

**THE MONTHLY REVIEWED FULL COLOR INTERNATIONAL SCIENTIFIC JOURNAL FOR
ALTERNATIVE ENERGY AND ECOLOGY
(ISJAEE)**

FREE PUBLICATION

Publication Rules and the Peer-Review Process (2016-2017)

Adopted on October 22, 2016.

ABOUT THE JOURNAL

The International Scientific Journal for Alternative Energy and Ecology (ISSN 1608-8298, Sarov, the Nizhniy Novgorod Region, Russia) is one of the world's leading scientific journal in the field of alternative energy and ecology as well as an official journal of the International Association for Hydrogen Energy, IAHE and the International Association for Alternative Energy and Ecology, IAAEE.

The journal was founded in 2000 by the Scientific Technical Centre TATA Limited under the License Agreement between Alexander Leonidovich Gusev (Sarov, Russia), Founder, Member of the Serbian Academy of Sciences and Arts.

In 2015, the International Scientific Journal for Alternative Energy and Ecology celebrated its 15th birthday.

Good results were achieved in the short term. 200 issues of the journal containing more than 3,800 scientific papers written by the leading scientists from more than 50 countries of the world were published.

At present, the journal publishes manuscripts in Russian and English (in the original language). All papers are published in Russian (ISJAEE) and English version (the International Journal of Hydrogen Energy, IJHE and Solar Energy, Elsevier) of the journal.

The emphasis is placed on original research, unpublished earlier, in the field of physico-mathematical, engineering and chemical sciences focusing on the following topics: physics, kinetics and catalysis, ecology (by sectors: engineering and chemical sciences), aircraft and space-rocket as well as power engineering carried out by the Members of the Russian Academy of Sciences as well as other Academies along with the leading scientists from around the world.

Moreover, the researchers from Russian Universities as well as Research and Training Institutes assist in publishing the journal. It is intended for experts in physico-mathematical, engineering and chemical sciences.

In 2000, the editorial board of the journal took the lead in establishing the National Hydrogen Energy Association, NHEA RF, and in 2003 it took an active part in its foundation. The editorial board of the journal has been actively engaged with the governing body of NHEA RF since then.

The journal is the organizer of a number of international and domestic scientific forums such as WCAEE-2006 (about 1000 participants from 18 countries all over the world), IFSSEHT-2000, IFSSEHT-2003 (about 350 participants from 12 countries), IFSSEHT-2006, ICHRSE-2006, ISHSR-2006 and others.

The journal is published three times a month, thus 6 issues of the journal are published within two months. The journal is published in volumes consisting of three issues each. The journal is entitled in English as follows:

- International Journal of Hydrogen Energy (IJHE);
- Solar Energy;
- International Scientific Journal for Alternative Energy and Ecology (ISJAEE).

English version of the journal has rather high Science Citation Indexes (SCI) including Journal Metrics: Source Normalized Impact per Paper (SNIP): 1.424; SCImago Journal Rank (SJR): 1.338; Impact Factor: 2.930 (Thomson Reuters Journal Citation Reports 2014); 5-Year Impact Factor: 3.448 (Thomson Reuters Journal Citation Reports 2014).

Best papers from the International Scientific Journal for Alternative Energy and Ecology are published in the International Journal of Hydrogen Energy, while the papers which are of interest to ISJAEE may be translated into English and published in the International Journal of Hydrogen Energy.

Once the English version of the paper from ISJAEE (in Russian) has been published in IJHE (in English), it is automatically included in SCORPUS and Web of Science along with all IJHE papers as well as in the following indexing systems:

Indexed/Abstracted in:

- Chemical Abstracts (Online),

- Chemical Engineering and Biotechnology Abstracts (Online),
- Chimica,
- Compendex,
- Currents Abstracts,
- Current Contents,
- EnCompassLit,
- Energy * Power Abstracts,
- Inspec, PubMed,
- Referativnyi Zhurnal,
- Russian Academy of Sciences Bibliographies,
- Science Citation Index Expanded,
- TEMA-Technology and Management,
- Web of Science,
- The abstract and citation database SCOPUS.

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The International Scientific Journal for Alternative Energy and Ecology is included in databases of and is indexed in:

- **Ulrich's Periodicals Directory** (<http://ulrichsweb.serialssolutions.com/login>)
- **The Supreme Personnel Review Board of the Ministry of Education and Science of the Russian Federation** in the Information on publishers included in international abstract databases and citation indexes (as for February 17, 2016) (<http://vak.ed.gov.ru/documents>)
- **Chemical Abstracts (Online)** (<http://cassi.cas.org/>)
- **Scientific Electronic Library** (<http://elibrary.ru/>)
- **Russian Science Citation Index** (the Impact Factor of RSCI) (RSCI is 2545)
- **SCIENCE INDEX** (Integrated index of the journal in SCIENCE INDEX)
- **Digital Catalogue of the Russian State Library** (<http://aleph.rsl.ru>)
- **The Russian State Library** (<http://eds.b.ebscohost.com>)
- **VINITI of the Russian Academy of Science**
- **VINITI Digital Catalogue** (<http://catalog.viniti.ru>)
- **The European Library**
- **WorldCat Identities Network** (<http://www.worldcat.org/>)
- **Google Scholar** – (GS - 18000) – **GOOGLE Academy** (<https://scholar.google.ru>)
- **Open Archives** (<http://www.openarchives.org/>)
- **Research Bible** (<http://www.researchbib.com/>)
- **Academic Keys** (<http://www.academickeys.com>)
- **Russian Impact Factor, RIF** (<http://impact-factor.ru/katalog-zhurnalov/item/571-mezhdunarodnyj-nauchnyj-zhurnal-alternativnaya-energetika-i-ekologiya.html>)
- **International Scientific Journal “Life and Ecology”** (The Abstract Journal), Volume 50.
- **Alternative Energy and Ecology** (http://elibrary.ru/title_about.asp?id=50709)
- **CROSS REF (DOI)** (<http://search.crossref.org/?q=1608-8298>) (since 2014)
- **Kiosker** (<http://kiosker.ru>)
- **IPRbooks Electronic Library** (iprbookshop.ru)
- **Apple Story** (through providing service of Quazarteam Limited, e-mail: gl@quazarteam.com)

In 2000, the journal was registered in UNESCO in ISSN International Centre (key title: “Ал’тернативнаâ èнергетика и èкологиâ”, abbreviated key title: “Ал’терн. ènerg. ècol.”), ISSN 1608-8298.

The scope of topics covered by the journal has been approved by the International Association for Hydrogen Energy, IAHE and the International Centre for Hydrogen Energy Technologies of the United Nations Industrial Development Organization, UNIDO-ICHET.

The total number of citations (RSCI): 4311. The h-index for 10 years is 11; the Herfindahl index by authors’ organizations is 261.

