

International Journal of Instruction



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 Sarıgül
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

Prof. Yousif A. Alshumaimeri
King Saud University, SAUDI ARABIA,

Prof. Luis E. Anido Rifon
University of Vigo, SPAIN

Prof. Trevor Bond
James Cook University, AUSTRALIA

Prof. Bronwen Cowie
University of Waikato, NEW ZEALAND

Prof. Do Coyle
The University of Edinburgh, UK

Prof. Angelique Dimitracopoulou
University of the Aegean, GREECE

Prof. William J. Fraser
University of Pretoria, SOUTH AFRICA

Prof. Thomas Gabriel
University of Zurich, SWITZERLAND

Assoc. Prof. Sheng-Wen Hsieh
Far East University, TAIWAN

Prof. Jennifer L. Jolly
University of Alabama, USA

Prof. Piet Kommers
University of Twente, NETHERLANDS

Prof. Christoph Randler
University of Tübinge, GERMANY

Prof. Elsebeth Korsgaard Sorensen
University of Aarhus, DENMARK

Prof. Ken Stevens
Memorial University of Newfoundland, CANADA

Prof. Selehattin Turan
Uludağ University, TURKEY

Language Editorial Board

Burcu Karafil – 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.



Advisory Board

Assoc. Prof. Fasasi Yunus Adebunmi, <i>NIGERIA</i>	Asst. Prof. Rula Khzouz, <i>JORDAN</i>
Asst. Prof. Abdelrahman Mohamed Ahmed, <i>OMAN</i>	Prof. Abdurrahman Kılıç, <i>TURKEY</i>
Assoc. Prof. Orhan Akinoğlu, <i>TURKEY</i>	Prof. Remzi Y. Kınca, <i>TURKEY</i>
Dr. Mohammad Akram, <i>SAUDI ARABIA</i>	Prof. Val Klenowski, <i>AUSTRALIA</i>
Assoc. Prof. Nor A. Alias, <i>MALAYSIA</i>	Asst. Prof. Yee Lai Kelly KU, <i>HONG KONG</i>
Prof. Akmatali Alimbekov, <i>KYRGYZSTAN</i>	Prof. Colin Lankshear, <i>AUSTRALIA</i>
Assoc. Prof. Ali Al-Issa, <i>OMAN</i>	Prof. Kar-Tin Lee, <i>AUSTRALIA</i>
Prof. Khaled Al-Ajlouni, <i>JORDAN</i>	Assoc. Prof. Hsin-Chih Lin, <i>TAIWAN</i>
Asst. Prof. Hussain Alkharusi, <i>OMAN</i>	Dr. Hussain Ahmed Liton, <i>SAUDI ARABIA</i>
Prof. Isela Almaguer, <i>USA</i>	Assoc. Prof. Feng-Jung Liu, <i>TAIWAN</i>
Assoc. Prof. Abdu Mohammed Al-Mekhlaf, <i>OMAN</i>	Assoc. Prof. Manuel Lucero, <i>SPAIN</i>
Prof. Waleed K. A. Ahmed Alzand, <i>KUWAIT</i>	Assoc. Prof. Zdena Lustigova, <i>CZECH REPUBLIC</i>
Prof. Abdullah Ambusaidi, <i>OMAN</i>	Prof. Ian Macdonald, <i>AUSTRALIA</i>
Prof. Neil J. Anderson, <i>USA</i>	Prof. Lazarus Ndiku Makewa, <i>KENYA</i>
Assoc. Prof. Derek L. Anderson, <i>USA</i>	Asst. Prof. MD. Saiful Malak, <i>BANGLADESH</i>
Prof. Joel B. Babalola, <i>NIGERIA</i>	Prof. Robin D. Mason, <i>UNITED KINGDOM</i>
Assoc. Prof. Evangelos Bebetos, <i>GREECE</i>	Assoc. Prof. Mark A. Minott, <i>CAYMAN ISLANDS</i>
Assoc. Prof. Santosh Kumar Behera, <i>INDIA</i>	Dr. Norma T. Neme, <i>JORDAN</i>
Assoc. Prof. Thalia Bellali, <i>GREECE</i>	Prof. Nel Noddings, <i>USA</i>
Assoc. Prof. Mary Jo Garcia Biggs, <i>USA</i>	Prof. Yngve Troye Nordkvelle, <i>NORWAY</i>
Prof. Larry Boles, <i>USA</i>	Ngboawaji Daniel Nte, <i>NIGERIA</i>
Prof. Dele Braimoh, <i>SOUTH AFRICA</i>	Eylem Oruç, <i>TURKEY</i>
Prof. Robert Burden, <i>UNITED KINGDOM</i>	Prof. M. Çağatay Özdemir, <i>TURKEY</i>
Prof. Marilyn Campbell, <i>AUSTRALIA</i>	Dr. Deborah Osberg, <i>UNITED KINGDOM</i>
Assoc. Prof. G. Nathan Carnes, <i>USA</i>	Serkan Padem, <i>TURKEY</i>
Dr. Carmencita L. Castolo, <i>PHILIPPINES</i>	Prof. Santosh Panda, <i>INDIA</i>
Assoc. Prof. Yong-Fu Chang, <i>TAIWAN</i>	Prof. Hitendra Pillay, <i>AUSTRALIA</i>
Dr. Lockias Chitanana, <i>ZIMBABWE</i>	Prof. Reza Pishghadam, <i>IRAN</i>
Prof. Che Kum Clement, <i>BANGLADESH</i>	Prof. Ken Purnell, <i>AUSTRALIA</i>
Prof. Dale Cook, <i>USA</i>	Prof. Christoph Randler, <i>GERMANY</i>
Prof. Valentina Dagiene, <i>LITHUANIA</i>	Prof. Norman Reid, <i>UNITED KINGDOM</i>
Assoc. Prof. Patrick Alan Danaher, <i>AUSTRALIA</i>	Dr. Heri Retnawati, <i>INDONESIA</i>
Asst. Prof. Jagannath K. Dange, <i>INDIA</i>	Prof. Sushanta Kumar Roul, <i>INDIA</i>



