

CALL FOR PAPERS

Dear colleagues!

You are invited to publish articles in the scientific collection "Topical Issues of Science and Mathematics Education", which is included in the List of Scientific Professional Publications of Ukraine (Category "B") in accordance with the order of the Ministry of Education and Science No. 1471 of 26.11.2020.

Articles are accepted for issue 24 (2024) until **October 25, 2024**.

Foreign researchers can publish their works free of charge provided they receive only the electronic version of the collection.

The publication is funded by the authors.

Each article in the journal is assigned a DOI - an international digital object identifier (DOI), a serial number used for the permanent and unique identification of objects of any type. DOI is used for "the persistent identification of intellectual property in the digital network and the association of structured data in an extensible way".

Scientific articles submitted for publication must be written in Ukrainian or English and contain material that has not been published before. In accordance with the requirements of the Higher Attestation Commission of Ukraine (Resolution No. 7-06 of January 15, 2003), the following structural elements of an article must be observed: statement of the problem in general and its connection with important scientific or practical tasks; analysis of the main studies and publications that initiated the solution of this problem and on which the author relies, highlighting previously unresolved issues of the general problem to which the article is devoted; formulation of the objectives of the research (statement of the task); presentation of the main research material with full justification of the results obtained. In order to comply with the above requirements for a scientific article, the following elements of the article should be bolded: **problem statement, analysis of current research, objectives, findings, conclusions and prospects.**

The length of the article, including the list of references (8-14 sources), should be 7-10 A4 pages. The font is Times New Roman. Line spacing -1.15 intervals of computer standard, size 12; margins: 25 mm on all sides.

When submitting a manuscript, authors should adhere to the following requirements

- do not condense or thin the spacing between letters;
- do not use tabs or multiple spaces between paragraphs;
- use quotation marks in the format « »;
- put a continuous space between the initials and the last name (Ctrl+Shift+space);
- use only graphic elements made in graphic editors with high quality details;
- use the DOC file format for sending to the editorial DOC.

The manuscript should be formatted in accordance with the State Standard DSTU 3008-95. In the upper left corner of the first page of the manuscript, the UDC is placed, in the right - the initials and surname of the author(s), the author's ORCID ID (ORCID ID registration is carried out on the website orcid.org), the name of the institution.

On the next line the title of the article in capital letters (bold) should be centered.

Then add a blank line before the abstract in Ukrainian (1800-2000 characters), keywords (8-10 italics).

Then add a blank line before the body of the article.

Then add a blank line before a list of references.

After the list of references - an abstract in English (not less than 1800-2000 characters), keywords (8-10 italics). Above the abstract, the author's name(s) and initials, the title of the article in English should be indicated. Please note: Computer translation is not allowed.

The manuscript should be carefully checked and fully edited. Materials with any errors are not accepted for publication.

The author is responsible for the content of the manuscript and the accuracy of the materials.

The article is accompanied by:

1. Information about the authors (in a separate file): surname, name, place of work, position, academic degree, academic title, home address / correspondence address (e-mail address), address for sending the collection (Nova Poshta), contact numbers.

2. The review-recommendation of the supervisor (for graduate students and applicants submitting single articles) is attached as a separate file (briefly indicate the novelty, personal contribution of the author, recommendation for publication).

The manuscript and information about the authors should be sent to the e-mail of the collection

actualni.putannja.pmo@gmail.com

The scientific collection is published twice a year.

Please note: Computer translation is not allowed.

Funds for the publication (printed or electronic version) are sent after notification to the author's e-mail address that the editorial board has accepted the article for publication within the next 10 days after receiving the notification.

The decision to publish is made after the article is reviewed by the members of the editorial board (or invited experts). To achieve greater objectivity in assessing the scientific content of articles, an independent, confidential review is conducted (without

specifying the names of authors and reviewers). Rejected manuscripts are not returned to the authors.

