

ВЫСШЕЕ образование вРоссии

6/2020

НАУЧНО-ПЕДАГОГИЧЕСКИЙ ЖУРНАЛ
Vysshee obrazovanie v Rossii / Higher Education in Russia

Содержание

Contents	3
----------------	---

Направления модернизации высшего образования

Г.Н. МОТОВА. Охранники или проводники? Новые требования для аккредитационных агентств по обеспечению качества образования.....	9
А.В. БЕРЕСТОВ, А.И. ГУСЕВА, В.М. КАЛАШНИК, В.И. КАМИНСКИЙ, С.В. КИРЕЕВ, С.М. САДЧИКОВ. Проект «национальный исследовательский университет» – драйвер российского высшего образования	22

Высшее образование: критический дискурс

Б.А. САЗОНОВ. Организация образовательного процесса: возможности индивидуализации обучения.....	35
С.К. БЕКОВА, Е.А. ТЕРЕНТЬЕВ. Аспирантское образование: международный опыт и возможности его применения в России	51

Инженерная педагогика

Ф.Т. ШАГЕЕВА, Е.С. МИЩЕНКО, Н.Г. ЧЕРНЫШОВ, К.Е. НУРГАЛИЕВА, К.М. ТУРЕХАНОВА, Е.Т. ОМИРЖАНОВ. Международный проект ENTER: новый подход к педагогической подготовке преподавателей инженерных дисциплин	65
---	----



J.C. QUADRADO, M.F. GALIKHANOV, K.K. ZAITSEVA.

Sustainable Development Principles for Engineering

Educator 75

Соучредители: Московский
политехнический
университет;

*Ассоциация технических
университетов*

Партнёры:

НИИУ МИФИ,

*ННГУ им. Н.И.Лобачевского,
КНИТУ,
РГГУ,
ТвГУ,
РосНОУ*

*Главный редактор:
М. Б. Сапунов*

*Зам. главного редактора:
Е. А. Гогоненкова
Н. П. Лябина*

*Редакторы:
О. Ю. Миронова
Н. Н. Жильцов*

*Ответственный секретарь:
Д. В. Давыдова*

*Адрес редакции:
127550, Москва,
ул. Прянишникова, д. 2А*

*Юридический адрес:
107023, Москва,
ул. Б. Семёновская, д. 38
Тел.: (495)-223-05-23,
доб. 4141, 4142, 4078
e-mail: vovrus@inbox.ru
vovr@bk.ru*

*Журнал зарегистрирован
в Роскомнадзоре
Рег. св. ПИ № ФС7754511
от 17 июня 2013 года*

*Подписано в печать с
оригинала-макета 27.05.2020
Усл. п. л. 11. Тираж 600 экз.*

*Отпечатано в ФГУП
«Издательство «Наука»
(Типография «Наука»).
Адрес: 121099, Москва,
Шубинский пер., д. 6.
Зак. №*

*© «Высшее образование
в России»*

*www.vovr.elpub.ru;
www.vovr.ru*

Педагогика высшей школы

Е.И. САХАРЧУК, Е.А. БАЙКИНА. Функциональная
характеристика системы оценочных средств
в условиях реализации модульных образовательных
программ вуза 83

О.А. ОРЕШКИНА, П.В. СЛИТИКОВ. Сравнительный
анализ подходов к обучению студентов с нарушением
слуха и студентов без нарушений здоровья в техническом
вузе 92

И.Е. АБРАМОВА, О.М. ШЕРЕХОВА. Обучение
диалогу и полилогу на английском языке студентов-
нелингвистов 102

Университет и регион

*Педагогическое образование в контексте проекта
«Большой университет»* 112

**А.Н. МАКАРЕНКО, А.С. СМЫШЛЯЕВА, Н.Н. МИНАЕВ,
О.М. ЗАМЯТИНА.** Цифровые горизонты развития
педагогического образования 113

**М.С. ГОРБУЛЁВА, И.В. МЕЛИК-ГАЙКАЗЯН,
Н.А. ПЕРВУШИНА.** Инициативы педагогической
биоэтики 122

**М.Г. МИНИН, Е.О. ФРАНЦУЗСКАЯ, А.С. МИНИЧ,
К.А. СМЫШЛЯЕВ, А.В. СМЫШЛЯЕВ.** Экспорт
высшего образования: инновации в практике
физического воспитания 129