- Asst. Prof. Şahin Danişman, *TURKEY*
Asst. Prof. Ajay Das, *USA*
Prof. Estella De Los Santos, *USA*
Asst. Prof. İbrahim Delen, *TURKEY*
Prof. Ugur Demiray, *TURKEY*
Assoc. Prof. Esra Dereli, *TURKEY*
Assoc. Prof. Yannis Dimitriadis, *SPAIN*
Asst. Prof. Goulimaris Dimitris, *GREECE*
Asst. Prof. Mohamed Elsaadani, *EGYPT*
Prof. Noriko Fujioka-Ito, *ABD*
Prof. M. Jayne Fleener, *USA*
Assoc. Prof. Kristin A. Gansle, *USA*
Assoc. Prof. Lynn Kelting-Gibson, *USA*
Prof. Margarita Victoria Gomez, *BRAZİL*
Prof. Lena Green, *SOUTH AFRICA*
Asst. Prof. Semra GÜNGÖR, *TURKEY*
Prof. Carol Hall, *UNITED KINGDOM*
Prof. Amani Hamdan, *SAUDI ARABIA*
Assoc. Prof. Jace Hargis, *USA*
Asst. Prof. Seyed Ahmad Hashemi, *IRAN*
Dr. Mark van't Hooft, *USA*
Dr. Ghazi Adib Mustafa Husnieh, *JORDAN*
Asst. Prof. Irshad Hussain, *PAKISTAN*
Jaya Nur Iman, *INDONESIA*
Prof. Majed Abu Jaber, *JORDAN*
Assoc. Prof. Jason D. Johnson, *UAE*
Asst. Prof. Troy Jones, *USA*
Prof. William E. Doll, Jr., *USA*
Norma A. Juarez Collazo, *BELGIUM*
Prof. Gregory J. Kelly, *USA*
Assoc. Prof. Shahadat Hossain Khan, *BANGLADESH*
Prof. Abdalla Mohamed Khataybehi, *JORDAN*
Prof. Peter A. Rubba, *USA*
Prof. Despina Sapountzi-Krepia, *CYPRUS*
Prof. Barbara Seidemann, *SWITZERLAND*
Assoc. Prof. Yilfashewa Seyoum, *ETHIOPIA*
Dr. Afsaneh Sharif, *CANADA*
Nazia Sharif, *PAKISTAN*
Prof. Ramesh Chander Sharma, *INDIA*
Asst. Prof. Laurie A. Sharp, *USA*
Prof. Ju-Ling Shih, *TAIWAN*
Asst. Prof. Mahesh B. Shinde, *INDIA*
Assoc. Prof. Hosin Shirvani, *ABD*
Assoc. Prof. Harison Mohd Sidek, *MALAYSIA*
Assoc. Prof. Parlindungan Sinaga, *INDONESIA*
Assoc. Prof. Richard B. Speaker, Jr., *USA*
Prof. N. Suzanne Standerford, *USA*
Prof. Howard Stevenson, *UNITED KINGDOM*
Dr. Simon Stobart, *UNITED KINGDOM*
Assoc. Prof. Pei-Chen Sun, *TAIWAN*
Prof. Karen Swan, *USA*
Prof. Jim Taylor, *AUSTRALIA*
Prof. Siew Ming Thang, *MALAYSIA*
Prof. Y. Gürçan Ültanir, *TURKEY*
Dr. Muhammad A. Wahid Usmani, *SAUDI ARABIA*
Prof. Erwin Wagner, *GERMANY*
Assoc. Prof. Michael Whitacre, *USA*
Asst. Prof. Julia Wilkins, *USA*
Dr. Kung Teck Wong, *MALAYSIA*
Asst. Prof. Chia Jung Yeh, *USA*
Prof. Ali Yildirim, *TURKEY*
Prof. Allan E. Young, *CAYMAN ISLANDS*
Asst. Prof. Muhammad Imran Yousuf, *PAKISTAN*
Dr. Yunisrina Qismullah Yusuf, *INDONESIA*
Prof. Galip Yüksel, *TURKEY*
Assoc. Prof. Eleni Zetou, *GREECE*



