

ISSN: 2301-251X

EUROPEAN JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION



April 2021
Volume 9
Issue 2

This page is intentionally left blank



EUROPEAN JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION

Volume 9

Issue 2

April 2021

European Journal of Science and Mathematics Education

ISSN: 2301-251X (Online)

Web: <https://www.scimath.net/>

Publisher: Bastas

Copyright and Licensing: Authors retain the copyright of their articles and have full control over their own published scholarly work. Authors are not asked to transfer copyrights to Bastas. This allows the scientific community to have free and immediate access to the content as soon as the work is published online.

Authors grant Bastas the right of first publication and dissemination of the articles. As the original publisher, Bastas publishes articles under a permissive [Creative Commons Attribution License \(CC BY 4.0\)](#), which allows third parties to distribute, remix or build upon the work, even commercially, as long as they credit the authors for original article.

EUROPEAN JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION

The **European Journal of Science and Mathematics Education** aims to stimulate discussions on contemporary topics in science and mathematics education and to foster the application of the results in primary, secondary, and higher education in the countries of Europe and other countries. The journal is open-access, peer-reviewed and published quarterly.

AIMS AND SCOPE

The **European Journal of Science and Mathematics Education** is founded to stimulate discussions on contemporary topics in Science and Mathematics Education and to foster the application of the results in primary, secondary, and higher education. The Journal is a platform for exchange of original ideas with particular emphasis on application. We welcome empirical and theoretical research papers, as well as papers on innovation of teaching techniques and technologies, and position papers.

ABSTRACTING AND INDEXING

European Journal of Science and Mathematics Education (EJSME) is listed by the following indexes, databases, directories, or libraries.

ERIC

ERIH

EBSCO

Google Scholar

SCOPUS

Sherpa Romeo

EDITORIAL BOARD

Editors

Kamisah Osman, The National University of Malaysia, Malaysia

SCOPUS ID: 26656915400

Milan Kubiato; J. E. Purkyne University, Faculty of Education

Department of Preschool and Primary Education

Pasteurova 1, 400 96 Usti nad Labem, Czech Republic

SCOPUS ID: 18037477400

Editorial Board

Dominique Persano Adorno, University of Palermo, Italy

Maija Aksela, University of Helsinki, Finland

Patricia Bagget, New Mexico State University, USA

George Bodner, Purdue University, USA

Ubiratan D'Ambrosio, UNICAMP, São Paulo, Brazil

Bruno D'Amore, University of Bologna, Italy

Jean-Luc Dorier, University of Geneva, Switzerland

Jean-Philippe Drouhard, University of Nice, France

Sibel Erduran, University of Oxford, UK

Lianghuo Fan, University of Southampton, UK

Gabriele Kaiser, University of Hamburg, Germany

Berinderjeet Kaur, National Institute of Education, Singapore

Jari Lavonen, University of Helsinki, Finland

Norman Lederman, Illinois Institute of Technology, USA

Cedric Linder, Uppsala University, Sweden

Yu-Ling Lu, National Taipei University of Education, Taiwan

Nicolina A. Malara, Università degli Studi di Modena e Reggio Emilia, Italy

Cheryl Mason, San Diego State University, USA

João Filipe de Matos, University of Lisbon, Portugal

Immaculate Kizito Namukasa, University of Western Ontario, Canada

Edward Redish, University of Maryland, USA

Rohaida Mohd. Saat, University of Malaya, Malaysia

Ali Simsek, Anadolu University, Turkey

Josip Slisko, Autonomous University of Puebla, Mexico

Verena Spatz, Technische Universität Darmstadt, Germany

Heinz Steinbring, University of Duisburg-Essen, Germany

Behiye Ubuz, Middle East Technical University, Turkey

Muhammet Usak, Kazan Federal University, Russia

Anne Watson, University of Oxford, UK

Dean Zollman, Kansas State University, USA

Executive Editor

Muhammet Usak, Kazan Federal University, Kazan, Russian Federation

SCOPUS ID: 23010777700

Past Editors and Editorial Board Members

Ayhan Bilsel, Founding Editor-in Chief (2013-2020)

Fahme Dabaj, Co-Editor (2013-2020)

Mehmet Garip, Co-Editor (2013-2020)

David Hestenes (2013-2020)

Lillian McDermott (2013-2020)

Keith Taber (2013-2020)

Carl Winslow (2013-2020)

Kewen Zhao (2013-2020)

CONTENTS

Volume 9 – Issue 2 – April 2021

Research Article

Factors Explaining Business Student Attitudes Towards Mathematics: Does Gender Still Matter? 13-25

Leiv Opstad

<https://doi.org/10.30935/scimath/10771>

Research Article

“Is It Valid or Not?”: Pre-Service Teachers Judge the Validity of Mathematical Statements and Student Arguments 26-42

Zulfiye Zeybek Simsek

<https://doi.org/10.30935/scimath/10772>

Research Article

Mathematics Teachers’ Inclusion of Modelling and Problem Posing in Their Mathematics Lessons: An Exploratory Questionnaire 43-56

Simone Passarella

<https://doi.org/10.30935/scimath/10773>