The Impact Factor, IF of RSCI with regard to the translated version is 0.577 (as for 2014); the two-year IF of RSCI is 0.555 (as for 2014). The IF of RSCI is 0.807. The Scientific Citation Index, SCI (calculated on the basis of the thematic index of citing, TIC and Page Rank) is 0.335.

The half-life for the journal articles cited this year is 3.1 years.

The journal is included in the following catalogues: Rospechat (20487), the Union Catalogue “Russian and Foreign Newspapers and Journals” (41935), Informnauka, MK-Periodica, “Ural-Press”. Full digital versions of the articles are available on the Scientific Electronic Library website <http://e-library.ru>, on the ISJAEE website <http://isjaee.hydrogen.ru>, and on the International Information and Education Portal “Hydrogen” <http://www.hydrogen.ru>.

The journal has been registered with the Federal Service for Supervision in the Sphere of Mass Communication, Communications and the Protection of Cultural Heritage (Certificate PI No FC77-21881 dated September 14, 2015).

The International Scientific Journal for Alternative Energy and Ecology is ranked 9,740th in the SCIENCE INDEX 2012, while it is ranked 291st in the Global SCIENCE INDEX 2012; on the topic “Environment Protection and Human Ecology” – 1; on the topic “Energy” -1.

The list of references is transliterated in accordance with the ISO 9:1995 Standard.

ISJAEE is cited by the journals published in the USA, China and the European Union. Special issues and reviews focusing on specific scientific and technical problems in a certain topic are published here.

ISJAEE is the main academic journal in renewable energy publishing PhD and Sc.D. theses in Engineering Science.

Full electronic versions of the papers can be purchased through the following e-libraries: Kiosker (<http://kiosker.ru>), the Scientific Electronic Library (<http://elibrary.ru>), and IPRbooks Electronic Library (iprbookshop.ru).

The scope of topics covered by the International Scientific Journal for Alternative Energy and Ecology has been approved by the International Association for Hydrogen Energy, editorial board of International Journal of Hydrogen Energy, and UNIDO-ICHET.

The original scope of topics covered by ISJAEE overlaps with the full scope of topics presented in the International Journal of Hydrogen Energy and includes issues relating to renewable energy, non-renewable energy and environmentally friendly energy technologies.

ISJAEE covers the following topics in alternative energy: solar energy including solar–hydrogen energy, wind power, wind-hydrogen power, ocean energy (energy of ocean waves and ocean currents), geothermal energy, biomass energy, small energy, unconventional sources of renewable energy, energy systems based on renewable energy sources.

ISJAEE covers the following topics in non-renewable energy: atomic power including hydrogen atomic energy, explosive energy and thermonuclear power.

A large separate section of the journal deals with Hydrogen economy technologies.

Structural materials challenges for alternative energy including hydrogen atomic energy.

Thermodynamic principles of alternative energy including hydrogen economy are also considered.

Considerable thought is given to ecological and economic aspects of the energy sector.

The issues on developing new environmentally friendly vehicles (green vehicles) along with energy saving challenges as well as challenges in oil and gas complexes in terms of introducing latest environmentally friendly technologies including hydrogen technologies.

The journal sheds light on challenges in industrial agriculture including issues on the soil, water and air conservation by the wide-scale introduction of environmentally friendly energy technologies and hydrogen energy technologies.

Brief descriptions of every article issued in the base journal are published in the International Scientific Journal “Letters in the International Scientific Journal for Alternative Energy and Ecology” (http://elibrary.ru/title_about.asp?id=9987) in English and Russian.

The International Scientific Journal “Alternative Energy and Ecology” is approved by the United Nations. The Editor-in-chief of the journal is an appointed representative of the Russian Federation at the International Centre for Hydrogen Energy Technologies of the United Nations Industrial Development Organization, UNIDO-ICHET.

The journal has been four times granted by T. N. Veziroglu, Professor and Head of the International Association for Hydrogen Energy, IAHE (in 2000, 2003, 2014 and 2016). In 2016 the journal has been awarded with IAHE Jules Verne Award considered as the highest IAHE award (<http://www.iahe.org/awards.asp>).

The International Scientific Journal for Alternative Energy and Ecology has won various international scientific awards including The Roentgen Medal (2007) and the Diploma of the Non-governmental Ecological Fund named after

V.I. Vernadsky as well as the Diploma of the State Duma Committee on the Ecology and Environmental Protection, the Russian Energy Olympus Premium (2008) and others.

I. General Provisions

Goals and Objectives

The goal of the journal is developing and adjusting its main promising scientific thematic areas as well as its thematic sections; providing conditions to form an optimal relevant flow of manuscripts of scientific papers and reviews of maximum topicality and corresponding to the scope of topics covered by the journal; publishing scientific papers and reviews as well as information reports, scientific notes, brief notes on major scientific investigations and innovations in the field of environmentally friendly power engineering and ecology; providing an important channel of information interchange between the East (the Russian-speaking community) and the West (the English-speaking community) in the field of physico-mathematical, engineering and chemical sciences focusing on the following topics: physics, kinetics and catalysis, ecology (by sectors: engineering and chemical sciences), aircraft and space-rocket as well as power engineering.

The purpose of the journal is to publish information on major high priority scientific investigations and innovations in the field of environmentally friendly power engineering and ecology.

The primary objective of the journal is to shed light upon the priorities in the state policy that is to provide an intersectoral information platform for popularizing the experience in developing environmentally friendly regions as well as separate environmentally friendly facilities.

Peer-Review

All scientific manuscripts submitted to *The International Scientific Journal for Alternative Energy and Ecology, ISJAE* pass through the mandatory double-blind peer-review, which means that both the reviewer and author identities are concealed from the reviewers, and vice versa, throughout the peer-review process.

Each manuscript is mandatory reviewed by one reviewer from among reviewers of *The International Scientific Journal for Alternative Energy and Ecology* and one reviewer from the invited editorial boards.

Each manuscript passes through preliminary and final peer-review processes.

If any disputable situation on scientific issues arises, the manuscript will be submitted to the **Peer-Review Board** of *The International Scientific Journal for Alternative Energy and Ecology*. And should any disputable situation on the technical execution of the concept described in the paper, the latter is submitted to the **Expert Advisory Board** of *The International Scientific Journal for Alternative Energy and Ecology*.

The papers are reviewed by the editorial board members as well as guest reviewers including leading Russian and foreign experts in a specific field. The decision on the reviewer selection is made by the Editor-in-chief, the Deputy Editor-in-chief, the Science Editor and the Managing Editor. Typically the manuscript is reviewed within 5–6 months, though this period can be extended at the reviewer's request. Overall, the process of peer-review and expert evaluation along with publication of the paper shouldn't exceed 12 months. This period can be reduced to 4 months upon the recommendation written by a member of the Scientific Council. And it can be reduced to 3 months (at least 1 month) for the authors taken out an annual subscription for the journal.

The papers submitted to a competition held by the editorial board will be published **within 3 months**. Special order scientific reviews will be also published **within 3 months**.