Submission Criteria:

- the title of the article relates to its purpose and content;
- substantiation of relevance, clear statement of the problem and its connection with important scientific/practical tasks
- analysis of the main studies and publications that initiated the solution of this problem and on which the author relies (all borrowed facts and quotations should be submitted with references to the original or primary source);
- presentation of the main research material with full justification of the scientific results obtained;
- scientific novelty and practical significance of the results obtained;
- logical conclusions and prospects for further research in this scope;
- list of references cited in the text of the article.

After the publication of the scientific journal, electronic versions of the articles will be placed in the public domain on the website of the collection <https://fizmat.sspu.edu.ua/aktualni-pytannia-pryrodneycho-matematychnoi-osvity> and on the website of the scientific laboratory of Sumy State Pedagogical University named after A.S. Makarenko.

Mailing of printed materials (“Nova Poshta”) is carried out at the expense of the author.

Foreign researchers can publish their works free of charge provided they receive only the electronic version of the collection.

Issue 21 (year 2023)

Printed version:

- assignment of a digital object identifier (DOI) - 100 UAH;
- printed publication and electronic version of the collection (PDF file) - 600 UAH for an article 7 pages long, for each additional page beyond this volume - 90 UAH;
- additional printed copy (if needed) - 480 UAH.

Electronic version:

- assignment of a digital object identifier (DOI) - 100 UAH;
- electronic version of the collection (PDF file) - 450 UAH.

Articles submitted in English:

Printed version:

- assignment of a digital object identifier (DOI) - 100 UAH;
- printed publication and electronic version of the collection (PDF file) - 500 UAH for an article 7 pages long, for each additional page beyond this volume - 90 UAH;
- additional printed copy (if needed) - 380 UAH.

Electronic version:

- electronic version of the collection (PDF file) - free of charge, with payment only for the assignment of a digital object identifier (DOI) - 100 UAH.

**Payment is accepted to the publisher's card.
Privatbank card number: 5168745603698579
Receiver: Serhii Petrovych Tsoma.**

In the abstract, it is necessary to include the following elements: the article's objective, research methods, research results, practical significance of the research, conclusions, and prospects for further scientific research. The manuscript pages are not numbered. Captions for figures, diagrams, and tables should include their number, title, and explanation of the symbols used. References to sources in the text are given in the following format: [5, p. 87], where 5 is the source number in the literature list, and 87 is the page number. References to several scientific publications are given as follows: [3, p. 156; 4; 8, pp. 22-23].

The bibliography is single-spaced, size 12 font, in alphabetical order, and is presented after the article's text under the heading "References." It should be formatted according to the requirements of the APA standard (<http://www.apastyle.org>), where all Cyrillic source names are translated into English. In order to increase the citation index, it is recommended to provide a translation of articles/books/dissertation abstracts into English in the author's version, which is contained in the abstract to this research paper (see Appendix 1).

While working on the article and creating the bibliography, please pay attention to Ukrainian and foreign sources, taking into account the recommendations of the NAHEQA (National Agency for Higher Education Quality Assurance) decree of January 24, 2023, and the strategy for the popularization of the Ukrainian language by 2030, "Strong Language - Successful State," approved by the Cabinet of Ministers of Ukraine on July 17, 2019, No. 596, regarding the comprehensive use of the Ukrainian language in all areas (including education and science) throughout Ukraine.

We hope for fruitful cooperation! Editorial Board

Sample article formatting

УДК 371.315.6:51

H.P. Shevchenko

ORCID ID 0000-0003-0895-3476

Sumy Makarenko State Pedagogical University

(BLANK)

THE TITLE OF THE ARTICLE

(BLANK)

Abstract in Ukrainian, no less than 1800-2000 of printed characters in 12-point italic font with single spacing.

Key words: 8-10 – italic.

(BLANK)

Article text.

