

Vol. 20, No.4, 2021

ISSN 1648-3898 /Print/, ISSN 2538-7138 /Online/



JOURNAL
OF • BALTIC
SCIENCE
EDUCATION

Journal of Baltic Science Education

ISSN 1648-3898



9 771648 389000

THE INTERNATIONAL JOURNAL OF THE SCIENTIA SOCIALIS Ltd. & SMC "SCIENTIA EDUCOLOGICA"

Vol.20, No.4, 2021

ISSN 1648-3898 /Print/

ISSN 2538-7138 /Online/

Journal of Baltic Science Education



JOURNAL
OF • BALTIC
SCIENCE
EDUCATION

The International Journal of the Scientia Socialis Ltd., & SMC "Scientia Educologica"

Editorial Board

Editor-in-Chief

Prof., Dr. Vincentas Lamanauskas

Vilnius University, Lithuania

Deputy Editor-in-Chief

Prof., Dr. Andris Broks

University of Latvia, Latvia

Deputy Editor-in-Chief

Prof., Dr. Miia Rannikmäe

University of Tartu, Estonia

Executive Secretary

Dr. Laima Railienė

SMC "Scientia Educologica", Lithuania

Editors:

Prof., Dr. Boris Aberšek

University of Maribor, Slovenia

Prof., Dr. Agnaldo Arroio

University of Sao Paulo, Brazil

Prof., Dr. Martin Bilek

Charles University, Czech Republic

Dr. Paolo Bussotti

University of Udine, Italy

Prof., Dr. Bulent Cavas

Dokuz Eylul University, Turkey

Prof., Dr. Salih Cepni

Uludag University, Turkey

Dr. Peter Demkanin

Comenius University, Slovakia

Dr. André du Plessis

Nelson Mandela University, South Africa

Dr. Markus Sebastian Feser

University of Hamburg, Germany

Prof., Dr. Jack Holbrook

University of Tartu, Estonia

Prof., Dr. Ryszard M. Janiuk

Maria Curie Skłodowska University, Poland

Dr. Milan Kubiato

Jan Evangelista Purkyně University in Ústí nad Labem, Czech Republic

Dr. Todor Lakhvich

Belarusian State Medical University, Republic of Belarus

Prof., Dr. Jari Lavonen

University of Helsinki, Finland

Dr. Rita Makarskaitė-Petkevičienė

Vilnius University, Lithuania

Prof., Dr. Paul Pace

Malta University, Malta

Prof., Dr. Valfrids Paškevičs

Daugavpils University, Latvia

Prof., Dr. Jongwon Park

Chonnam National University, Korea

Prof., Dr. Raffaele Pisano

University of Lille, France

Prof., Dr. Pavol Prokop

Comenius University in Bratislava, Slovakia

Prof., Dr. Konstantinos Ravanis

University of Patras, Greece

Dr. Alona Rauckienė-Michaelsson

Klaipėda University, Lithuania

Dr. Dušica Rodić

University of Novi Sad, Serbia

Prof., Dr. Heimo Saarikko

Helsinki University, Finland

Prof., Dr. Hae-Ae Seo

Pusan National University, Korea

Dr. Uladzimir K. Slabin

University of Oregon, USA

Prof., Dr. Andrej Šorgo

University of Maribor, Slovenia

Prof., Dr. Borislav V. Toshev

Sofia University, Bulgaria

Prof., Dr. Georgios Tsaparlis

University of Ioannina, Greece

Dr. Muhammet Usak

Kazan Federal University, Republic of Tatarstan, Russian Federation

A scientific journal JBSE issued by the *Scientia Socialis Ltd.*, in cooperation with SMC *Scientia Educologica*, Lithuania, emphasizes theoretical, experimental and methodical studies in the field of science education. JBSE is an international academic journal. In order to maintain the high standards appropriate to such a journal, all contributions received are submitted for anonymous review by two experts, additionally to review by the Editor. The decision of the Editor on the acceptance of articles is final and no correspondence can be entered into on reasons for rejection of a submitted contribution.

Published since 2002

The journal is published bimonthly.

IF: 1.024 (2018)

H Index: 17 (2020)

SJR: 0.42 (2020)

ICDS: 8.8 (2020)

ICV: 159.24 (2019)

Address:

Scientia Socialis, Ltd.

Donelaičio Street 29, LT-78115 Siauliai, Lithuania

E-mail: jbse@scientiasocialis.lt

Phone: +370 687 95668

Home page: <http://www.scientiasocialis.lt/jbse/>

Skype: scientia12

ISSN 1648-3898 (Print)

ISSN 2538-7138 (Online)

© Scientia Socialis Ltd., a member of the Lithuanian Publishers Association, Lithuania, 2021