

# Preparation of Papers for BgNS TRANSACTIONS

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## STRUCTURE OF MANUSCRIPT

**Title**, authors' names (abbreviated first names are preferred), current affiliations and current address, E-mail address of the corresponding author.

**Abstract:** The abstract is one paragraph long (not an introduction) and complete in itself (no reference numbers). It should not exceed 200 words.

**Keywords:** Enter key words or phrases in alphabetical order (no more 5).

**Text:** The default font is Times New Roman (10 pt), single-space format. Manuscripts should contain clearly identified sections: introduction, main text, results and summary /conclusion/. Subsections are allowed to second and third level. Sections and subsections should be numbered with Arabic numerals if necessary for cross-referencing sections within the paper. The first line of each paragraph should not be indented. There should be an additional (blank) line between the paragraphs. The electronic file you submit will be formatted further in a two-column style.

**Units:** Use SI (MKS) units. Use the centre dot to separate compound units, e.g., "A•m<sup>2</sup>."

**Mathematics:** Use either the *Microsoft Equation Editor* or the *Math Type* add-on (<http://www.mathtype.com>) for equations. Number the equations consecutively in Arabic numerals enclosed in parentheses in the right-hand margin. The symbols in the equation are defined before the equation appears, or immediately following it. In the text refer to equations 'Eq. (1)', except at the beginning of a sentence: 'Equation (1) is ....'

**Graphics, Figures, Tables:** All figures, graphics and tables, and their captions, should be placed at the end of the paper. All they should be numbered with Arabic numerals in order their appearance in the text. It is recommended tables and figures to be one column wide (81 millimetres) or page wide (170 millimetres). The images format can be Joint Photographic Experts Group (.JPG), Encapsulated PostScript (.EPS), Tagged Image File Format (.TIFF), Portable Document Format (.PDF), or Portable Network

Graphics (.PNG). Colour and grey-scale figures should be at least 300dpi. Line art, including tables should be a minimum of 600dpi. In the text, refer to tables 'Table 1' and to figures 'Fig. 1' (except at the beginning of a sentence: 'Figure 1'...).

Short text descriptions are required above Tables and below Figures (graphics).

**Figure Axis labels:** Use words rather than symbols. For example, write the quantity "Energy," or "Energy, E," not just "E". Put units in parentheses. Figure labels should be legible, approximately 8 to 10 point type.

**Conclusion:** A conclusion may review the main points of the paper, might elaborate on the importance of the work or suggest applications and extensions. It is the last section of the paper to be numbered.

**Appendix:** An appendix, if needed, appears before the acknowledgements. If there is more than one appendix, they should be identified as A, B, etc.

**Acknowledgements:** write "Author thanks...". Sponsor and financial support acknowledgments are also to be listed in the "acknowledgments" section.

**References:** List and number all references at the end of the paper. Corresponding numbers in square brackets inside the punctuation are used to cite references in the text [1], unless the citation is an integral part of the sentence (e.g., "It is shown in Ref. 2 that..."). For multiple citations, separate reference numbers with commas [4,5], or use a dash to show a range [6-8]. Reference citations in the text should be in numerical order. The following entries are intended:

Journal article:

Kuznetsov V., Fesenko G., Schwenk-Ferrero A., Andrianov A., Kuptsov I. (2015) Innovative Nuclear Energy Systems: State-of-the Art Survey on Evaluation and Aggregation Judgment Measures Applied to Performance Comparison. *Energies* **8** 3679-3719.

Books without editors:

Todreas, N.E., Kazimi, M.S. (1993) *Nuclear Systems I: Thermal Hydraulic Fundamentals* (2nd ed.), Taylor & Francis: London.

Books with editors:

Angelov C., Nikolova N., Arsov T., Kalapov I., Tchorbadijeff A., Penev I., Angelov I. (2016) BEO Mousala: Complex for Environmental Studies. In *Sustainable Development in Mountain Regions*; Zhelezov, G. (Ed.), Springer, pp. 349-366.

Proceedings:

Stanojević M., Leskovar M. (2001) Simulation of the QUENCH-06 experiment with MELCOR 1.8.5. In Proceedings of International Conference Nuclear Energy in Central Europe 2001 Portorož, Slovenia, September 10-13, 2001; Jenčič I., Glumac B. (Eds.), Nuclear Society of Slovenia.

Meeting or conference:

Tóth S., Aszódi A. (2006) Calculations of Coolant Flow in a VVER-440 Fuel Bundle with the Code ANSYS CFX 10.0. Presented at Workshop on Modeling and Measurements of Two-Phase Flows and Heat Transfer in Nuclear Fuel Assemblies, Sept 13–20, 2006.

Theses:

Ivanova, K. (2015) Former uranium mining sites in Bulgaria – contamination of surface waters and risk for population. Ph.D. Thesis, University of Sofia.

Patents:

Sheem S.K. (2004) Low-Cost Fiber Optic Pressure Sensor. U.S. Patent 6,738,537, May 18, 2004.

Technical reports and bulletins with authors:

Ivanov K., Avramova M., Kodeli I., Sartori E. (2007) Benchmark for Uncertainty Analysis in Modeling (UAM) for Design, Operation and Safety Analysis of LWRs, Volume I: Specification and Support Data for the Neutronics Cases (Phase I); NEA/OECD Nuclear Energy Agency, NEA/NSC/DOC23, 2007.

Technical reports and bulletins without authors:

INTERNATIONAL ATOMIC ENERGY AGENCY (2009) Passive Safety Systems and Natural Circulation in Water Cooled Nuclear Power Plants, TECDOC Series No. 1624, IAEA.

Online Periodicals published only electronically:

Romano P.K. (accessed Oct 13, 2013) The OpenMC Monte Carlo Code -- OpenMC Documentation. <http://mit-crpg-github.io/openmc>.

CD-ROMs and DVDs:

Fleming S.A., Jensen A.W. (2015) Substituent Effects on the Photocleavage of Benzyl–Sulfur Bonds. In Proceedings of the 2nd Bulgarian National Congress on Physical Sciences, Sofia, Bulgaria, Sept. 19-25, 2014; Mishonov T.M. (Ed.), [DVD] Heron Press: Sofia

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