Abstracting / Indexing

ESCI - Emerging Sources Citation Index
ERIC - Education Resources Information Center
Scopus

EBSCO:
The Belt and Road Initiative Reference Source
Education Research Complete
Education Source
Index Copernicus™
Cabell's Directory
DOAJ - Directory of Open Access Journals
Academic Journals Database
EdNA Online Database
ERA - Educational Research Abstracts Online
Electronic Journals Library
Genamics JournalSeek
Ulrich’s Periodicals Directory

Note: International Journal of Instruction has a wide range of abstracting/indexing services. However, the index services have the right of one-sided termination of the contracts and not to publish any of the articles. Therefore, we do not accept any responsibilities caused by indexing problems.
**Editor in Chief**
Prof. Asım Arı
Eskisehir Osmangazi University TURKEY

**Managing Editor**
Dr. Gökhan Kayır

**Assistant Editors**
Dr. Kerim Sangül
Yunus Emre Institute

**Editorial Assistant**
Dr. Rza Mammadov
Dr. Eren Akdağ Kurnaz
Dumlupınar University, TURKEY

**Technical Assistant**
Dr. Zehra Sümeyye Ertem
Dr. Özgür Sirem
MEB, TURKEY

**Editors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Yousif A. Alshumaimeri</td>
<td>King Saud University, SAUDI ARABIA</td>
</tr>
<tr>
<td>Prof. Luis E. Anido Rifon</td>
<td>University of Vigo, SPAIN</td>
</tr>
<tr>
<td>Prof. Trevor Bond</td>
<td>James Cook University, AUSTRALIA</td>
</tr>
<tr>
<td>Prof. Bronwen Cowie</td>
<td>University of Waikato, NEW ZEALAND</td>
</tr>
<tr>
<td>Prof. Do Coyle</td>
<td>The University of Edinburgh, UK</td>
</tr>
<tr>
<td>Prof. Angelique Dimitracopoulou</td>
<td>University of the Aegean, GREECE</td>
</tr>
<tr>
<td>Prof. William J. Fraser</td>
<td>University of Pretoria, SOUTH AFRICA</td>
</tr>
<tr>
<td>Prof. Thomas Gabriel</td>
<td>University of Zurich, SWITZERLAND</td>
</tr>
</tbody>
</table>