Each reviewer can decline to review the manuscript if any apparent conflict of interests affecting the perception and the interpretation of data given in the paper arises.

The reviewer is responsible for the decision to reject or recommend the manuscript for publication (all decisions are substantiated) as follows:

- The paper is recommended for publication in its current form;
- The paper is recommended for publication after the correction of the inadequacies pointed out by the reviewer;
- The paper should be additionally reviewed by another expert;
- The paper is rejected.

In case of any recommendations on correction and revision of the paper, the editorial board of the journal sends the peer-review report to the author with a list of recommendations to be adopted or reasonably (fully or partially) rejected while preparing a new version of the paper. The revision process shouldn't exceed 2 months starting from the date the recommendations have been sent to the authors. The revised paper is submitted for the peer-review again.

If the authors decline to revise the paper, they should notify the editorial board of their decision in writing or orally. If the authors don't send back the revised manuscript at the end of 3 months period starting from the date the peer-review report has been sent, the paper will be withdrawn from records by the editorial board, even in the absence of the notification that the authors have declined to revise the paper. An appropriate notification of the withdrawal from records due to expiration of time given to make revisions will be sent to the authors in such cases.

If there is any irrepressible conflict concerning the manuscript between the author and the reviewers arises, the editorial board will have a right to submit the paper for an additional peer-review. The decision in conflict situations is made by the Editor-in-chief at the editorial board meeting or remotely.

The decision to reject the paper for publication is made at the editorial board meeting according to the reviewers' recommendations. The paper which hasn't been recommended by the editorial board wouldn't be re-reviewed. The rejection decision is sent to the author by e-mail.

After having decided to accept the paper for publication, the editorial board informs the author on this decision and sets the timeframe for its publication.

Good peer-review isn't a sufficient reason for publishing the paper. The final decision on publication will be taken by the editorial board of the journal. The decision in conflict situations will be made by the Editor-in-chief.

Final Peer-Review

After the preliminary peer-review, the papers are published on the membership website with an open access for the limited group of referees from among the International Scientific Council, or the referees from among the International Scientific Council will receive a letter with brief description of the content of the papers accepted for publication and evaluated by reviewers and experts. At the peer-review stage (within 30 days), the results of the preliminary peer-review can be reviewed by the International Scientific Council, and the corresponding author will be informed of this within 15 days. The originals of peer-review reports will be kept in the editorial board for 3 years.

The International Scientific Journal "Alternative Energy and Ecology" receives much more manuscripts than can be published. So, we ask the referees to keep in mind that while one manuscript is accepted, another good paper can be rejected. The submitted papers must meet the following requirements:

- The paper should have convincing evidence of the author's conclusion.
- The paper should have novelty.
- The paper should be of interest to scientists in a certain field.
- The paper should be of interest to researchers in other allied sciences.

The editorial board scrutinizes all submitted manuscripts. To save authors' and referees' time, only manuscripts matching editorial criteria are submitted for peer-review. The papers which may be not of interest in editors opinion or

don't match other reasonable criteria will be peeled apart without peer-review (such decisions can be based on the informal advice given by experts in a certain field).

The Reviewer Selection

The reviewer selection is rather important for publishing, so our decision may be based on various factors such as expert appraisal, reputation, specific recommendations and personal experience. For example, we don't refer to persons who works slowly, don't give due consideration to their work or don't substantiate their opinion. We check potential reviewers before submitting manuscripts for peer-review. The referees should realize that data given in the papers is confidential, and it requires due care.

Peer-Review Report

The primary purpose of peer review is to provide the editor with objective information for decision making. A peer-review report should contain recommendations to the author on the improvement of the paper for publication. The negative report should at most indicate manuscript weaknesses to authors, so that the authors whose manuscripts have been rejected could understand the reason for such a decision and see the way to improve their papers. This function is a secondary one, so the referees have no obligations to give detailed constructive foundation to the authors whose papers may not match the requirements of the journal. If the reviewer considers the paper to be not suitable for publication, his reply to the author should be in such a form that the latter could realize the reason for rejection.

Publication Fee

Publication in the journal is free for the authors. The editorial board will not charge the authors any fee for peer-review and publication of the scientific papers.

Pre-Print and Post-Print Policy

While submitting a manuscript, the author should confirm that the paper hasn't been published nor accepted for publication in another scholar journal. When citing on the Internet the paper published in *The International Scientific Journal for Alternative Energy and Ecology*, *ISJAEE*, please, include a link (full URL of the paper) to the official site of the journal.

The papers published by the authors on private or public websites unrelated to other publishes earlier may be also reviewed.

Help for Authors

- 1) Correction of English versions and Russian-English (and vice versa) translation:

Kirill Vadimovich Nazarov, professional translator certified by the Joint Editorial Board of The International Scientific Journal for Alternative Energy and Ecology, *ISJAEE* and The International Journal of Hydrogen Energy, *IJHE*, Certificate No *ISJAEE* -100-001-15 (approved by the honorary Editor-in-chief of The International Journal of Hydrogen Energy and the Editor-in-chief of The International Scientific Journal for Alternative Energy and Ecology), e-mail: 274427@mail.ru;

- 2) Creation of schemes and drawings:

Viktor Ivanovich Nemishev, artist and designer, e-mail: vinsar36@mail.ru;

- 3) Russian version full proofreading:

Polina Alexandrovna Maximova, editor, Cand.Sci.Phil, e-mail: p.maximova@hydrogen.ru.

International Representation (*geographic expansion and expansion of foreign governmental and commercial representations involved in publishing the journal*)

There could be no more than 15 publications per year submitted by one organization, although if other organizations are presented by the corporate author, a number of publications could be increased for each organization additionally in keeping with the number of partner Russian and foreign organizations presented by the corporate author.

Warranties

An author or a corporate author (no matter, whether they are subscribers or not) are published in the journal with free peer-review and publication of the Russian version.

