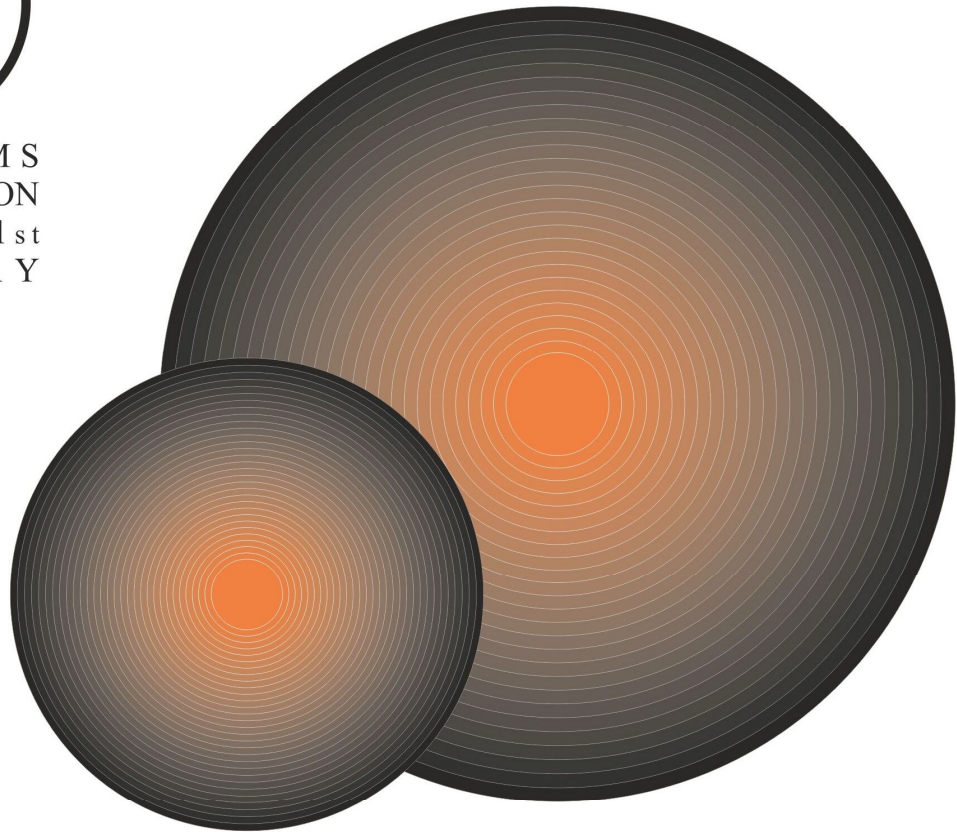


Vol. 81, No. 2, 2023



PROBLEMS  
OF EDUCATION  
IN THE 21<sup>st</sup>  
CENTURY



# PROBLEMS OF EDUCATION IN THE 21<sup>st</sup> CENTURY

ISSN 1822-7864



9 771822 786007

# PROBLEMS OF EDUCATION IN THE 21st CENTURY

Scientia Socialis, Ltd., a member of the *Lithuanian Publishers Association and a member of Publishers International Linking Association, Inc. (Crossref)* in cooperation with SMC „Scientia Educologica“, Lithuania, *The Associated Member of Lithuanian Scientific Society, European Society for the History of Science (ESHS) and ICASE (International Council of Associations for Science Education)*

The articles appearing in this journal are indexed, listed, and abstracted in:

Emerging Sources Citation Index (ESCI) (Web of Science   Clarivate Analytics)	Information Matrix for the Analysis of Journals (MIAR)
ERIC	Directory of Open Access Scholarly Resources (ROAD)
Index Copernicus	Eurasian Scientific Journal Index
EBSCO: Education Research Complete	Crossref
Education Research Index Database Coverage List “Core” coverage	ProQuest (ProQuest Central; ProQuest Education Journals)
Central & Eastern European Academic Source Database Coverage List (EBSCO-CEEAS)	Europub: Academic and Scholarly Research Publication Center
JournalSeek	The Scientific Literature Database (Scilit)
Ulrich’s Periodicals Directory	QOAM
Contemporary Science Association/AAP databases	DOI
Open Academic Journals Index (OAJI)	ResearchGate
Zeitschriften Datenbank (ZDB)	Dimensions
GIGA Information Centre (Electronic Journals Library)	SOBIAD
CNKI (China National Knowledge Infrastructure) Scholar	CEEOL (Central and Eastern European Online Library)
Turkish Education Index	

