sup> Petrov E.L., <sup>2</sup> Sidorov E.V. ORCID ID of authors

<sup>&</sup>lt;sup>2</sup> Federal State Budgetary Educational Institution of Higher Education "Kazan State University", Kazan

<sup>\*</sup> The following information should also be provided when submitting an article by e-mail: type of publication (type of article), academic degree, academic title, position, e-mail of ALL authors in Russian and English, authors' contributions

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The structure of the abstract should repeat the structure of the article, the introduction 1-2 sentences (as a designation of the research problem without references), the purpose must be indicated, the section "materials and methods of research" is short, data from the section "results and their discussion" is given without numerical data, namely: what and why was determined / obtained / compared. Section "Conclusion": a short summary reflecting what is important in the conducted research.

The volume of the abstract is 150-250 words.

**Acknowledgements:** 

Keywords: coefficient, friction, rolling lubrication, rolling, gripping angle, method of ultimate compression, aluminum alloys.

Introduction [Text]
Purpose of the study [Text]
Materials and methods [Text]
Research results and discussion [Text]
Table 1
Title before table data
Below the table: Note: compiled by the authors based on data obtained during the study $/$ compiled by the authors based on $source(s)[X]$
$Fig. \ 1. \ Title \ - \ below \ the \ figure. \ Note: compiled \ by \ the \ authors \ based \ on \ the \ results \ of \ this \ study \ / \ compiled \ by \ the$
authors based on source(s) [X]

**Conclusions** [Text] - this section may be omitted; no references are given in this section.

**Conclusion** [Text]—no references are provided in this section.

# **Bibliography**

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**Conflict of interest Conflict of interest** 

Financing **Financing** 

<sup>\*</sup>Contribution of each author (clause 1.13)

\* Additional information to be provided when submitting an article by e-mail: academic degree, academic title, position, e-mail addresses of ALL authors in Russian and English, authors' contributions

**APPENDIX 2** 

## SAMPLES OF REFERENCE FORMAT FOR THE REFERENCE LIST

## **Articles from journals**

Author(s) (all authors should be listed). Article title: information related to the title // Journal title. Year of publication. Issue number. Pages. Reference to the original source - the journal's website with the article posted or it is permissible to indicate a reference to an electronic scientific library if the journal does not have a website. DOI if available or EDN if available.

Nechay E.E., Sinenko A.A. Communication between students and teachers in virtual space: questions of priorities// Society: sociology, psychology, pedagogy. 2022. No. 12 (104). pp. 299-303. URL: https://sciup.org/149141856 (accessed: hh.mm.yyyy). DOI: 10.24158/spp.2022.12.46

Bazhenova I.V., Klunnikova M.M., Pak N.I. Intellectual model for assessing the level of the computational-algorithmic component of students' computational thinking // Informatics and Education. 2022. Vol. 37. No. 4. P. 71–79. DOI: 10.32517/0234-0453-2022-37-4-71-79.

## **Articles from online journals**

Author(s) (list all authors). Article title: information related to the title // Journal title. Year of publication. Issue number. Link to the original source - the journal's website where the article is posted. DOI if available or EDN if available.

Ershikov S.M., Ivanova I.V. Monitoring the level of residual knowledge of medical university students // Yaroslavl Pedagogical Bulletin. 2017. No. 5. URL: https://vestnik.yspu.org/releases/2017\_5/28.pdf (date of access: hh.mm.yyyy).

Smolentseva T.E., Sumin V.I., Kravchenko A.S. Development of a learning management algorithm with determination of the number of control checks of the trainee // Bulletin of the Voronezh Institute of the Federal Penitentiary Service of Russia. 2018. No. 1. URL: https://vi.fsin.gov.ru/upload/territory/Vi/nauchnaja\_dejatelnost/Becthuk/\_v\_fsin\_2018\_1.pdf (accessed: hh.mm.yyyy).

#### Description of English-language journals and collections

Last Name, First Name. Article Title. Journal Name. Year Published, Volume Number, Issue Number, Page Numbers. DOI:...
Held S., Spirkl S.T. Binary Adder Circuits of Asymptotically Minimum Depth, Linear Size, and Fan-Out Two // ACM
Transactions on Algorithms (TALG). January 2018. Vol. 14. Is. 1. №. 4. P. 1 – 18. DOI: 10.1145/3147215.