**Language Editorial Board**
Burcu Karafıl – English
Yalova University, TURKEY

**Contact Details:**
http://www.e-iji.net
E-mail: iji@ogu.edu.tr
editor.eiji@gmail.com

The authors are responsible for the errors, if any, in their published articles.
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assoc. Prof. Fasasi Yunus Adebunmi</td>
<td>NIGERIA</td>
</tr>
<tr>
<td>Asst. Prof. Abdelrahman Mohamed Ahmed</td>
<td>OMAN</td>
</tr>
<tr>
<td>Assoc. Prof. Orhan Akınoglu</td>
<td>TURKEY</td>
</tr>
<tr>
<td>Dr. Mohammad Akram</td>
<td>SAUDI ARABIA</td>
</tr>
<tr>
<td>Assoc. Prof. Nor A. Alias, MALESIA</td>
<td></td>
</tr>
<tr>
<td>Prof. Aknatali Alimbekov, KYRGYSTAN</td>
<td></td>
</tr>
<tr>
<td>Assoc. Prof. Ali Al-Issa, OMAN</td>
<td></td>
</tr>
<tr>
<td>Prof. Khaled Al-Ajouni, JORDAN</td>
<td></td>
</tr>
<tr>
<td>Asst. Prof. Hussain Alkharusi, OMAN</td>
<td></td>
</tr>
<tr>
<td>Prof. Isela Almaguer, USA</td>
<td></td>
</tr>
<tr>
<td>Assoc. Prof. Abdu Mohammed Al-Mekhlaf, OMAN</td>
<td>Assoc. Prof. Manuel Lucero, SPAIN</td>
</tr>
<tr>
<td>Prof. Waleed A. Ahmed Alzand, KUWAIT</td>
<td>Assoc. Prof. Zdena Lustigova, CZECH REPUBLIC</td>
</tr>
<tr>
<td>Prof. Abdullah Ambusaidi, OMAN</td>
<td>Prof. Ian Macdonald, AUSTRALIA</td>
</tr>
<tr>
<td>Prof. Neil J. Anderson, USA</td>
<td>Prof. Lazarus Ndiku Makewa, KENYA</td>
</tr>
<tr>
<td>Assoc. Prof. Derek L. Anderson, USA</td>
<td>Asst. Prof. MD. Saiful Malak, BANGLADESH</td>
</tr>
<tr>
<td>Prof. Joel B. Babalola, NIGERIA</td>
<td>Prof. Robin D. Mason, UNITED KINGDOM</td>
</tr>
<tr>
<td>Assoc. Prof. Evangelos Bebetsos, GREECE</td>
<td>Assoc. Prof. Mark A. Minott, CAYMAN ISLANDS</td>
</tr>
<tr>
<td>Assoc. Prof. Santosh Kumar Behera, INDIA</td>
<td>Dr. Norma T. Nemeh, JORDAN</td>
</tr>
<tr>
<td>Assoc. Prof. Thalia Bellali, GREECE</td>
<td>Prof. Nel Noddings, USA</td>
</tr>
<tr>
<td>Assoc. Prof. Mary Jo Garcia Biggs, USA</td>
<td>Prof. Yngve Troye Nordkvelle, NORWAY</td>
</tr>
<tr>
<td>Prof. Larry Boles, USA</td>
<td>Ngboawaji Daniel Nte, NIGERIA</td>
</tr>
<tr>
<td>Prof. Dele Braimoh, SOUTH AFRICA</td>
<td>Eylem Oruç, TURKEY</td>
</tr>
<tr>
<td>Prof. Robert Burden, UNITED KINGDOM</td>
<td>Prof. M. Çağatay Özdemir, TURKEY</td>
</tr>
<tr>
<td>Prof. Marilyn Campbell, AUSTRALIA</td>
<td>Dr. Deborah Osberg, UNITED KINGDOM</td>
</tr>
<tr>
<td>Assoc. Prof. G. Nathan Carnes, USA</td>
<td>Serkan Padem, TURKEY</td>
</tr>
<tr>
<td>Dr. Carmencita L. Castolo, PHILIPPINES</td>
<td>Prof. Santosh Panda, INDIA</td>
</tr>
<tr>
<td>Assoc. Prof. Yong-Fu Chang, TAIWAN</td>
<td>Prof. Hitendra Pillay, AUSTRALIA</td>
</tr>
<tr>
<td>Dr. Lockias Chitamana, ZIMBABWE</td>
<td>Prof. Reza Pishghadam, IRAN</td>
</tr>
<tr>
<td>Prof. Che Kum Clement, BANGLADESH</td>
<td>Prof. Ken Purnell, AUSTRALIA</td>
</tr>
<tr>
<td>Prof. Dale Cook, USA</td>
<td>Prof. Christoph Randler, GERMANY</td>
</tr>
<tr>
<td>Prof. Valentina Dagiene, LITHUANIA</td>
<td>Prof. Norman Reid, UNITED KINGDOM</td>
</tr>
<tr>
<td>Assoc. Prof. Patrick Alan Danaher, AUSTRALIA</td>
<td>Dr. Heri Retnawati, INDONESIA</td>
</tr>
<tr>
<td>Asst. Prof. Jagannath K. Dange, INDIA</td>
<td>Prof. Sushanta Kumar Roul, INDIA</td>
</tr>
</tbody>
</table>
## Contents

From the Editor: Transversalis, the Death of Civic Education  
*Nicolas Schmitt* ...................................................................................................................... i-vii

The Mediating Effects of Self-Efficacy and Classroom Stress on Professional Development and Student-Centered Instruction  
*Sungwhan Hwang* .................................................................................................................... 1-16