1. The paper is published in full color.
2. The paper could be republished in English upon the author (corporate author) request if it has been approved by the joint editorial board of the translated partner journals IJHE (USA), Solar Energy (USA), Renewable Energy (Ukraine), In Applied Solar Energy (ASE, Uzbekistan) and other foreign journals with relative topics as follows:
 - In IJHE (USA) (papers on hydrogen economy);
 - In Solar Energy (USA) (papers on solar energy);
 - In Renewable Energy (Ukraine);
 - In Applied Solar Energy (ASE, Uzbekistan) (for articles on solar energy).
3. If the paper has been accepted by the joint editorial team of the translated partner journals including The International Journal of Hydrogen Energy, IJHE, USA [Elsevier], Solar Energy, SE, Canada, [Elsevier], Renewable Energy, Ukraine, Applied Solar Energy, ASE, Uzbekistan [Springer] and other foreign journals with relative topics, a certificate on submission of the paper for publication in the translated journals approved by the joint editorial team is issued within one week from the date of submission.
4. If the paper has been approved by the joint editorial team of the translated partner journals including The International Journal of Hydrogen Energy, IJHE, USA [Elsevier], Solar Energy, SE, Canada, [Elsevier], Renewable Energy, Ukraine, Applied Solar Energy, ASE, Uzbekistan [Springer] and other foreign journals with relative topics, a certificate on submission of the paper for publication in the translated journals is issued within one week from the date of submission.
5. Two or more issues of The International Scientific Journal for Alternative Energy and Ecology could be sent to the author upon his/her request (the issues would be paid by the author or corporate author with 50% discount).
6. The editors also undertake executing the following pieces of work and services: peer-review, expertize, abstracting in The International Scientific Journal “Letters in ISJAE”) in Russian and English); abstracting in the International Scientific Abstract Journal “Life and Ecology”; indexing in the author and topics ranking in the year-end closing issue of The International Scientific Journal for Alternative Energy and Ecology; prepress; information publication and distribution in Russian and English; DOI identifier assignment; sending printed and digital versions of the issue to VINITI agencies for information recording, indexing and abstracting; abstracting in other abstract publications; sending a mandatory copy of the journal to the Russian Book Chamber; sending to the National Libraries (which signed an Agreement); delivering mandatory printed and digital copies of the journal to the subscribers.

Section 1: Preliminary Peer-Review Process

Each manuscript is recorded by an executive editor in the registry assigning a four-digital number, e.g. **Registration No. 0687 dated August 23, 2009** (currently the registration is available via Internet on the website: <http://www.isjaee.com/jour/user/register>. The letter of notification will be sent to the author in this case). After the manuscript registration, the Certificate of Acceptance according to Form 16 ISJAEE is sent to the authors. The Certificate of Acceptance notifies the corporate author that their manuscript has been recorded. After the manuscript has been reviewed by the Editor-in-chief and the editors, it is submitted to the corresponding department of The International Scientific Journal for Alternative Energy and Ecology for formal examination along with an accompanying letter. The author and the editorials should refer to the registration number in their further correspondence.

Then, the manuscripts are submitted to the Review Council and the Expert Council.

The paper is published in the journal at the end of the extra peer-review process as well as the Review Council and the Expert Council approval.

The journal may publish the original papers only. The author is responsible for the compliance with this requirement.

Section 2: Submission Process

In order that the issue of the journal is published in time, please follow the Requirements for structure, format, content, and style of the journal-style scientific paper listed below:

1. Manuscripts should be submitted in electronic format online via <http://www.isjaee.com/>only.

The authors who submit their manuscripts and the documents packages online for the first time should register on <http://www.isjaee.com/jour/user/register>.

The username and the password should be remembered for further handling the manuscript online via Personal Account of the author/corporate author.

After registration the paper could be submitted to the editors online via <http://www.isjaee.com/jour/login?source=%2Fjour%2Fauthor%2Fsubmit>

The proper username and password should be entered in a strict compliance with all registers and the keyboard layout chosen during registration. The system is very sensitive to any typing mistakes, so the authors should be very carefully while typing their usernames and passwords.

2. The scanned copy of the manuscript in PDF should contain the signatures of the authors.

Manuscript Length:

- brief notes should be up to 3 pages (1 page = 1,800 printed characters);
- the length of the paper shouldn't exceed 5-7 pages;
- letters to the editors should be up to 4 pages;
- the length of scientific reviews shouldn't exceed 15-18 pages.

3. Manuscripts should be accompanied by:

- An accompanying letter written by the head of the organization introducing the manuscript;
- An official expert report or other document permitting public media publication (1 copy) affirmed by the head of the organization and certified by the official stamp of the organization.

The official expert report should be provided by the authors from Russia only.

4. An Abstract (not less than 600 printed characters) should be printed in Russian and English in Times New Roman (12pt.) in one file in the following order: the title, authors, organization, abstract in Russian; then, skipping 2

lines, the same should be written in English in the same order. An abstract should be written in indicative and mandatory contain the following: research area, theoretical statements, experimental research, basic results and probable consumers of the result.

5. An Author Resume should be printed in Russian and English in Times New Roman (10pt.) and contain the following: workplace, job position, education, academic rank, academic degree, scientific awards, job experience, basic area of expertise, number of each author's publications. It is desirable to include ORCID, h-index, Research ID, SPIN and other journal metrics. It is also important to include links to personal accounts of the authors on Research Gate, Mendeley and other scientific social networks.

6. The Authors' Photos for the resume should be mandatory provided in color in TIFF or JPEG formats.

Photo

(Close-up portrait)

Author's initials, followed by the last name (in English and Russian).

Author Information: academic degree, job position and workplace.

Education: university, graduation year.

Research Area: in connection with the scope of topics covered by the journal.

Publications: number

Author Information:

Education:

Research Area:

Publications:

7. Text Abstract (one page) for publication in abstract journals "Letters in the International Scientific Journal for Alternative Energy and Ecology" and VINITI in English.

Page setup:

- **Paper size** A4 (210 × 297 mm);
- **1.5 line spacing;**
- **Times New Roman Font**, (12pt.) in one file in the following order: title, authors, organization, abstract in Russian; then, skipping 2 lines, the same should be written in English in the same order.

8. Internet Report for publishing advanced information on Information Portal "Hydrogen" as well as on websites devoted to power engineering and ecology. The report should be no more than 1 page in length and written informal as follows:

- **Paper size** A4 (210 × 297 mm);
- **1.5 line spacing;**
- **Times New Roman Font**, (12pt.).

A report may contain figures and diagrams.

Section 3: Manuscript Style

The editorial board recommends that the authors of scientific reviews and papers should submit manuscripts divided into sections using subheadings (e.g. INTRODUCTION, THEORETICAL STUDY, EXPERIMENTAL PROCEDURE, RESULTS AND DISCUSSION, CONCLUSION and REFERENCES).

The text of the paper should be edited by the author carefully, and repetitions should be avoided as well as illustrative materials shouldn't be described in details;

The text should be printed on white paper:

- **Paper size** A4 (210 × 297 mm);
- **1.5 line spacing;**
- **Times New Roman Font** (12pt.).

A manuscript may contain figures and diagrams.

A manuscript text should be arranged in the following order:

- **Universal Decimal Classification Code (UDC or PACS);**
- **The title in English and Russian** (in capital letters without quotation marks, 14pt., bold, center text-align; word wrap as well as underline is not allowed; no dot at the end of the line);
- **Authors** (Name, 14pt. bold italics, center text-align, no dot at the end of the line);
- **Organization Name, Address, City, Country, Post Code, Phone and Fax No., e-mail** (12pt., center text-align. If the authors represent different organizations, superscripts should be used, for example: A.V. Ivanov, Yu.S. Sedov*);
- **Section Title** (14pt., left text-align, no dot);
- **The text** of the paper: 12pt., first line indent 0.5 cm, justify text-align;
- **Subtitle** (italic, 14pt., left text-align);
- **References** (regular font, 14pt., center text-align).