Интернационализация образования

**И.А. СЕЛИВАНОВА, И.Ю. МАРКОВИНА,
И.Р. ИЛЬЯСОВ, А.К. ЖЕВЛАКОВА, Р.П. ТЕРЕХОВ.**
Валидация тестовых заданий в условиях экспорта
образования 136

Н.Л. АНТОНОВА, А.Д. СУЩЕНКО. Академическая
репутация университета как фактор лидерства
на глобальном образовательном рынке 144

С.С. ДОНЕЦКАЯ, М. ЛИ. Китайские студенты за рубежом:
динамика численности и цели выезда 153

Contents***Areas of Higher Education Modernization***

- G.N. MOTOVA. New Requirements for Accreditation Agencies on Education Quality Assurance. Pp. 9-21
 A.V. BERESTOV, A.I. GUSEVA, V.M., KALASHNIK, V.I. KAMINSKY, S.V. KIREEV, S.M. SADCHIKOV. Project “National Research University” – Driver of Russian Higher Education. Pp. 22-34

Higher Education: Critical Discourse

- B.A. SAZONOV. Organization of the Educational Process: Opportunities for Individualization of Training. Pp. 35-50
 S.K. BEKOVA, E.A. TERENTEV. Doctoral Education: International Experience and Opportunities for Its Implementation in Russia. Pp. 51-64

Engineering Pedagogy

- F.T. SHAGEEVA, E.S. MISHCHENKO, N.G. CHERNYSHOV, K.E. NURGALIEVA, K.M. TUREKHANOVA, E.T. OMIRZHANOV. International ENTER Project: A New Pedagogical Training Approach for Engineering Educators. Pp. 65-74
 J.C. QUADRADO, M.F. GALIKHANOV, K.K. ZAITSEVA. Sustainable Development Principles for Engineering Educator. Pp. 75-82

Higher Education Pedagogy

- E.I. SAKHARCHUK, E.A. BAYKINA. Functional Characteristics of the Assessment Tool System in the Context of Modular Educational Programs Implementation. Pp. 83-91
 O.A. ORESHKINA, P.V. SLITIKOV. Comparative Analysis of Approaches to Teaching Students with Hearing Impairments and Students without Disabilities at a Technical University. Pp. 92-101
 I.E. ABRAMOVA, O.M. SHEREKHOVA. Teaching Dialogue and Polylogue to Non-Linguistic Students: Competence-Based Approach. Pp. 102-110

University and Region

- Teacher Training in the Context of “Big University” Project.* P. 112
 A.N. MAKARENKO, L.G. SMYSHLYAEVA, N.N. MINAEV, O.M. ZAMYATINA. Digital Horizons in Teacher Education Development. Pp. 113-121
 M.S. GORBULEVA, I.V. MELIK-GAYKAZYAN, N.A. PERVUSHINA. Pedagogical Bioethics Initiatives. Pp. 122-128
 M.G. MININ, E.O. FRANTCUZSKAIA, A.S. MINICH, K.A. SMYSHLYAEV, A.V. SMYSHLYAEV. Export of Higher Education: Innovations in Physical Education Practice. Pp. 129-135

Internationalization of Education

- I.A. SELIVANOVA, I.Yu. MARKOVINA, I.R. ILYASOV, A.K. ZHEVLAKOVA, R.P. TEREKHOV. Test Items Validation in the Context of Education Export. Pp. 136-143
 N.L. ANTONOVA, A.D. SUSHCHENKO. University Academic Reputation as a Leadership Factor in the Global Educational Market. Pp. 144-152
 S.S. DONETSKAYA, M. LI. Chinese Students Abroad: Dynamics of the Number and Aims of Educational Travel. Pp. 153-168

*Co-founders:*

Moscow Polytechnic University,
 Association of Technical
 Universities. Founded in 1991