JiRQA Learning Model of Based Gender: Cognitive Learning Students in Environmental Pollution Material  
*Yakobus Bustami, Florentina Rahayu Esti Wahyuni, Didin Syafruddin, Marsela, Taslim D. Nur* ................................................................................................................................. 17-28

The Impact of Exchanged Information between School and Parents at the Level of Parent Involvement in School  
*Vlora Sylaj* .............................................................................................................................. 29-46

Facebook Aided Lesson Study Design: Investigating Its Potentials on EFL Students’ Literature Review Writing Skill  
*Susanto, Yudhi Arifani, Farah Natchiar Mohd. Khaja, Paulina* ..................................................... 47-64

The Quality Improvement Indicators of the Curriculum at the Technical and Vocational Higher Education  
*Mahboobe Mohammad Shafi, Mohammad Reza Neyestani, Sayed Ebrahim Mirshah Jafari, Vida Taghvaei* ........................................................................................................................................ 65-84

Eliminating Misconceptions on Reaction Rate to Enhance Conceptual Understanding of Chemical Equilibrium Using EMBE-R Strategy  
*Jusniar Jusniar, Effendy Effendy, Endang Budiasih, Surishno Sutrisno* ....................................... 85-104

Development and Validation of Indonesian Academic Resilience Scale Using Rasch Models  
*Ramdani Ramdani, Fattah Hanurawan, M. Ramli, Blasius Boli Lasan, Afdal Afdal* ....................... 105-120

The Development of Historical Thinking in Colombian Students: A Review of the Official Curriculum and the Saber 11 Test  
*Nancy Palacios Mena* .................................................................................................................. 121-142

The Effect of Hands-On and Computer-Based Learning Activities on Conceptual Understanding and Mathematical Reasoning  
*Nurjanah, Jarnawi, Yudi Wibisono* ............................................................................................ 143-160

Visual and Kinaesthetic Instructional Cues and Deaf People’s Motor Learning  
*Silmara Cristina Pasetto, João Manuel Pardal Barreiros, Umberto Cesar Corrêa, Andrea Michele Freundenheim* ...................................................................................................................... 161-180

Implementation of Project-Based Learning Model and Workforce Character Development for the 21st Century in Vocational High School  
*Dwi Agus Sudjimat, Amat Nyoto, Miftuchin Romlie* .......................................................................... 181-198

Implementation of C-Map Application to Improve Students’ Understanding of Work and Energy Matter  
*Nadi Suprapto, Didin Nur Cahyani, Didit Ardianto, Husni Mubarak* ................................................ 199-214

Teacher’s Use of Literacy Centers to Promote Literacy Acquisition in First Grade Bilingual Students in a South Texas School  
*Fernando Hernandez* .................................................................................................................. 215-234
Pancasila Economic Character Literacy Program for High School Students
Agussalim, Sri Umi Mintarti Widjaja, Agung Haryono, Hari Wahyono..............................................235-252

Classroom Life Perception Scale: A Scale Development Study
Burak Avcic, Tuğba Yanpar Yelken..........................................................253-264

The Effectiveness of Biology Learning-Local Genius Program of Mount Rinjani Area to Improve the Generic Skills
Ika Nurani Dewi, Septiana Dwi Utami, Ismail Effendi, Agus Ramdani, Immy Suci Rohyani..........................................................265-282

The Effect of the Implementation of Teaching Factory and Its Learning Involvement toward Work Readiness of Vocational School Graduates
Agus Prianto, Winardi, Umi Nur Qomariyah..........................................................283-302

Educational Imitation of Basic Job Function Using the Knowledge of English among Technical Major Students
Irina Kotlyarova, Anna Chuvashova..........................................................303-324

Students’ Perceptions of Collaborative Team Teaching and Student Achievement Motivation
Khoirul Anwar, Slamet Asari, Rohmy Hasmah, Candra Hadi Asmara..........................................................325-344