(BLANK)

REFERENCES

1. Лавриченко, Н. М. (2016). Теоретична модель розвитку обдарованості й таланту за авторством Ф. Ганс. Вісник Глухівського національного педагогічного університету

імені Олександра Довженка, 32, 69–75.

- Heller, K. A. (1989). Perspectives on the diagnosis of giftedness. *German journal of psychology*, 13, 140–159.

(BLANK)

Shevchenko H.P. Title of article.

Summary. In English. Volume 1800-2000 of printed characters in 12-point italic font with single spacing.

Key words: 8-10 – italic.

Appendix 1

The example of References format in correspondence with APA standard

REFERENCES

Legislative act

- Jacob K. Javits Gifted and Talented Students Education Act. Title IV, Part B of P.L. (1998).
- Закон України «Про основні засади державної підтримки обдарованих дітей та молоді на Україні» (Law of Ukraine “On the main foundations of gifted children and youth support in Ukraine”) (2005). Retrieved from: <http://www.zakon.rada.gov.ua/>

Dissertation/ dissertation’s thesis abstract

- Бобир, О. В. (2005). Особистісні характеристики юнацтва з різними формами обдарованості (дис. ... канд. психол. наук: 19.00.07). Дніпропетровськ (Bobyр, O. V. Personal characteristics of adolescents with different forms of giftedness (PhD thesis). Dnipropetrovsk).
- Коваленко, О. А. (2011). Теоретичні і методичні основи навчання академічно обдарованих учнів початкової школи (автореф. дис. ... д-ра пед. наук: 13.00.09). Кривий Ріг. (Kovalenko, O. A. (2011). Theoretical and methodological foundations of teaching academically gifted pupils in primary schools (DSc thesis abstract). Kryvyi Rih).

Book

- Davis, G. A., Rimm, S. A. (2004). *Education of the gifted and talented*. Boston, MA: Allyn & Bacon.

Part of book

- Davidson, J. E. (1986). The role of insight in giftedness. In R. J. Sternberg, J. E. Davidson (Eds), *Conceptions of giftedness* (pp. 201–222). New York: Cambridge University Press.
- Haensly, P. Reynolds, C. R., Nash, W. R. (1986). Giftedness: coalescence, context, conflict, and commitment. In R. J. Sternberg, J. E. Davidson (Eds), *Conceptions of giftedness* (pp. 128–148). New York: Cambridge University Press.
- Корольов, Д. К. (2014). Теоретичні засади дослідження освітнього середовища для обдарованих дітей та молоді в зарубіжній науці. Освітнє середовище як чинник становлення обдарованої особистості, Р. О. Семенова (ред.), (сс. 9–22). К.-Кіровоград: Імекс-ЛІТД (Korolov, D. K. (2014). Theoretical framework of the research of educational

environment for gifted children and youth in a foreign science. In R. O. Semenova (Ed.), Educational environment as a factor of the gifted person formation (pp. 9–22). K.-Kirovohra: Imeks-LTD).

Article

1. Heller, K. A. (1989). Perspectives on the diagnosis of giftedness. German journal of psychology, 13, 140–159.
2. Лавриченко, Н. М. (2016). Теоретична модель розвитку обдарованості й таланту за авторством Ф. Ганє. Вісник Глухівського національного педагогічного університету імені Олександра Довженка, 32, 69–75. (Lavrychenko, N. M. (2016). The theoretical model of giftedness and talent by F. Gagné authorship. Olexandr Dovzhenko Hlukhiv National Pedagogical University Bulletin, 32, 69–75).

Electronic resource

1. STEM Rankings Best High Schools. U.S. News Rankings. Retrieved from: <http://www.usnews.com/education/best-high-schools/national-rankings/stem/>.
2. Мала академія наук України. Про МАН. Режим доступу: http://man.gov.ua/ua/about_the_academy/macsu (Minor Academy of Sciences of Ukraine. About MAS. Retrieved from: http://man.gov.ua/ua/about_the_academy/macsu).