Contents

From the Editor: Transversalism, the Death of Civic Education <i>Nicolas Schmitt</i>	i-vii
The Mediating Effects of Self-Efficacy and Classroom Stress on Professional Development and Student-Centered Instruction <i>Sunghwan Hwang</i>	1-16
JiRQA Learning Model of Based Gender: Cognitive Learning Students in Environmental Pollution Material <i>Yakobus Bustami, Florentina Rahayu Esti Wahyuni, Didin Syafruddin, Marsela, Taslim D. Nur</i>	17-28
The Impact of Exchanged Information between School and Parents at the Level of Parent Involvement in School <i>Vlora Sylaj</i>	29-46
Facebook Aided Lesson Study Design: Investigating Its Potentials on EFL Students' Literature Review Writing Skill <i>Susanto, Yudhi Arifani, Farah Natchiar Mohd. Khaja, Paulina</i>	47-64
The Quality Improvement Indicators of the Curriculum at the Technical and Vocational Higher Education <i>Mahboobe Mohammad Shafi, Mohammad Reza Neyestani, Sayed Ebrahim Mirshah Jafari, Vida Taghvaei</i>	65-84
Eliminating Misconceptions on Reaction Rate to Enhance Conceptual Understanding of Chemical Equilibrium Using EMBE-R Strategy <i>Jusniar Jusniar, Effendy Effendy, Endang Budiasih, Sutrisno Sutrisno</i>	85-104
Development and Validation of Indonesian Academic Resilience Scale Using Rasch Models <i>Ramdani Ramdani, Fattah Hanurawan, M. Ramli, Blasius Boli Lasan, Afdal Afdal</i>	105-120
The Development of Historical Thinking in Colombian Students: A Review of the Official Curriculum and the Saber 11 Test <i>Nancy Palacios Mena</i>	121-142
The Effect of Hands-On and Computer-Based Learning Activities on Conceptual Understanding and Mathematical Reasoning <i>Nurjanah, Jarnawi, Yudi Wibisono</i>	143-160
Visual and Kinaesthetic Instructional Cues and Deaf People's Motor Learning <i>Silmara Cristina Pasetto, João Manuel Pardal Barreiros, Umberto Cesar Corrêa, Andrea Michele Freudenheim</i>	161-180
Implementation of Project-Based Learning Model and Workforce Character Development for the 21st Century in Vocational High School <i>Dwi Agus Sudjimat, Amat Nyoto, Maftuchin Romlie</i>	181-198
Implementation of C-Map Application to Improve Students' Understanding of Work and Energy Matter <i>Nadi Suprpto, Didin Nur Cahyani, Didit Ardianto, Husni Mubarak</i>	199-214
Teacher's Use of Literacy Centers to Promote Literacy Acquisition in First Grade Bilingual Students in a South Texas School <i>Fernando Hernandez</i>	215-234