The Effectiveness of Infographic via Interactive Smart Board on enhancing Creative Thinking: A Cognitive Load Perspective
Osamah Mohammad Ameen Aldalala..........................................................345-364

The Effectiveness of Infographic via Interactive Smart Board on enhancing Creative Thinking: A Cognitive Load Perspective
Osamah Mohammad Ameen Aldalala..........................................................345-364

The Correlation between Religiosity and Multiple Intelligences: A Meta-Analysis
Kemanya Karbono, Heri Retnawati..........................................................365-378

Knowledge, Education and Use of Teaching Styles in Physical Education
Maria Fernandez, Maria Espada..........................................................379-394

Strengthening Students’ Self-efficacy and Motivation in Learning Mathematics through the Cooperative Learning Model
Akhsanul Ii’am, Eko Sabdo Satrisno..........................................................395-410

Self-Assessment Based Counseling: A Further Study Planning Service in High School
Syarifuddin Dahlan..........................................................411-426

Dominant Language Competences in the Contemporary Teaching of History as a Prerequisite for a Successful Teaching Process
Vjera Brkovic, Rona Bušljeta Kardum, Marijana Togonal..........................................................427-444

Code-Switching in Lecturer-Students’ Interaction in Thesis Examination: A Case Study in Indonesia
Ridwan Hanafiah, Umar Mono, Muhammad Yusuf..........................................................445-458

Vietnamese EFL High School Students’ Use of Self-Regulated Language Learning Strategies for Project-Based Learning
Thao Quoc Tran, Tu Ngoc Phan Tran..........................................................459-474

Effects of SSCS Teaching Model on Students’ Mathematical Problem-solving Ability and Self-efficacy
Zulkarnain, Hutkemri Zulnaidi, Sasdda Heleni, Muhammad Syafri..........................................................475-488
A Review of Kosovo’s 2015 PISA Results: Analysing the Impact of Teacher Characteristics in Student Achievement
Albulene Grajcevci, Arif Shala ................................................................. 489-506

Causative Correlation of Teacher’s Motivation and Discipline in Banyumanik, Semarang City
Muhamad Afandi, Zulela MS, Amos Neolaka ........................................... 507-520

Self-Efficacy and Career Decision of Pre-Service Secondary School Teachers: A Phenomenological Analysis
Luis Miguel Dos Santos ........................................................................... 521-536

Quality Management of Mathematics Manipulative Products to Support Students’ Higher Order Thinking Skills
Isti Hidayah, Ismarto, Masrukan, Mohammad Askin, Margunani ......................................................... 537-554

Development of Two-Tier Multiple Choice Test to Assess Indonesian Elementary Students’ Higher-Order Thinking Skills
Pedak Rintayati, Hafizah Lakitasari, Ahmad Syawaludin ............................................. 555-566

Developing Action Research Model for Thai Tertiary Classrooms
Afifi Lateh, Mahdee Wardramae, Weahason Weahama, Supansa Savanchatree, Nooraskin Yeessam, Supakan Buathip, Sinee Khuhamuc .............................................................. 567-586

The Increasing Self-Efficacy and Self-Regulated through GeoGebra Based Teaching reviewed from Initial Mathematical Ability (IMA) Level
Zetriuslita, Nofriyandi, Endang Istikomah .......................................................... 587-598

Teacher Work Productivity in Senior High School
Purwani Paji Utami, Niken Vioreza ...................................................................... 599-614

Open-Ended Questions to Assess Critical-Thinking Skills in Indonesian Elementary School
Sarwanto, Laksmi Evasufi Widi Fajari, Chumdari ............................................. 615-646

Moderating Effect of Thai Teachers’ Perspective on the Relationship between Teaching Perspectives, Students’ Engagement
Hareesol Khun-Inkeeree, Luckhana Pimjan, Ayotunde Adetolla Adelaja ................................................................. 631-646