Editor-in-Chief:
 M.B. Sapunov

Deputy Editors-in-Chief:
 E.A. Gogonenkova,
 N.P. Lyabina

Executive secretary:
 D.V. Davydova

Editors:
 O.Yu. Mironova
 N.N. Zhiltsov

Editorial office. Postal address:
 2A, Pryanishnikova str., Moscow,
 127550, Russian Federation
 tel. +7 (495)-223-05-23,
 extension 4078
 e-mail: vovr@inbox.ru,
 vovr@bk.ru
www.vovr.elpub.ru;
www.vovr.ru

Legal address:
 38, Bolshaya Semenovskaya,
 Moscow, 107023, Russian
 Federation

The journal's registration by The Federal Service for Supervision of Communications, Information Technology and Mass Media was renewed on 17 June 2013.

The Certificate of Mass Media registration: No. FC 7754511

**ISSN 0869-3617 (Print);
 2072-0459 (Online)**

11 issues per year

Languages: Russian, English

Indexed in Ulrich's Periodicals
 Directory, Russian Science
 Citation Index, Journals Library
 Cyberleninka, Scopus.

Printed in Publishing House
 “Nauka”: 1a, Dinamovskaya str.,
 Moscow, 109044

Copies printed – 600.

© Vysshee obrazovanie v Rossii
 (Higher Education in Russia)



VYSSHEE OBRAZOVANIE V ROSSII

www.vovr.elpub.ru; www.vovr.ru
(Higher Education in Russia)

Vysshee obrazovanie v Rossii is a monthly scholarly refereed journal that provides a forum for disseminating information about advances in higher education among educational researchers, educators, administrators and policy-makers across Russia. The journal welcomes authors to submit articles and research/discussion papers on topics relevant to modernization of education and trends, challenges and opportunities in teaching and learning.

Vysshee obrazovanie v Rossii publishes articles, book reviews and conference reports on issues such as institutional development and management, innovative practices in university curricula, assessment and evaluation, as well as theory and philosophy of higher education.

Vysshee obrazovanie v Rossii aims to stimulate interdisciplinary, problem-oriented and critical approach to research, to facilitate the discussion on specific topics of interest to educational researchers including international audiences. The primary objective of the journal is supporting of the research space in the field of educational sciences taking into account two dimensions – geographical and epistemological, consolidation of the broad educational community. This can be provided by creating the unified language of understanding and description of the processes that take place in the contemporary higher education. This language should facilitate rallying of the whole community of educators and researchers on the basis of such values as solidarity, concord, cooperation, and co-creation.

Our audience includes academics, faculty and administrators, teachers, researchers, practitioners, organizational developers, and policy designers.

The journal's rubrics correspond to three research areas: philosophical sciences, sociological sciences, educational sciences. We design our activities relying on the professional associations in higher education sphere, such as the Russian Union of Rectors, Association of Technical Universities, Association of Classical Universities of Russia, International Society for Engineering Education (IGIP).

Indexation. The papers in *Vysshee obrazovanie v Rossii* are indexed by Russian Science Citation Index and Scopus.



ВЫСШЕЕ ОБРАЗОВАНИЕ В РОССИИ

www.vovr.elpub.ru; www.vovr.ru

НАУЧНО-ПЕДАГОГИЧЕСКИЙ ЖУРНАЛ

Журнал входит в перечень изданий, рекомендованных ВАК при Министерстве науки и высшего образования РФ для публикации результатов научных исследований.