Khan A., Wairya S. Efficient and Power-Aware Design of a Novel Sparse Kogge-Stone Adder using Hybrid Carry Prefix Generator Adder // Advances in Electrical and Computer Engineering. 2024. Vol. 24. Is. 1. P. 71–80. URL: https://aece.ro/abstractplus.php?year=2024&number=1&article=8. (accessed: hh.mm.yyyy). DOI: 10.4316/AECE.2024.01008.

#### Abstract of the dissertation and dissertation

Author. Title: information related to the title (see title page): code of the nomenclature of scientific specialties: date of defense: date of approval / information about responsibility (team). Place of writing. Year. Volume. **Reference** 

Sibikeev S.N. Foreign genes in the selection of spring soft wheat for resistance to leaf rust: dissertation ... Doctor of Biological Sciences. Saratov, 2002. 200 p. Reference

Alekseev S.V. Cryohydrological systems of the Yakut diamond-bearing province. Abstract of dissertation ... Doctor of Geological and Mineralogical Sciences. Irkutsk, 2007. 24 p. Reference

Title of the regulatory and technical document: information relating to the title, designation of the previously valid document, date of introduction. Year of publication. Volume.

GOST 9353-2016. Wheat. Technical conditions. Moscow: Standardinform, 2016. 12 p.

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Patent No. 2638963 Russian Federation, IPC C08L 95/00 (2006.01), C04B 26/26 (2006.01). Concentrated polymer bitumen binder for "dry" introduction and method for its production: No. 2017101011: filed 12.01.2017: published 19.12.2017 / Belkin S. G., Dyachenko A. U. // Patent.inform.ru: electronic reference book of Russian patents. 2 n., 2 z.p. f-ly: 2 tables. URL: https://patentinform.ru/inventions/reg-2638963.html (accessed: 10.10.2020).

Patent No. 2637215 Russian Federation, IPC B02C 19/16 (2006.01), B02C 17/00 (2006.01). Vibration mill: No. 2017105030: filed 15.02.2017: published 01.12.2017 / Artemenko K. I., Bogdanov N. E.; applicant BSTU. 4 p.: ill. // Yandex.ru: patents. URL: https://yandex.ru/patents/doc/RU2637215C1 20171201 (accessed: 10.10.2020).

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Kamysheva O.V. The professional image of the modern teacher // Current issues in modern general and vocational education: proceedings of the II All-Russian scientific and practical conference (Magnitogorsk, October 17, 2016). Magnitogorsk: Publishing House of the G.I. Nosov Magnitogorsk State Technical University, 2016. Pp. 27–31. **Link to the original source. DOI if available.** 

Buinevich M., Shkerin A., Smolentseva T., Puchkova M. On the Implementation of Residual Knowledge Continuous Assessment Technology in an Educational Organization Using Artificial Intelligence Tools // Proceedings – 2024 4th International Conference on Technology Enhanced Learning in Higher Education, TELE 2024. 2024. P. 111–114.

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Sara L. Harris, David Harris. Digital Circuit Design and Computer Architecture: RISC-V / Translated from English by V.S. Yatsenkov, A.Yu. Romanov. Edited by A.Yu. Romanov. Moscow: DMK Press. 2021. 810 p. URL: https://znanium.ru/catalog/document?id=446467. (accessed: hh:mm:yyyy). - ISBN

#### Regulatory and legal documents

Title of official document (law, resolution, decree, etc.): information relating to the title, date of adoption of the document // Name of publication. Year of publication. Number (for a journal). Date and month for a newspaper. Pages or internet link.

Russian Federation. Laws. On information, information technologies and information protection: Federal Law No. 149-FZ: adopted by the State Duma on July 8, 2006: approved by the Federation Council on July 14, 2006: last ed. // ConsultantPlus: website. URL: http://www.consultant.ru/document/cons\_doc\_LAW\_61798/ (accessed: 21.06.2021). Access mode: for registered users.