The Comparison of Item Test Characteristics Viewed from Classic and Modern Test Theory
Bambang Subali, Kumaidi, Nonoh Siti Aminah ..................................................... 647-660

Career Development: The Role of Career Counsellor towards Job Counselling
Asrovi, Muhammad Hanif, Budi Setiawan .......................................................... 661-672

Arab Postgraduates’ Readiness towards and Effectiveness of Utilizing Web 2.0 in Language Learning
‘Mohamed noor’ Mahmoud Aref Jarrah, Ali Abbas Falah Alzubi ............................................................ 673-690

Green Chemistry Practicums at Chemical Equilibrium Shift to Enhance Students’ Learning Outcomes
I Wayan Redhana, I Nyoman Suardana ............................................................ 691-708

Empowering Learners’ Reflective Thinking through Collaborative Reflective Learning
Aizan Yaacob, Ratnawati Mohd Asraf, Raja Maznah Raja Hussain, Siti Noor Ismail ...... 709-726

The Effect of Concept Attainment Model on Mathematical Critical Thinking Ability
Lilis Marina Angraini, Astri Wahyuni .................................................................... 727-742
Digital Development of Education and Universities: Global Challenges of the Digital Economy
Abdumalik Maskamovich Abdavakhidov, Elzara Toraxanovna Mannapova, Elvir Munirovich Akmetshin
743-760

Task-Based Assessment in Using Other-Initiated Repair Strategies of the Pre-Service EFL Teachers
Madar Aleksius, Utami Widiati, Saharmanto, Johannes Ananto Prayogo
761-778

Blended Learning Integrated with Innovative Learning Strategy to Improve Self-Regulated Learning
779-794

Pre-Service Teachers’ Prior Learning Experiences of Mathematics and the Influences on Their Beliefs about Mathematics Teaching
Wing Yee Lo
795-812

Components of Chinese Language Teacher’s Functional Competencies: A Confirmatory Factor Analysis
Yaowatida Siewseng, Ampapan Tuntinakhongul, Pariyaporn Tungkunanan
813-826

Flipped Learning, Self-Regulated Learning and Learning Retention of Students with Internal/External Locus of Control
Ensaf Nasser Al Mulhim
827-846

Dominant Factors that Cause Students’ Difficulties in Learning Abstract Algebra: A Case Study at a University in Indonesia
Nina Agustyaningrum, Riska Novia Sari, Agus Maman Abadi, Ali Mahmudi
847-866

A Comparative Study of Stance and Engagement Used by English and Thai Speakers in English Argumentative Essays
Papitchaya Papangkorn, Supakorn Phoocharoensil
867-888

Assessment of the Model of Formation of Professional Competence in the Learning Process of Medical Physics
Mintassova Aigul, Azhibekova Zhanar, Baidullayeva Gulzhakhan, Kulbayeva Marzhan, Kassymova Kamshat, Maksat Aymakhansov
889-906

Effects of Infographics on Developing Computer Knowledge, Skills and Achievement Motivation among Hail University Students
Usama M. Ibrahim, Abdulaziz R. Alamro
907-926

Corpus Pragmatics and Multimodality: Compiling an ad-hoc Multimodal Corpus for EFL Pragmatics Teaching
Manuel Rodríguez Peñarroja
927-946

Empowering Scientific Thinking Skills of Students with Different Scientific Activity Types through Guided Inquiry
Seto Prio Asnoro, Sucia, Baskoro Adi Prayitno
947-962

Understanding and Applying Writing Strategies in Third Cycle of Primary School
Dušanka Popović
963-982

Formative Assessment as a Predictor of Mathematics Teachers’ Levels of Metacognitive Regulation
Ruth Nanjekho Wafubwa, Csaba Csíkos
983-998
An Analysis of the Causal Relationships in Sustainable Consumption Behaviour (SCB) of Thai Student Science Teachers
Paitoon Pimdee

Classroom Management Skills among Kindergarten Teachers as related to Emotional Intelligence and Self-Efficacy
Qutaiba Agharia

Corrigendum