Редакционная коллегия

БЕДНЫЙ Б.И. (проф., ННГУ им. Н.И. Лобачевского); **БЕЛОЦЕРКОВСКИЙ А.В.** (проф., Тверской государственный университет); **ВЕРБИЦКИЙ А.А.** (проф., академик РАО, МПГУ); **ГРЕБНЕВ Л.С.** (проф., НИУ «Высшая школа экономики»); **ГРИБОВ Л.А.** (проф., чл.-корр. РАН); **ЕНДОВИЦКИЙ Д.А.** (проф., ректор, вице-президент РСП, Воронежский государственный университет); **ЖУРАКОВСКИЙ В.М.** (проф., акад. РАО); **ЗБОРОВСКИЙ Г.Е.** (проф., Уральский федеральный университет им. Б.Н. Ельцина); **ИВАНОВ В.Г.** (проф., КНИТУ); **ИВАХНЕНКО Е.Н.** (проф., МГУ им. М.В. Ломоносова); **КИРАБАЕВ Н.С.** (проф., РУДН); **КУЗНЕЦОВА Н.И.** (проф., РГГУ); **ЛУКАШЕНКО М.А.** (проф., МФПУ «Синергия»); **МЕЛИК-ГАЙКАЗЯН И.В.** (проф., ТГПУ); **ПЕТРОВ В.Л.** (проф., НИТУ «МИСиС»); **РАИЦКАЯ Л.К.** (проф., МГИМО); **САЗОНОВ Б.А.** (главный научный сотрудник, ФИРО); **САЗОНОВА З.С.** (проф., МАДИ); **САПУНОВ М.Б.** (журнал «Высшее образование в России»); **СЕНАШЕНКО В.С.** (проф., РУДН); **СИЛЛАСТЕ Г.Г.** (проф., Финансовый университет при Правительстве РФ); **СТРИХАНОВ М.Н.** (проф., ректор, НИЯУ МИФИ); **ТЕРЕНТЬЕВ Е.А.** (ст. науч. сотрудник, НИУ «Высшая школа экономики»); **ФЕДОРОВ И.Б.** (акад. РАН, Президент МГТУ им. Н.Э. Баумана); **ЧУПРУНОВ Е.В.** (проф., научный руководитель ННГУ им. Н.И. Лобачевского); **ЧУЧАЛИН А.И.** (проф., КубГТУ); **ШЕЙНБАУМ В.С.** (проф., Губкинский университет)

Международный редакционный совет

АЛЕКСАНДРОВ А.А. (проф., ректор, МГТУ им. Н.Э. Баумана, президент Ассоциации технических университетов); **АУЭР Михаэль** (Генеральный секретарь IGIP, проф., Университет прикладных наук Каринтии); **БАДАРЧ Дендэв** (проф., директор департамента ЮНЕСКО, Париж); **де ГРААФ Эрик** (главный редактор European Journal of Engineering Education, проф., Алборгский университет); **ГРУДЗИНСКИЙ А.О.** (проф., член рабочей группы по Болонскому процессу при Минобрнауки России); **ЖЕНЬ НАНЬЦИ** (акад., Харбинский политехнический университет, исполнительный директор АТУРК); **ЗЕРНОВ В.А.** (проф., ректор, Национальный технический университет Украины); **ЗЕРНОВ В.А.** (проф., ректор, Национальный технический университет Украины); **НЕЧАЕВ В.Д.** (проф., ректор, Севастопольский государственный университет); **ОЧИРБАТ Баатар** (ректор, Монгольский государственный университет науки и технологий); **ПРИХОДЬКО В.М.** (проф., чл.-корр. РАН, президент Российского мониторингового комитета IGIP); **САДОВНИЧИЙ В.А.** (проф., акад. РАН, ректор, МГУ им. М.В. Ломоносова, президент РСП); **САНГЕР Филипп** (проф., Университет Пердью, США); **ЮШКО С.В.** (проф., ректор, КНИТУ)



VYSSHEE OBRAZOVANIE V ROSSII

www.vovr.eplib.ru; www.vovr.ru
(Higher Education in Russia)

EDITORIAL BOARD

Boris I. BEDNYI – Dr. Sci. (Physics), Prof., Director of the Institute of Doctoral Studies, N.I. Lobachevsky State University of Nizhni Novgorod, bib@unn.ac.ru

Andrey V. BELOTSERKOVSKY – Dr. Sci. (Physics), Prof., Tver State University, A.belotserkovsky@tversu.ru

Alexander I. CHUCHALIN – Dr. Sci. (Engineering), Prof., Head of the Department of Engineering Pedagogy, Kuban State Technological University, chai@tpu.ru

Evgeniy V. CHUPRUNOV – Dr. Sci. (Physics), Prof., Scientific Leader of N.I. Lobachevsky State University of Nizhni Novgorod, rector@unn.ru

Dmitry A. ENDOVITSKY – Dr. Sci. (Economics), Prof., Rector, Voronezh State University, Vice-president of the Russian Rectors' Union, eda@econ.vsu.ru