The References Section should contain references to the works of domestic and foreign authors (to the papers published in scientific journals indexed in Global Science Citation Indices), while patents should contain not less than 20 references.

Generally accepted scientific terms, unit measures and symbolic notations should be used while writing the paper. **The definition of all (!) notations used by the author should be listed in Table of Notations alphabetically.**

While typing the paper, all Latin symbols for physical quantities (A , I , d , h etc.) should be set up in italic, and Greek Letters as well as function names (β , \sin , \exp , \lim), chemical elements (H_2O) and unit measures (MW/cm^2) should be set up in regular font. Special symbols (\Re , \wp , \otimes , \in etc.) should be described in the margin.

A manuscript should mandatory contain the **Table of Notations**.

An example of Table of Notations

NOMENCLATURE	
<u>Latin Letters</u>	
G	Conveying channel geometry
H	HPP discharge head
ΔH	Head loss
i	Estimate time
<u>Greek Letters</u>	
η	Hydraulic unit efficiency
φ	Energy loss due to the mutual interaction of wind turbines
<u>Russian Letters</u>	
Θ	Power generation
$\Delta\Theta$	Energy loss
<u>Subscripts</u>	
wt	Wind turbine

Tables, Figures and Images (only colored!!!) should be arranged within the text and have a continuous numbering through the whole paper (not Sections) along with proper headings. The letter-digit numbering (1a, 2b) is undesirable. **All figure, image and table captions should be written in Russian and English!!!**

The numbering of notes in Figure should be done in numerical order clockwise (counterclockwise) (for schemes) or top-down (bottom-up). Image files should be given in TIFF or BMP (maximum quality) with resolution not less than 300dpi.

Formulas should be created by means of the built-in equation editor (Math Type, Microsoft Equation) putting numbers in parentheses (2) and center text-aligned; **the definition of all symbols (letters) in formulas should be given in the order of their occurrence in the formula.**

Formulas should be carefully typed.

To avoid any misunderstandings and errors, the editorial board recommends that the authors would use Latin, Greek and other (not Russian) letters in formulas.

An example of Figure in the paper:

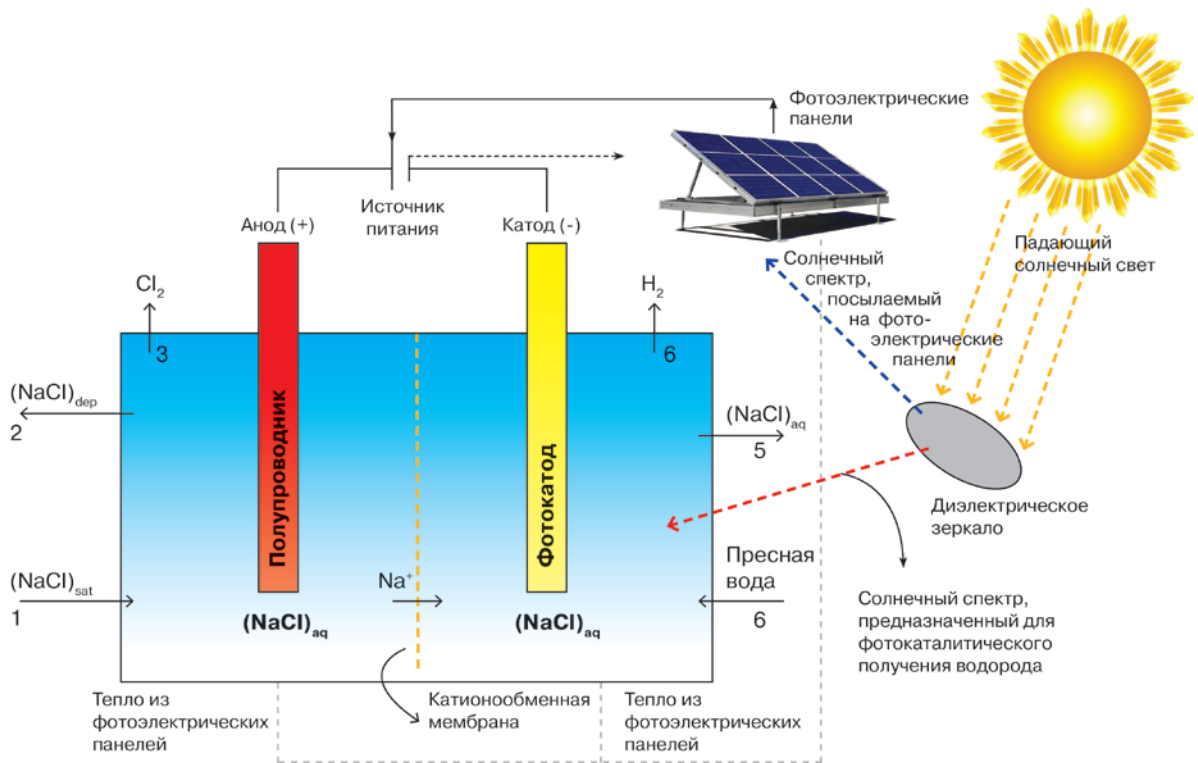


Figure1: A schematic of the continuous type hybrid photoelectrochemical reactor

An example of Curves in the paper:

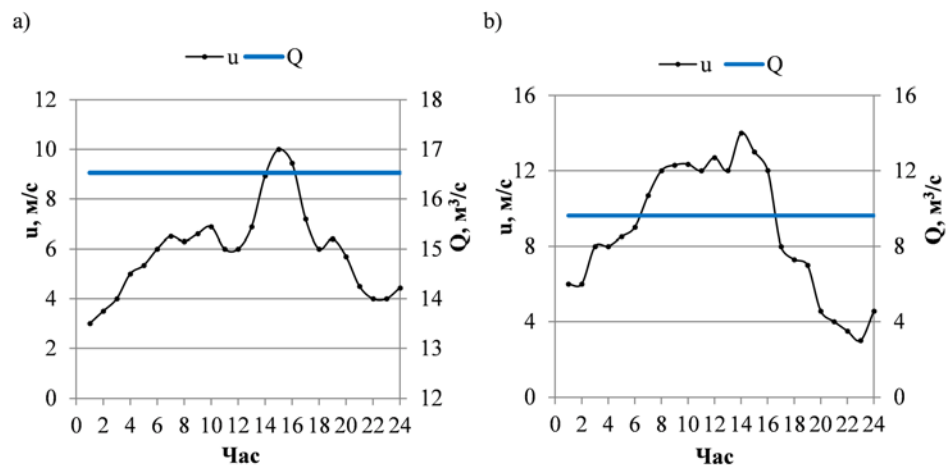


Figure 1: Wind speed and river flow daily variation: a – June, b - December

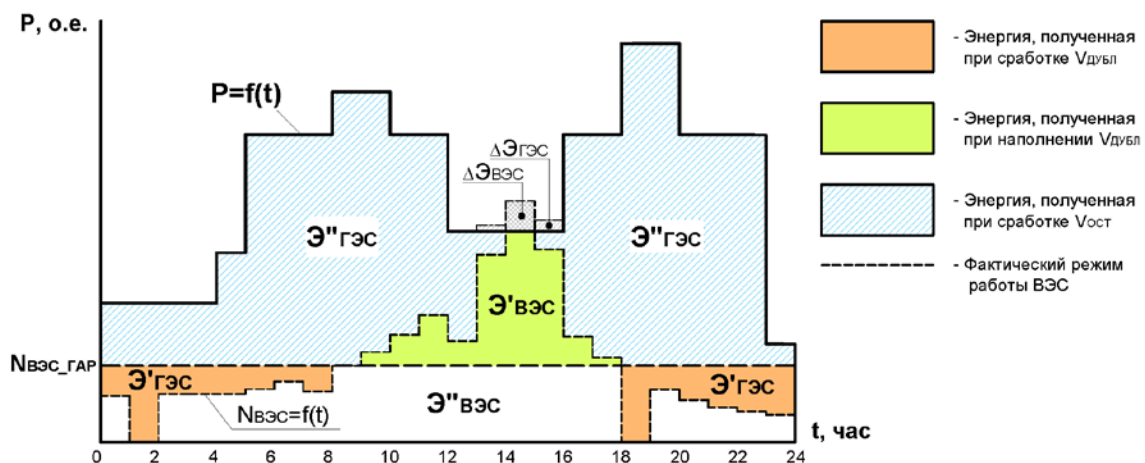


Figure 1: WPP/HPP power system daily-load and output curve

An example of Formula in the paper:

$$\begin{cases} \mathcal{E}'_{ГЭС_i} = \frac{\mathcal{E}_{ВЭС_k}}{24} - \mathcal{E}_{ВЭС_i}, & \text{при } \mathcal{E}_{ВЭС_i} \leq \frac{\mathcal{E}_{ВЭС_k}}{24}, \\ \mathcal{E}'_{ВЭС_i} = \mathcal{E}_{ВЭС_i} - \frac{\mathcal{E}_{ВЭС_k}}{24}, & \text{при } \frac{\mathcal{E}_{ВЭС_k}}{24} \leq \mathcal{E}_{ВЭС_i}, \\ \sum_{i=1}^{24} \mathcal{E}'_{ГЭС_i} = \sum_{i=1}^{24} \mathcal{E}'_{ВЭС_i}, \end{cases} \quad (1)$$

where $\mathcal{E}_{ВЭС_k}$ – is daily WPP power generation per design day k .

An example of a Diagram in the paper:

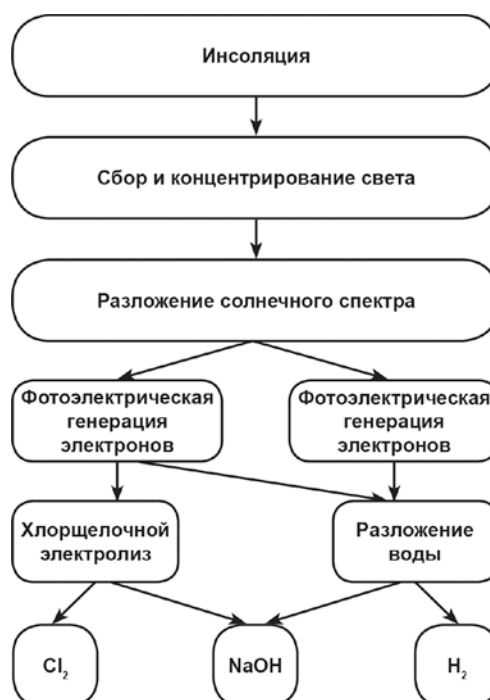


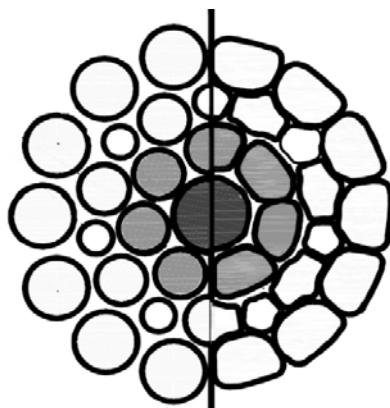
Figure 1: An operation scheme for the hybrid reactor

An example of a Table in the paper:

Table 4: Mass flowrate and concentration of solutions

Flow	Definition	Mass flowrate (kg/s)	Concentration (kg of matter/kg of solution)
1	Saturated solution of NaCl at the input	\dot{m}_1 : входной, известен	xs1: saturated solution, known
2	Solution of NaCl at the output	$\dot{m}_2 = \frac{(1-x_{S1})}{(1-x_{S2})} \dot{m}_1$	xs2
3	Chlorine gas at the output	$\dot{m}_3 = 0,61 \frac{(x_{S1}-x_{S2})}{(1-x_{S2})} \dot{m}_1$	
4	Fresh water at the input	$\dot{m}_4 = \frac{0,68-0,35x_{S5}}{x_{S5}} \frac{(x_{S1}-x_{S2})}{(1-x_{S2})} \dot{m}_1$	
5	NaOH solution at the output	$\dot{m}_5 = \frac{0,68}{x_{S5}} \frac{(x_{S1}-x_{S2})}{(1-x_{S2})} \dot{m}_1$	xs5
6	Hydrogen at the output	$\dot{m}_6 = 0,02 \frac{(x_{S1}-x_{S2})}{(1-x_{S2})} \dot{m}_1$	

An example of an image and graphic elements in the paper



a



b

Figure 1: Types of catenary wires: *a*) round and *b*) compacted

References

Bibliographical references should be listed in the order of occurrence in the text [3] and arranged in compliance with the following rules:

I. Books

1. Books written by one, two or three authors should be described under the first author's name:
 - The book written by one author:
Chadaeva L.A. *Quantum Mechanics: A Textbook for Bachelors*, (3rd Edition). Moscow: Urait Publishing House, 2011, p. 300, (in Russian).
 - The book written by two authors:
Nekhayev G.A., Zakharova I.A. *Metal Constructions*. Moscow: ASV Publishing House, 2010, p. 140, (in Russian).
2. Books written by four and more authors should be pointed out under the title (heading) of the book. One author's name and the phrase [and others] should follow the book title after slash (in Russian) or dot (in English).
3. Books written by a corporate author (or the author isn't indicated) should be pointed out under the title (heading) of the book. The editor, compiler or other responsible person's name should be written after slash (dot) in this case.
 - *Analysis and Diagnostics of the Enterprise's Activities: A Textbook*. Edited by Pozdnyakov V.Ya. Moscow: Infra-M, 2010, p. 617, (in Russian).

II. Journal Papers

While describing journal papers, the author and the title should be pointed out followed by the title, the date and the issue number as well as the pages of the journal where the paper has been published.

