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«Nanotechnologies in Construction: A Scientific Internet-Journal» in **Appendix 2**. The format of submitted papers must be done according to the structure given in **Appendix 3**.

- accompanying letter (the editors send the sample of the letter to the authors on demand).

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to format guidelines when formatting your paper.**



The paper format guidelines

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- The number of pages in the paper – more than 3 but less than 10 pages in A4 format.
- Margins: left and right – 2 cm, bottom and upper – 2,5 cm.
- The body of the paper is performed in Word.
- The font of the body – Times New Roman.
- The font size of the text is 14 pt, the factor of line-to-line spacing – 1,15.
- To keep the style uniform, don't use font effects (italics, underlined etc).
- Indention – 1 cm.
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- Formulas are placed in the center of the column (page) without indention, their numbers are given in round brackets and are placed in the column (page) with right justification. If there is only one formula in the paper, it is not numbered. Above and at the bottom of the text formulas are not separated by additional space.
- To make the reference to the formula in the text use round brackets (1), to make reference to the bibliographical source use square brackets [1].
- The size of the references is 12 pt.



2. Graphical design of the paper

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- After the first mentioning of the diagrams, pictures and photos in the text, they are inserted in the form which is suitable for the authors.
- The legends (12 pt, normal) are placed under the figures in the center after reduced word Fig. and number (12 pt, bold) of the figure. If there is only one figure, it is not numbered.
- Between the legend and the following text – one line-to-line spacing.
- All pictures and photos must be contrast and the resolution of the pictures and photos must be no less than 300 dpi. Illustrations are desirable to be coloured.
- The lines of the diagrams must not be thin (the line width – no less than 0,2 mm).
- Copies and figures scanned from the books and journals of a low quality and resolution are not accepted.
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3. The format of the modules

- Modules must be contrast and the resolution of the modules must be no less than 300 dpi (format .jpg).
- The size of the modules, mm:
1/1 – 170 (width) x 230 (height);
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The Topics of Published Materials

- Nanostructured systems strength and penetrability formation theory development.
- Mathematical quantum and other types of models for nanomaterials characteristic research.
- The problems of nanomaterials and nanotechnologies implementation in construction and building materials.
- Technological principles of nanostructures creation (liquid melts, sol and gel synthesis).
- Creation of new functional materials in construction.
- Development of transition principles «disorder-order» when creating composites with the use of synergetic and other approaches.
- Study of different technological principles when creating nanosystems in industrial production.
- Diagnostics of building systems nanostructures and nanomaterials.
- The problems of obtaining of high-density and high-durability building materials (concretes, ceramics etc.).
- Technologies of mineral particles grinding to nanodimensional levels.
- Technology of blending mixtures with nanodispersed particles and methods to activate them.
- Hydrodynamic methods and other methods of aqueous suspensions and solutions activation.
- Modification of aqueous solution of different nanodimensional additives used in construction.
- Research in the area of powder nanomaterials toxicity.
- Metal reinforcement modified by nanodimensional materials in production process.
- Carbonic, basalt and aramid fibers and other types of fibers of small diameters with nanodimensional structural characteristics.
- Cement and other binders with mineral and organic additives.
- Concretes and solutions modified by nanodimensional additives.



- Mineral particles suspensions used for laques, paints as well as for modifiers for concretes and solutions; properties, fabrication method and durability.
- Organic materials dispersions used in laques and paints production as well as to manufacture additives for concretes and solutions; activation methods and durability of these dispersions.
- Use of nanopowder of different nature to modify building materials properties.
- New characteristics of building materials based on nanosystems.
- Modification of building materials with nanofibers.
- Disperse composite materials with nanocoating.
- Formation of nanostructure coatings by means of laser sputtering.
- Development of the methods aimed at studying materials nanostructure on the basis of disperse systems, including studying of vacuum nanoobjects in porous systems.
- Technologies aimed at studying nanomaterial properties.
- The systems of teaching the fundamentals of nanotechnologies.