Igor B. FEDOROV – Dr. Sci. (Engineering), Prof., Academician of RAS, Bauman MSTU, bauman@bmstu.ru

Leonid S. GREBNEV – Dr. Sci. (Economics), Prof., National Research University Higher School of Economics, lsg-99@mail.ru

Lev A. GRIBOV – Dr. Sci. (Physics), Prof., Corr. Member of RAS, gribov@geokhi.ru

Evgeniy N. IVAKHNENKO – Dr. Sci. (Philosophy), Prof., Lomonosov Moscow State University, ivahnen@rambler.ru

Vasiliy G. IVANOV – Dr. Sci. (Education), Prof., Kazan National Research Technological University, mrcpkrt@mail.ru

Nur S. KIRABAEV – Dr. Sci. (Philosophy), Prof., Peoples' Friendship University of Russia, n.kirabaev@rudn.ru

Natalia I. KUZNETSOVA – Dr. Sci. (Philosophy), Prof., Russian State University for the Humanities, cap-cap@inbox.ru

Marianna A. LUKASHENKO – Dr. Sci. (Economics), Prof., Moscow University for Industry and Finance "Synergy", mlukashenko@mfp.ru

Irina V. MELIK-GAYKAZYAN – Dr. Sci. (Philosophy), Prof., Tomsk State Pedagogical University, melik-irina@yandex.ru

Vadim L. PETROV – Dr. Sci. (Engineering), Prof., The National University of Science and Technology MISiS, petrovv@misis.ru

Lilia K. RAITSKAYA – Dr. Sci. (Education), Cand. Sci. (Economics), Prof., MGIMO University (Moscow) – Moscow State Institute of International Relations (University), e-mail: raitskaya.l.k@inno.mgimo.ru

Mikhail B. SAPUNOV – Cand. Sci. (Philosophy), Editor-in-chief of the journal "Vysshee Obrazovanie v Rossii", mbsapunov@mail.ru

Boris A. SAZONOV – Cand. Sci. (Engineering), Chief Researcher of the Federal Institute of the Development of Education, bsazonov@list.ru

Zoya S. SAZONOVA – Dr. Sci. (Education), Prof., State Technical University – MADI, zsazanova@yahoo.com

Vasiliy S. SENASHENKO – Dr. Sci. (Physics), Prof. of the Department of Comparative Educational Policy, People's Friendship University of Russia, vsenashenko@mail.ru

Viktor S. SHEINBAUM – Cand. Sci. (Engineering), Prof., Gubkin Russian State University of Oil and Gas, shvs@gubkin.ru

Galina G. SILLASTE – Dr. Sci. (Sociology), Prof., Financial University under the Government of the Russian Federation, galinasillaste@yandex.ru

Mikhail N. STRIKHANOV – Dr. Sci. (Physics), Prof., Corr. Member of Russian Academy of Education, Rector, National Research Nuclear University MEPhI, rector@mephi.ru

Evgeniy A. TERENTEV – Cand. Sci. (Sociology), Chief Researcher, National Research University Higher School of Economics, eterentev@hse.ru

Andrey A. VERBITSKY – Dr. Sci. (Education), Prof., Academician of the Russian Academy of Education, Moscow State Pedagogical University, asson1@rambler.ru

Garold E. ZBOROVSKY – Dr. Sci. (Philosophy), Prof., Ural Federal University named after the first President of Russia B.N. Yeltsin, g.e.zborovsky@urfu.ru; garoldzborovsky@gmail.com

Vasiliy M. ZHURAKOVSKY – Dr. Sci. (Engineering), Prof., Academician of the Russian Academy of Education, Head of the Expert and analytical center of National Training Foundation, zhurakovskiy@ntf.ru

INTERNATIONAL COUNCIL MEMBERS

Anatoly A. ALEXANDROV – Dr. Sci. (Engineering), Prof., Rector of Bauman Moscow State Technical University, President of Technical Universities Association, bauman@bmstu.ru

Michael E. AUER – PhD, Prof., General Secretary of IGIP, Carinthia University of Applied Sciences (Austria), gs@igip.org