- The paper written by one author:
Pantzkhava Yu.S. Biogas Technologies: Efficient Ecology, Power-Engineering and Agrochemistry Problems Solving. *Teploenergetika* 11, 1994, pp. 36-42, (in Russian).
- The paper written by two authors:
Geletukha G.G., Zheleznyaya T.A. A Review on Biomass Gasification Technologies [Text]. *Ecotechnologies and Resource-Saving* 2, 1998, pp. 21-29, (in Russian).
- The paper written by four or more authors:
Batenin V.M. [and others]. Pyrolytic Conversion of Biomass into Gas Fuels. *Proceedings of the Russian Academy of Sciences* 2, 2012, Vol. 446, pp. 179-182, (in Russian).

III. Papers from Books and Collections

- The paper from the book written by one author:
Katuyev V.D. Renewable Energy. *Katuyev V.D. Renewable Energy: Guidance Manual*. Moscow, 2001, pp. 207-451, (in Russian).
- The paper from the book written by two authors:
Bezuglov A.A. The President of the Russian Federation. Bezuglov A.A., Soldatov S.A. *Constitutional Law of the Russian Federation: Textbook for Law Schools (Full-Time Course): in 3 Volumes*. Moscow, 2001, Vol.3, pp. 137-370, (in Russian).
- The paper from the book written by three or more authors:
Grigoryev F.V. Solar Energy. *Grigoryev F.V., Bagun M.A., Mikhaylov L.I. Municipal Property Management: Guidance Manual*. Moscow, 2003, pp. 200-302, (in Russian).
Hydrogen Economy Program. Polman V.G. [and others]. *Prospects for Hydrogen Economy*. Edited by V.G. Polman, Moscow, Ch.3, pp.56-130, (in Russian).

IV. Official Editions

The Constitution of the Russian Federation: Adopted by National Referendum on December 12, 1993. Moscow: Eksmo Publishing House, 2013, p. 63, (in Russian).

The Criminal Code of the Russian Federation (as amended up to September 23, 2013). Moscow: Omega-L Publishing, 2013, p. 193, (in Russian).

On Celebration of Youth Day: The Decree of the President of the Russian Federation No. 1383 dated September 18, 2008. The Herald of Russia's Education 20 (Oct.), 2008, pp. 13-14.

V. Standard Technical and Technical Documents

GOST R 517721-2001: Domestic Radioelectronic Equipment. Input and Output Parameters and Types of Connectors. Technical Requirements, Introduction Date: January 1, 2002. Moscow: Standards Publishing House, p. 27, (in Russian).

Or

Domestic Radioelectronic Equipment. Input and Output Parameters and Types of Connectors. Technical Requirements: GOST R 517721-2001 introduced on January 1, 2002. Moscow: Standards Publishing House, p. 27, (in Russian).

Patent 2187888 RF. The Transceiver. V.I. Chugaeva, Voronezh Scientific Research Institute of Communication: No. 2000131736/09; appl. 18.12.00, publ. 20.08.02, Bull. Number 23 (II h), p. 3 (in Russian).

VI. References Found in Electronic Form

- **CD-ROM:**

Dal V.I. *The Explanatory Dictionary of the Living Great Russian Language.* Moscow: AST Publishing House, [CD-ROM], (in Russian).

- **Electronic Journal:**

Krasnov I.S. Methodological Aspects of Healthy Lifestyle of Russian People. *The Scientific and Methodological Journal "Physical Training" 2 (Online).* 2013. Available at <http://sportedu.ru>. [Accessed February 5, 2014].

- **Website:**

Protection of Personal Data of Users and Employees of the Library (Online). Available at <http://www.nbrkomi.ru>. [Accessed April 14, 2014].

Steel Structures. General Requirements [Electronic Resource]. GOST RF 23118-2012. Introduced on July 1, 2013. Available at CODEX-Client System.

On Approval of the Recommendations on Filling in a Notice of Processing (Intention to Process) Personal Data [Electronic Resource]. The Order No. 08 of July 17, 2008 (ed. February 18, 2009) of the Federal Service for Supervision of Communications, Information Technology, and Mass Media. Available at the GARANT System.

VII. Theses and Author's Abstracts

The author's name and initials as well as the thesis title, academic degree, place of thesis defence (city) and the year; for pre-prints – title, place of publication, year and number.

Gorshkova T.I. *Thermodynamic Properties and Application of Various Cerium Alloys.* Author's abstract of Sc.D. thesis (Chemistry). Moscow, 1976, (in Russian).

Section 4: Electronic Submission Guidelines

An author should submit a mandatory file pack to the Editor-in-chief (e-mail: gusev@hydrogen.ru).

The mandatory file pack should contain:

1. Manuscript.

File should be named as follows (e.g.): **Article#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

'Article#1' is a manuscript number assigned by the author (there could be several manuscripts on one electronic medium)

'Gusev AL' is the first author's name and initials

'Hydrogen detectors' are the first two words from the title

'(1300)' is a number of the thematic scope or topic section from Thematic Scope of the Journal (given at the end of each issue of the journal).

2. Summary

File should be named as follows: **Summary#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Summary#1**’ means that the Summary belongs to the specific manuscript with the given number. The other is as in i.1

3. Abstract

File should be named as follows: **Abstract#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Abstract#1**’ means that the Abstract belongs to the specific manuscript with the given number. The other is as in i.1.

4. Resume

File should be named as follows: **Resume#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Resume#1**’ means that the Resume belongs to the specific manuscript with the given number. The other is as in i.1.

5. Pictures

File should be named as follows: **Pictures#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Pictures#1**’ means that the Pictures belong to the specific manuscript with the given number. The other is as in i.1.

6. Permission

File should be named as follows: **Sanction#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Sanction#1**’ means that the Permission belongs to the specific manuscript with the given number. The other is as in i.1.

7. Internet Report

File should be named as follows: **Internet#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Internet#1**’ means that the Internet Report belongs to the specific manuscript with the given number. The other is as in i.1.

8. Agreement

File should be named as follows: **Agreement#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Agreement#1**’ means that the PDF version of the Agreement report belongs to the specific manuscript with the given number. The other is as in i.1.

9. Manuscript Transmittal Form

File should be named as follows: **Form#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Form#1**’ means that the PDF version of the Manuscript Transmittal Form belongs to the specific manuscript with the given number. The other is as in i.1.

10. Photos

File should be named as follows: **Photos#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Photos#1**’ means that the Photos belong to the specific manuscript with the given number. The other is as in i.1.

11. Outside Organization Reviews

May be used mainly to show the value of the paper and the amount of the executed correctives according to the recommendations

File should be named as follows: **Reviews#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Reviews#1**’ means that the Outside Organization Reviews belong to the specific manuscript with the given number. The other is as in i.1.

12. Keywords

File should be named as follows: **Keywords#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘**Keywords#1**’ means that the Keywords belong to the specific manuscript with the given number. The other is as in i.1.

