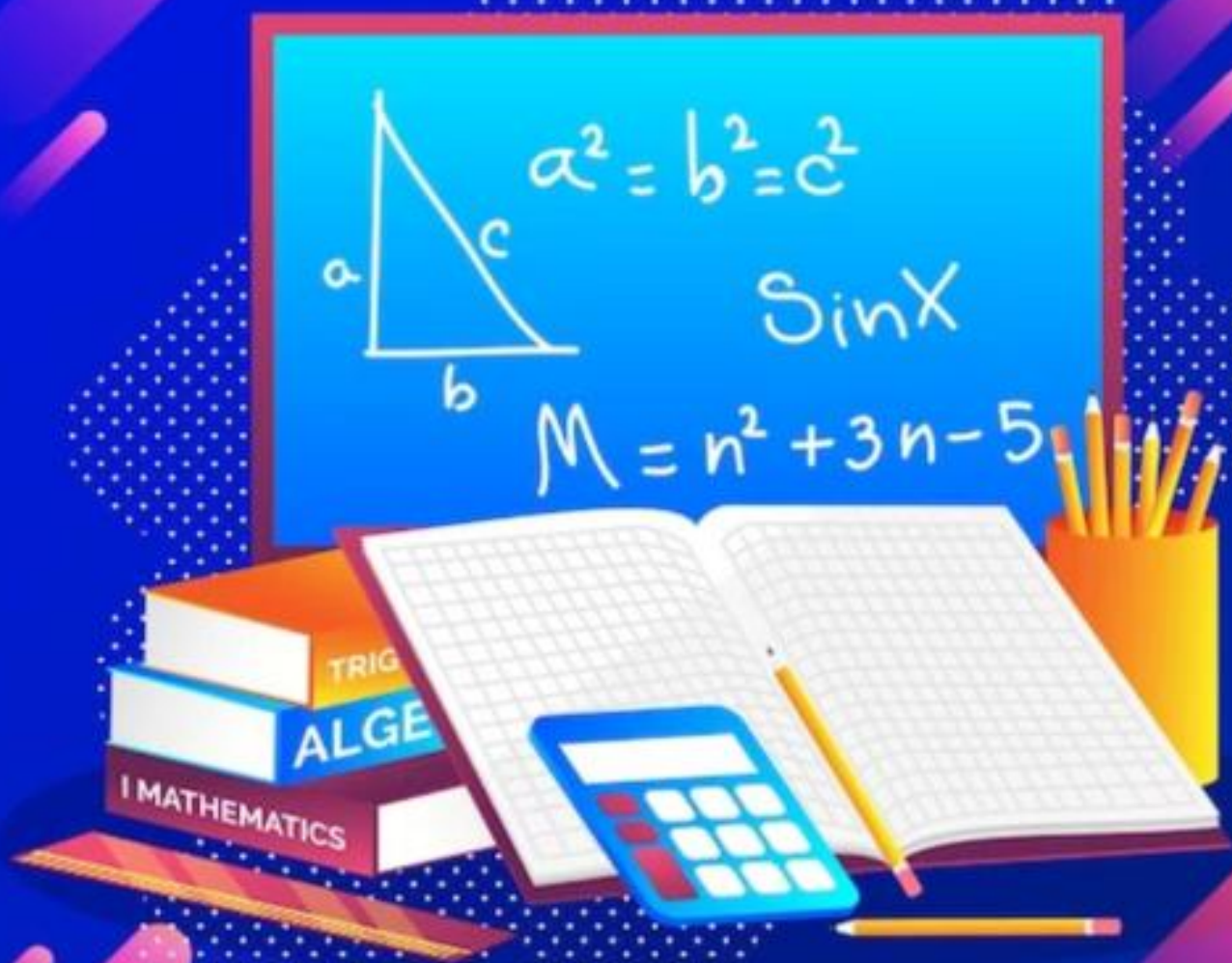


International Journal of
**Science and
Mathematics Education**



Vol. 1 No. 4 December 2024

INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION
VOLUME. 1 NOMOR. 4 DECEMBER 2024

FOCUS AND SCOPE OF THE JOURNAL

International Journal of Science and Mathematics Education with e-ISSN : 3062-7206, p-ISSN : 3062-7214. This journal is published by the Asosiasi Riset Ilmu Matematika dan Sains Indonesia. This Journal accepts manuscripts based on empirical research, both quantitative and qualitative. This journal is a peer-reviewed and open access journal of Mathematics and Science Education. The fields of study in this journal include the sub-family of Mathematics and Science Education. This journal is published 1 year 4 times (**March, June, September, December**).

International Journal of Science and Mathematics Education Articles published in the International Journal of Mathematics and Science Education include the results of original scientific research (priority), new scientific review articles (not priorities), or comments or criticisms of articles in the International Journal of Science and Mathematics Education. The International Journal of Science and Mathematics Education ACCEPTS manuscripts or articles from various academics and researchers both internationally and nationally.

Articles published in journals are articles that have gone through a review process by Mitra Bebestari (*peer-review*). International Journal of Science and Mathematics Education only accepts articles derived from original research results (priority priority), and new scientific review articles (non-priority). The decision to accept or not to accept scientific articles in this journal is the right of the Editorial Board based on the recommendations of the Reviewer Partners.