Pancasila Economic Character Literacy Program for High School Students <i>Agussalim, Sri Umi Mintarti Widjaja, Agung Haryono, Hari Wahyono</i>	235-252
Classroom Life Perception Scale: A Scale Development Study <i>Burak Ayçiçek, Tuğba Yanpar Yelken</i>	253-264
The Effectiveness of Biology Learning-Local Genius Program of Mount Rinjani Area to Improve the Generic Skills <i>Ika Nurani Dewi, Septiana Dwi Utami, Ismail Effendi, Agus Ramdani, Immy Suci Rohyani</i>	265-282
The Effect of the Implementation of Teaching Factory and Its Learning Involvement toward Work Readiness of Vocational School Graduates <i>Agus Prianto, Winardi, Umi Nur Qomariyah</i>	283-302
Educational Imitation of Basic Job Function Using the Knowledge of English among Technical Major Students <i>Irina Kotlyarova, Anna Chuvashova</i>	303-324
Students' Perceptions of Collaborative Team Teaching and Student Achievement Motivation <i>Khoirul Anwar, Slamet Asari, Rohmy Husniah, Candra Hadi Asmara</i>	325-344
The Effectiveness of Infographic via Interactive Smart Board on enhancing Creative Thinking: A Cognitive Load Perspective <i>Osamah Mohammad Ameen Aldalalah</i>	345-364
The Correlation between Religiosity and Multiple Intelligences: A Meta-Analysis <i>Kemanya Karbono, Heri Retnawati</i>	365-378
Knowledge, Education and Use of Teaching Styles in Physical Education <i>María Fernández, María Espada</i>	379-394
Strengthening Students' Self-efficacy and Motivation in Learning Mathematics through the Cooperative Learning Model <i>Akhsanul In'am, Eko Sabdo Sutrisno</i>	395-410
Self-Assessment Based Counseling: A Further Study Planning Service in High School <i>Syarifuddin Dahlan</i>	411-426
Dominant Language Competences in the Contemporary Teaching of History as a Prerequisite for a Successful Teaching Process <i>Vjera Brković, Rona Bušljeta Kardum, Marijana Togonal</i>	427-444
Code-Switching in Lecturer-Students' Interaction in Thesis Examination: A Case Study in Indonesia <i>Ridwan Hanafiah, Umar Mono, Muhammad Yusuf</i>	445-458
Vietnamese EFL High School Students' Use of Self-Regulated Language Learning Strategies for Project-Based Learning <i>Thao Quoc Tran, Tu Ngoc Phan Tran</i>	459-474
Effects of SSCS Teaching Model on Students' Mathematical Problem-solving Ability and Self-efficacy <i>Zulkarnain, Hutkemri Zulnaldi, Susda Heleni, Muhammad Syafri</i>	475-488