The topics can be different, directly or indirectly related to the areas mentioned above.



The structure of the paper

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Description of a Paper from Ongoing Edition (Proceedings):

Astakhov M.V., Tagantsev T.V. Eksperimental'noe issledovanie prochnosti soedinenii «stal'-kompozit» [Experimental study of the strength of joints «steel-composite»]. *Trudy MGTU «Matematicheskoe modelirovanie slozhnykh tekhnicheskikh sistem»* [Proc. of the Bauman MSTU «Mathematical Modeling of Complex Technical Systems»], 2006, no. 593, pp. 125–130.



Description of a Paper with DOI:

Korolev E.V., Smirnov V.A., Evstigneev A.V. Nanostructure of matrices for sulfur constructional composites: methodology, methods and research tools. *Nanotehnologii v stroitel'stve = Nanotechnologies in Construction*. 2014, Vol. 6, no. 6, pp. 106–148. DOI: [dx.doi.org/10.15828/2075-8545-2014-6-6-106-148](https://doi.org/10.15828/2075-8545-2014-6-6-106-148).

Description of Conference Proceedings:

Usmanov T.S., Gusmanov A.A., Mullagalina I.Z., Muhametshina R.Ju., Chervyakova A.N., Sveshnikov A.V. Features of the design of field development with the use of hydraulic fracturing. *Trudy 6 Mezhdunarodnogo Simpoziuma «Novye resursosberegayushchie tekhnologii nedropol'zovaniya i povysheniya neftegazootdachi» [Proc. 6th Int. Symp. «New energy saving subsoil technologies and the increasing of the oil and gas impact»]*. Moscow, 2007, pp. 267–272. (In Russian).

Description of Book (Monograph, Collection):

Lindorf L.S., Mamikonians L.G., eds. *Ekspluatatsiia turbogeneratirov s neposredstvennym okhlazhdeniem [Operation of turbine generators with direct cooling]*. Moscow, Energiia Publ., 1972, 352 p. (In Russian).

Kanevskaya R.D. *Matematicheskoe modelirovanie gidrodinamicheskikh protsessov razrabotki mestorozhdenii uglevodorodov [Mathematical modeling of hydrodynamic processes of hydrocarbon deposit development]*. Izhevsk, 2002. 140 p.

Description of Translated Book:

Timoshenko S.P., Young D.H., Weaver W. *Vibration problems in engineering*. 4th ed. New York, Wiley, 1974. 521 p. (Russ. ed.: *Timoshenko S.P., Iang D.Kh., Uiver U.* *Kolebaniia v inzhenernom dele*. Moscow, Mashinostroenie Publ., 1985. 472 p.).

Brooking A., Jones P., Cox F. *Expert systems. Principles and case studies*. Chapman and Hall, 1984. 231 p. (Russ. ed.: *Braking A., Dzhons P., Koks F.* *Ekspertnye sistemy. Printsipy raboty i primery*. Moscow, Radio i sviaz' Publ., 1987. 224 p.).



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Description of Thesis or Abstract of Thesis:

Semenov V.I. Matematicheskoe modelirovanie plazmy v sisteme kompaktnyi tor. Dokt, Diss. [Mathematical modeling of the plasma in the compact torus. Doct. Diss.]. Moscow, 2003. 272 p.

Description of State Standard (GOST):

State Standard 8.586.5–2005. Method of measurement. Measurement of flow rate and volume of liquids and gases by means of orifice devices. Moscow, Standartinform Publ., 2007. 10 p. (In Russian).

Description of Patent:

Palkin M.V. Sposob orientirovaniia po krenu letatel'nogo apparata s opticheskoi golovkoi samonavedeniia [The way to orient on the roll of aircraft with optical homing head]. Patent RF, no. 2280590, 2006.

Description of Unpublished Document:

Pressure generator GD-2M. Technical description and user manual. Zagorsk, Res. Inst. of Appl. Chem. Publ., 1975. 15 p. (In Russian, unpublished).