JOURNAL INDEXING INFORMATION

International Journal of Science and Mathematics Education with e-ISSN : 3062-7206, p-ISSN : 3062-7214 <https://international.arimsi.or.id/index.php/IJSME> is a *peer-reviewed journal* that has been indexed in several leading indexers, including: *Google Scholar; Digital Reference Keeper (GARUDA); Copernicus; Dimensions; Connecting Research and Researchers (ORCID); Cross-reference DOI.*



GARUDA
GARBA RUJUKAN DIGITAL

**I^{WORLD}
of
JOURNALS**



Dimensions

ORCID
Connecting research and researchers



Crossref doi

INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION
VOLUME. 1 NOMOR. 4 DECEMBER 2024

EDITORIAL TEAM

Editor in Chief/Chairman of the Board of Editors

Renatalia Fika, M.Pd, M.Si ; Sekolah Tinggi Sains Dwi Farma Bukittinggi, Indonesia

Editorial Board/ Members of the Editorial Board

Istamkhuja Davronov, PHD; Bukhara State University, Uzbekistan

Dr. Saroj Kumar Sahoo ; NIT Agartala, India

Nelufer Nazru ; University of Bergen, Norway

Dr. Araz Meilin, SP., M.Si. ; Badan Riset dan Inovasi Nasional, Indonesia

Dr. Dra. Esther Sorta Mauli Nababan, M.Sc. ; Universitas Sumatera Utara, Indonesia

Dr. Hendra Cipta, M.Si ; Universitas Islam Negeri Sumatera Utara, Indonesia

Chaleb Paul Maanari, S.Si., M.Si ; Universitas Negeri Manado, Indonesia

Dr. Endrayana Putut L.E.,S.Si.,M.Si. ; Universitas Wijaya Kusuma Surabaya, Indonesia

Reviewer/Peer-Reviewers

Dr. Hazhar Blbas; Statistics Department, College of Administration and Economics,
Salahaddin University-Erbil, Iraq

Prof. Soumen Das, Assistant Professor ; Institute of Management Study, India

Dra. Estela Salomé Solís Gutiérrez ; Universidad Autónoma de Baja California, México

Dr. Wardatul Husna Irham, S.Si., M.Pd. ; Institut Teknologi Sawit Indonesia, Sumatera
Utara, Indonesia

Dr. Hardika Saputra, M.Pd. ; Institut Agama Islam Agus Salim Metro, Indonesia

Dr. Imam Kusmaryono, S.Pd., M.Pd. ; Universitas Islam Sultan Agung, Indonesia

Dr. Ir. Nurjanah, M.Si ; Universitas Pancasakti Tegal, Indonesia

Muhamad Aris Sunandar, S.Si., M.Pd. ; Sekolah Tinggi Pertanahan Nasional, Indonesia

Publisher

Asosiasi Riset Ilmu Matematika dan Sains Indonesia

berdasarkan S.K.Menteri Hukum dan Hak Asasi Manusia Republik

NOMOR AHU-0001313.AH.01.07.TAHUN 2024

Alamat : Puri Tegalrejo Blok E.7, RT. 005, RW. 003, Kel. Tegalrejo, Kec. Tengaran, Kab.
Semarang, Jawa Tengah, 50225

Website : <https://arimsi.or.id>; email : info@arimsi.or.id

INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION
VOLUME. 1 NOMOR. 4 DECEMBER 2024

FOREWORD

International Journal of Science and Mathematics Education with e-ISSN : 3062-7206, p-ISSN : 3062-7214. This journal is published by the Asosiasi Riset Ilmu Matematika dan Sains Indonesia. This Journal accepts manuscripts based on empirical research, both quantitative and qualitative. This journal is a peer-reviewed and open access journal of Mathematics and Science Education. The fields of study in this journal include the sub-family of Mathematics and Science Education. This journal is published 1 year 4 times (**March, June, September, December**).

Reviewers provide an assessment of originality, clarity of presentation, contribution to the field/science. The journal publishes *research articles*, literature review/review articles, case reports and *concept/policy articles*, in all fields of Community Partnership Journal accepting articles in English and other language. The articles to be published are original works and have never been published. Entry articles will be reviewed by both internal and external review teams. The International Journal of Science and Mathematics Education accepts articles in English and other language.

The Editorial Board will strive to continue to improve the quality of journals so that it can become one of the most important references in the development of science. A big thank you to the Reviewer along with the members of the Editorial Board and all parties involved in the publication of this journal.

Greetings

Editor-in-Chief

INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION
VOLUME. 1 NOMOR. 4 DECEMBER 2024

TABLE OF CONTENTS

Journal Focus and Scope	I
Editorial Team	II
Foreword	III
Table of Contents	IV
A Review Of Solving and Applications Singularly Perturbed Problems Ahmed R Khlefha	Hal 01-07
Lasso Tobit Principal Component Regression With An Application Hameedah Naeem Melik	Hal 08-18
Optimizing Heart Disease Prediction : A Comparative Study of Machine Learning Models Using Clinical Data Budiman Budiman, Nur Alamsyah, Elia Setiana, Valencia Claudia Jennifer Kaunang, Syahira Putri Himmaniah	Hal 19-38
Effect of pH on COD Reduction in Biogas Formation Nadiareta Sitorus, Desniorita Desniorita	Hal 39-44
The Influence Of Chemical Oxygen Demand (COD) And pH Of Pome As Biogas Raw Material On The CH₄ Produced Popi Febrianti, Dwi Kemala Putri	Hal 45-55