

The Information letter

Dear colleagues! Anton Makarenko Sumy state pedagogical university and the Laboratory of mathematical, physical and computer's science training's content and their methods publish the

Digest (may be journal) of scientific works « **TOPICAL ISSUES OF NATURAL SCIENCE AND MATHEMATICS EDUCATION**»

. This digest is in the List of specialized scientific publications (Resolution of the Presidium of HAC of Ukraine No. 1604 of 22.12.2016). Every article of this digest is given Digital object identifier (DOI). DOI is the serial number which using for constantly and uniquely identify to any kind object. DOI is unique alpha metric string assigned by a register agency (the International DOI Foundation) to identify control and provide a persistent link to its location on the Internet. The publisher assigns a DOI when article is published and made available electronically.

For foreign authors, provided the collection is received as a PDF file, publication is free.

A scientific manuscript (which will be published) should to written on Ukrainian (with the exception foreign authors) and included the material which is not submitted for publication elsewhere.

The article should contain next structural elements (in accordance with requirements of the Decree of Presidium of Supreme Certification Commission Of Ukraine No. 7-05/01 dated January 15, 2003): a formulation of problem in general and its connections with important scientific or practical problems; an analyzing of basic researches and scientific works in which begin the solution of the problem and which author use; a highlighting some part of unsolved problem which this article is devoted; a formulation the aims of article (problems setting); a presentation of basic material of research with full justification (proof) of results; a conclusion of this research and prospection to feature research.

The author should to bold next items: **the formulation of problem, the analyzing of basic researches, the presentation of basic material, the conclusion and the prospection to feature research.**

The requirements to manuscript are: volume of it (with reference – 8- 14 items) should be 12 -16 pages; font – Time New Roman; spacing – 1,5; size – 14 pt; page setup – 2,5 – 2,5 – 2,5 – 2,5 (according to option: /page parameters/ program WinWord-97); average number of characters per line – 65; number of line per page – up to 30.

The author (who would like to publish his manuscript) should to do next:

- don't compaction or dilution of letters' spacing;
- don't repulse paragraphs with tabs or multiple spaces;
- use the quotes mark « »;
- put inextricable interval (Ctrl + Shift + interval) between initials and surname;
- use only graphics elements which are making in graphic programs with high quality;
- use for file extension .doc.

The manuscript could contain METADATA such as

- left corner : UDC Classifications;
- right corner: initials and surname of author (s); ORCID of author (s) (registration on orcid.org); affiliation (name of organization)
- below in the middle the title of the article (big letters, bolt type);
- below, though an empty line, a summary in Ukrainian (1800- 2000 characters), keywords (8 -10, italic type);
- below, though an empty line, the text of the article;
- below – references;
- after references – the summaries in Russian (not less than 1200 – 1600 characters, single spacing, size – 14 pt) and in English (not less 1800-2000 characters), keywords (8 -10, italic type); above the

summary should be the surname and initials of the author(s), the title of the article in Russian and in English respectively.

Note! Don't make a computer's translation (the text should be written in quality English).

The manuscript should be carefully subtracted and edited. The material with some mistakes will not allow publishing.

The author(s) as (are) responsible for content of manuscript and for reliability of all information.

Add to manuscript:

- information of author(s): full name, affiliation (name of organization, degree, position, contact address (with zip code), e-mail address, office, home or mobile phones);
- for post graduate student – the review-recommendation of scientific advisor (the novelty and personal contribution of the author are briefly determination) as single file.

The text of manuscript and information of author(s) will be sending for e-mail address:

actualni.putannja.pmo@gmail.com

Digest of scientific works «Actual problem of natural science and mathematical education» publishes twice a year.

Editorial Board makes a final decision with respect of a possibility to publish the article after internal peer-reviewing. It's independent confidential peer-reviewing (without specifying surnames of author(s) and peer-reviewers) for more objective assessment. Rejected manuscript don't return to author(s).

The following issues are considered in review:

- a corresponding a title of the article to its aim and content;
- an justification of relevance, a clear statement of the problem and its relation to important scientific / practical problem;
- an analyzing of basic research and scientific works in which begin the solution of the problem and which author use (all quoted facts should refer to the originals or source);
- a presentation of basic material of research with full justification (proof) of results;
- a scientific novelty and a practical importance of the results;
- a clear conclusion of this research and prospection to feature research;
- references with link to the text.

The article after publishing is posted on the site of the Laboratory of mathematical, physical and computer's science training's content and their methods in free access <https://appmo.sspu.sumy.ua/> and (<http://laboratoriyasspu.hol.es/kategoriyi/drukovani-materialy>). The author get 1 (one) author's PDF copy of the Digest (one copy for one article). Additional copies of Digest could be purchased from Publisher by preliminary order.

The example of article design

UDC 371.315.6:51

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THE TITLE OF ARTICLE

(EMPTY LINE)

A summary in Ukrainian, not less 1800- 2000 characters, italic type, spacing – single, size – 14 pt.

Keywords: 8 -10, italic type.

(EMPTY LINE)

The text of article.

(EMPTY LINE)

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

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Шевченко Г.П. Название статьи.

Аннотация. A summary in Russian, not less than 1200 – 1600 characters, single spacing, size – 14 pt.

Ключевые слова: keywords in Russian, 8 -10, italic type.

(EMPTY LINE)

Shevchenko G.P. Title of article.

Summary. A summary in English, not less 1800-2000 characters, single spacing, size – 14 pt.

Keywords: 8-10, italic type.

The summaries should contain next element: the aim of article, the methods of research, the results of research, practical importance of the results, conclusion of this research and prospection to feature research.

Pages of the manuscript aren't numbered. Inscriptions to pictures and drawings, diagrams and tables should include their number, name, explanations of symbols. References to the sources in the text are given as follows [5, p.87] where 5 – the source number to the references, 87 – page. References to some scientific sources together are given as follows [3, p. 156; 4; 8, p. 22-23].

The bibliographic list is compiled after single spacing, size 14, in alphabetical order and is given after the text of the article with the title “References”. It should be prepared in accordance with the requirements APA standards (<http://www.apastyle.org>), in which all Cyrillic names of sources are translated to English. The English translations of articles/ books/ dissertations' thesis abstract should be submitted in author's edition (which is given in summary of this scientific work (see appendix 1)) to increase the citation index.

Edition Board

We look forward to cooperation!

Appendix 1

The example of References' design in corresponding with APA standard

REFERENCES

Legislative act

1. Jacob K. Javits Gifted and Talented Students Education Act. Title IV, Part B of P.L. (1998).
2. 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

1. Бобир, О. В. (2005). Особистісні характеристики юнацтва з різними формами обдарованості (дис. ... канд. психол. наук: 19.00.07). Дніпропетровськ (Bobyry, O. V. Personal characteristics of adolescents with different forms of giftedness (PhD thesis). Dnipropetrovsk).
2. 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

1. Davis, G. A., Rimm, S. A. (2004). Education of the gifted and talented. Boston, MA: Allyn & Bacon.
2. Рубинштейн, С. Л. (2000). Основы общей психологии. Санкт-Петербург: Питер. (Rubinstein, S. L. (2000). Fundamentals of general psychology. Saint Petersburg: Piter).

Part of book

1. 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.
2. 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.
3. 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-ЛТД (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. Гане. 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 source

1. STEMR an kings 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).