Dendev BADARCH – PhD, Director of the Division of Social Transformations and Intercultural Dialogue, UNESCO, France, d.badarch@unesco.org

Erik de GRAAF – Prof., Delft University of Technology (Netherlands), Editor-in-chief of the “European Journal of Engineering Education”, degraaff@plan.aau.dk

Alexander O. GRUDZINSKY – Dr. Sci. (Sociology), Prof., Lobachevsky State University of Nizhni Novgorod, member of the working group on Bologna Process at the Ministry of Education and Science of RF, aog@unn.ru

Vladimir D. NECHAEV – Dr. Sci. (Politics), Prof., Rector of Sevastopol State University, VDNechaev@sevsu.ru

Baatar OCHIRBAT – PhD, Prof., Rector of Mongolian University of Science and Technology, baatar@must.edu.mn

Vyacheslav M. PRIKHOD'KO – Dr. Sci. (Engineering), Prof., Corr. Member of RAS, State Technical University – MADI, President of RMC IGIP, rector@madi.ru

Nanqi REN – Vice President of Harbin Institute of Technology, Association of Sino-Russian Technical Universities (ASRTU), Permanent Secretariat of Chinese part, asrtu@hit.edu.cn

Viktor A. SADOVNICHY – Dr. Sci. (Physics), RAS Academician, Rector of Lomonosov Moscow State University, President of the Russian Rectors' Union, info@rector.msu.ru

Phillip A. SANGER – PhD, Full Professor, Executive Director of Center for Accelerating Technology and Innovation, College of Technology, Purdue University, psanger@purdue.edu

Sergey V. YUSHKO – Dr. Sci. (Engineering), Prof., Rector of Kazan National Research Technological University, office@kstu.ru

Vladimir A. ZERNOV – Dr. Sci. (Physics), Prof., Rector of Russian New University, Chairman of the Council of the Association of Non-Governmental Universities, rector@rosnou.ru

Mykhailo Z. ZGUROVSKY – Dr. Sci. (Engineering), Prof., Rector of National Technical University of Ukraine “Kyiv Polytechnic Institute”, Academician of NAN of Ukraine, zgurovsm@hotmail.com

AUTHOR'S GUIDE

Publishing Ethics

The journal *Vysshee obrazovanie v Rossii* is committed to promoting the standards of publication ethics in accordance with COPE (Code of Conduct and Best Practice Guidelines for Journal Editors) and takes all possible measures against any publication malpractices. We pursue the principles of transparency and best practices in scholarly publishing and aspire to ensure fair, unbiased, and transparent peer review processes and editorial decisions.

Peer-review procedure

All the manuscripts submitted to *Vysshee obrazovanie v Rossii* are reviewed by the Editor to assess its suitability for the journal according to the guidelines determined by the editorial policy. On this step of the initial filtering the manuscript can be rejected if the content doesn't fall within the scope of the journal or it fails to meet sufficiently our basic criteria and the submission requirements.

The papers accepted for publication are subjected to the blind peer review process which can be accomplished either by the members of Editorial staff (Heads of Departments) or by involved additional reviewers. The assigned reviewer is an expert within a topic area of the research conducted.

Manuscript Submission

Manuscript is expected to report the original research. The paper content should be relevant to the scope of the journal. Authors must certify that the manuscript is not currently being considered for publication elsewhere and has not been published before.

Manuscripts are submitted at email address: vovrus@inbox.ru. They must be prepared according to the manuscript requirements. Author's document set should include the following positions.

- *Authors' data*: first name, middle initial and last name; affiliation (full name of the organization and position); academic degree; postal address of the organization; e-mail address; mobile telephone number.
- *Manuscript file* in Word format (font – 11-point Times New Roman).
- *Title* (no more than 5-7 words).
- *Abstract* (250-300 words summarizing concisely the content and conclusions of the paper).
- *Keywords* (5-7).
- *Reference list* (approx. 15-20). Each reference should be numbered, ordered sequentially as it appears in a text; all authors should be included in reference list; references to websites should give authors if known, title of cited page, URL in full, and year of posting in parentheses. Please, adhere the journal style of referencing.