13. An Accompanying Letter written by the head of the organization introducing the manuscript (or by the author in case the author is a private individual)

File should be named as follows: **Letter#1.Gusev AL. Hydrogen detectors. (1300)**

Where:

‘Letter#1’ means that the Accompanying Letter belongs to the specific manuscript with the given number. The other is as in i.1.

Please note!!!

The electronic version of all the documents mentioned above will be sufficient, and the hard copy is not required. The editorial board points to the fact that any disregard of the rules listed above may delay publication and result in rejection of the manuscript!!! The rejected manuscripts won't be returned to the authors.

Once the manuscript has been rejected, the author could send a notification along with the revised paper in compliance with editors' requirements (the same registration number will be reserved in this case), and the order of priority will be restored.

Section 5: Electronic Submission Guidelines

Section 5. Editors Obligations owed to the Higher Attestation Commission

The editorial board does commit to providing:

1. Availability of review institutions (for manuscript expert review). The editors should provide reviews upon the authors' request as well as to the Expert Councils in the Higher Attestation Commission at the Russian Academy of Sciences.

2. Transparency.

The network version of the Journal Availability is available at <http://isjaee.com>. The Abstracts, Keywords and Author Resumes of the paper should be freely available on the Internet in Russian and English, while full text versions of the papers should be freely available for all users or for the subscribers only, but not earlier than one year after their publication.

3. Reporting on the papers published in the journal in due form to Russian Science Citation Index on a regular basis.

4. An obligatory noting of the editorial board or Council members with reference to academic degree and academic rank on the journal website.

5. An obligatory noting of the authors' workplace and contacts.

6. Constant publication frequency.

7. Availability of References in all papers in compliance with current Standards.

8. Availability of Keywords in Russian and English in each publication.

9. Availability and strict compliance with the Publication Rules by the authors.

10. The author will be notified in a form of the motivated refusal in case his manuscript is rejected.

11. Availability of ISSN 1608-8296.

12. Availability of the following subscription indices: Rospechat 20487, the Union Catalogue "Press of Russia" 41935, the Catalogue of Russian Press "Russian Post".

13. Developing specialization in the following sciences:

- Physico-Mathematical sciences,
- Engineering sciences,
- Chemical sciences;

By the type of specialization:

- Physics,
- Kinetics and Catalysis,
- Ecology (by sectors: Engineering and Chemical sciences),
- Aircraft and Space-Rocket Engineering,
- Power Engineering.

Please, note!

In order to speed up the approval of proofs, the authors should provide all possible contacts (Mobile Telephone, Skype, Fax, e-mail etc.). If the author is going to leave for business trip or vacation, he/she should notify the editorial board of the person responsible for proofs approval.

Appendix No. 1

Publication Ethics of the International Scientific Journal “Alternative Energy and Ecology” (1st Edition)

**Approved by
The Committee on Publication Ethics (COPE) on January 20, 2014**

Ethics of scientific publishing

The International Scientific Journal “Alternative Energy and Ecology” code of ethics is a set of rules establishing the basic principles and value cues for all participants of the scientific publishing process. The authors’ behaviour and mutual relations between authors, reviewers, editors and readers of the journal could be controlled by it.

The abidance by these rules is mandatory, since it may result in publishing quality improvement and maintain trust and confidence of the scientific community and the society upon the whole.

The editorial board of the International Scientific Journal “Alternative Energy and Ecology” not only pursues a proper policy but also recognizes the necessity to track all instances of ethical principles violation by the editorial board members as well as by the authors. Violation of these principles may have a negative impact on all participants of the scientific publishing process: sanctions may be imposed on a violator by his colleagues, his reputation may be damaged, and his activities may give rise to a chain of errors which would harm not only science but the society as well.

The basic ethical principles of the International Scientific Journal “Alternative Energy and Ecology” are the following:

- Honesty;
- Politeness;
- Good faith;
- Objectiveness;
- Confidentiality;
- Sound skepticism;
- Competence;
- Professionalism.

These principles have their features and should be realized particularly by each participant of the scientific publishing process including authors, reviewers, referees, editors and readers of the journal.

The editorial board of the International Scientific Journal “Alternative Energy and Ecology” has taken COPE recommendations, COPE code of ethics and code of ethics of other publishers into consideration while composing its code of ethics.

Violation of Publication Ethics

- Fabrication and falsification of data: fictitious data.
- Plagiarism: the use of borrowed concepts and works (copying of at least one sentence from the paper of the other author or of his/her own paper published earlier will be considered plagiarism).
 - Submission of one manuscript to several journals.
 - Duplicative publications of similar manuscripts based on the same experiment.
 - Wrong authorship detection: it is necessary to point out every person who has made a significant scientific contribution including students and laboratory assistants.

The editorial board of the International Scientific Journal “Alternative Energy and Ecology”, ISJAEE can examine the text by means of the Anti-Plagiarism System while reviewing a manuscript. In case of detecting numerous borrowings, the editors will act in compliance with COPE standards.

Information Disclosure Policy and Conflict of Interests

Unpublished data obtained from the submitted manuscripts couldn't be used in private research without written approval of the author. Data or concepts obtained in the course of peer-review and related to possible advantages should remain confidential and shouldn't be used to derive any personal benefit.

Reviewers shouldn't take part in the peer-review process if any apparent conflict of interests arises.

Appendix No. 2

Editorial Policy

The editorial board of the International Scientific Journal “Alternative Energy and Ecology” realizes the relevance of the issues related to energy and ecological crises which reflect a confrontation between human beings and nature most fully. The transition to alternative energy sources – renewable and almost inexhaustible – could soften the density of this conflict. The editorial board of the journal takes social responsibility by joining international community in its efforts to solve problems of resource scarcity and environmental protection while aiming for making its own contribution to the development of this branch of knowledge and production.

The main objectives of the journal as an edition dealing with ecological issues are assistance in environmental protection as well as reaching out the truth along with incrementing scientific knowledge as an academic edition.

The editorial policy of the journal devoted to research in the field of alternative energy and ecology is focused therefore on solving the following problems:

- Attracting attention of the society represented by the readers to the most relevant and promising trends of alternative energy and ecology;
- Publishing papers on relevant topics covering not only theoretical but also applied issues;
- Providing scientists all over the world with a possibility to share the results of their research;
- Selecting the valuable papers by means of peer-review;
- Increasing the amount of high-grade academic publications;
- Contributing to strengthening international scientific cooperation and maintaining of scientific communication;
- Developing the mutual cooperation of authors, publishers and readers;
- Improving the journal constantly.

The editorial board of the International Scientific Journal “Alternative Energy and Ecology” pursues an independent editorial policy based on Publication Rules and Publication Ethics which have been intended to make joint participation of authors, reviewers, referees, publishers and readers in the scientific publishing process more efficient and transparent conforming ethical standards established in the scientific community. The editorial board admits a claim to comply with Publication Ethics and does it best to prevent their violation.