## Publisher

Scientia Socialis, Ltd. in cooperation with SMC „Scientia Educologica“, Lithuania, the Associated Member of Lithuanian Scientific Society, the Association of Lithuanian Serials, European Society for the History of Science (ESHS) and International Council of Associations for Science Education (ICASE)

## Editors-in-Chief

Dr., Prof. **Aginaldo Arroio**, University of Sao Paulo, Brazil

Dr., Prof. **Vincentas Lamanauskas**, Vilnius University & SMC „Scientia Educologica“, Republic of Lithuania

## Editorial Board

Dr., Prof. **Boris Aberšek**, University of Maribor, Slovenia

Dr., Prof. **Saleh A. Alabdulkareem**, King Saud University, Saudi Arabia

Dr. **Monica Baptista**, University of Lisbon, Portugal

Dr., Prof. **Martin Bilek**, Charles University, Czech Republic

Dr., Prof. **Andris Broks**, University of Latvia, Latvia

Dr., Prof. **Marco Antonio Bueno Filho**, Federal University of ABC, Brazil

Dr. **Paolo Bussotti**, University of Udine, Italy

Dr., Prof. **Muammer Calik**, Trabzon University, Turkey

Dr. **Saša A. Horvat**, University of Novi Sad, Republic of Serbia

Dr., Prof. **Margaret Chan Kit Yok**, MARA University of Technology (UiTM), Malaysia

Dr., **Angela James**, University of Kwazulu – Natal, South Africa

Dr., Prof. **Vladimir S. Karapetyan**, Armenian State Pedagogical University named after Kh. Abovyan, Armenia

Dr., Prof. **Kuo-Hung Huang**, National Chiayi University, Taiwan

Dr. **Milan Kubiátko**, Jan Evangelista Purkyně University in Ústí nad Labem, Czech Republic

Dr., Prof. **Mirosław Kowalski**, University of Zielona Góra, Poland

Dr., Prof. **Lay Yoon Fah**, University Malaysia Sabah, Malaysia

Dr. **Todar T. Lakhvich**, Belarusian State Medical University, Republic of Belarus

Dr. **Solange W. Locatelli**, Federal University of ABC, Brazil

Dr., Prof. **Danuše Nezvalová**, Palacký University, Czech Republic

Dr. **Osman Pekel**, Suleyman Demirel University, Turkey

Dr., Prof. **Yuriy Pelekh**, Rivne State University of Humanities, Ukraine

Dr., Prof. **Raffaele Pisano**, University of Lille, France

Dr., Prof. **Katarzyna Potyrala**, Pedagogical University of Cracow, Poland

Dr. **Costin Pribeanu**, Academy of Romanian Scientists, Romania

Dr. **Agneta Simeonsdotter Svensson**, University of Gothenburg, Sweden

Dr. **Uladzimir K. Slabin**, University of Oregon, USA

Dr. **Laima Railienė**, Scientific Methodical Centre „Scientia Educologica“, Republic of Lithuania

Dr., Prof. **Borislav V. Toshev**, Sofia University, Bulgaria

Dr., Prof. **Milan Turčani**, Constantine the Philosopher University, Slovakia

Dr., Prof. **Nicos Valanides**, Educational Robotics and Science Organization, Cyprus

*Copyright of this issue is the property of Scientia Socialis, Ltd, Lithuania. By virtue of their appearance in this open access journal, articles are free to use, with proper attribution, in educational and other non-commercial settings*

Index Copernicus (IC<sup>TM</sup> Value): 100.00 (2021); ICDS (Secondary Composite Index Broadcasting): 9.5 (2018).  
CGIJ OAJI: 0.600 (2022). H Index: 9 (2022), Journal Citation Indicator (JCI) / Clarivate: 0.38 (2021)

*Problems of Education in the 21st Century* is an international, periodical, peer reviewed scientific journal, issued by the Scientia Socialis Ltd. in cooperation with SMC „Scientia Educologica“.

**Address:** Scientia Socialis, Ltd.

Donelaičio Street 29, LT-78115 Siauliai, Lithuania

E-mail: [scientia@scientiasocialis.lt](mailto:scientia@scientiasocialis.lt)

Phone: +370 687 95668

WEB page: <http://www.scientiasocialis.lt/pec>