A Review of Kosovo's 2015 PISA Results: Analysing the Impact of Teacher Characteristics in Student Achievement <i>Albulene Grajcevc, Arif Shala</i>	489-506
Causative Correlation of Teacher's Motivation and Discipline in Banyumanik, Semarang City <i>Muhamad Afandi, Zulela MS, Amos Neolaka</i>	507-520
Self-Efficacy and Career Decision of Pre-Service Secondary School Teachers: A Phenomenological Analysis <i>Luis Miguel Dos Santos</i>	521-536
Quality Management of Mathematics Manipulative Products to Support Students' Higher Order Thinking Skills <i>Isti Hidayah, Isnarto, Masrukan, Mohammad Asikin, Margunani</i>	537-554
Development of Two-Tier Multiple Choice Test to Assess Indonesian Elementary Students' Higher-Order Thinking Skills <i>Peduk Rintayati, Hafizhah Lukitasari, Ahmad Syawaludin</i>	555-566
Developing Action Research Model for Thai Tertiary Classrooms <i>Afifi Lateh, Mahdee Waedramae, Weahason Weahama, Supansa Suvanchatree, Noorasikin Yeesaman, Supakan Buathip, Sinee Khuhamuc</i>	567-586
The Increasing Self-Efficacy and Self-Regulated through GeoGebra Based Teaching reviewed from Initial Mathematical Ability (IMA) Level <i>Zetriuslita, Nofriyandi, Endang Istikomah</i>	587-598
Teacher Work Productivity in Senior High School <i>Purwani Puji Utami, Niken Vioreza</i>	599-614
Open-Ended Questions to Assess Critical-Thinking Skills in Indonesian Elementary School <i>Sarwanto, Laksmi Evasufi Widi Fajari, Chumdari</i>	615-630
Moderating Effect of Thai Teachers' Perspective on the Relationship between Teaching Perspectives, Students' Engagement <i>Hareesol Khun-Inkeeree, Luckhana Pimjan, Ayotunde Adetola Adelaja</i>	631-646
The Comparison of Item Test Characteristics Viewed from Classic and Modern Test Theory <i>Bambang Subali, Kumaidi, Nonoh Siti Aminah</i>	647-660
Career Development: The Role of Career Counsellor towards Job Counselling <i>Asrowi, Muhammad Hanif, Budi Setiawan</i>	661-672
Arab Postgraduates' Readiness towards and Effectiveness of Utilizing Web 2.0 in Language Learning <i>'Mohamed noor' Mahmoud Aref Jarrah, Ali Abbas Falah Alzubi</i>	673-690
Green Chemistry Practicums at Chemical Equilibrium Shift to Enhance Students' Learning Outcomes <i>I Wayan Redhana, I Nyoman Suardana</i>	691-708
Empowering Learners' Reflective Thinking through Collaborative Reflective Learning <i>Aizan Yaacob, Ratnawati Mohd Asraf, Raja Maznah Raja Hussain, Siti Noor Ismail</i>	709-726
The Effect of Concept Attainment Model on Mathematical Critical Thinking Ability <i>Lilis Marina Angraini, Astri Wahyuni</i>	727-742



Digital Development of Education and Universities: Global Challenges of the Digital Economy <i>Abdumalik Maxkamovich Abduvakhidov, Elzara Toraxanovna Mannapova, Elvir Munirovich Akhmetshin</i>	743-760
Task-Based Assessment in Using Other-Initiated Repair Strategies of the Pre-Service EFL Teachers <i>Madar Aleksius, Utami Widiati, Suharmanto, Johannes Ananto Prayogo</i>	761-778
Blended Learning Integrated with Innovative Learning Strategy to Improve Self-Regulated Learning <i>Arsad Bahri, Irma Suryani Idris, Hasmunarti Muis, Muh. Arifuddin, Muh. Jibrán Nidhal Fikri</i>	779-794
Pre-Service Teachers' Prior Learning Experiences of Mathematics and the Influences on Their Beliefs about Mathematics Teaching <i>Wing Yee Lo</i>	795-812
Components of Chinese Language Teacher's Functional Competencies: A Confirmatory Factor Analysis <i>Yaowatida Siewseeng, Ampapan Tuntinakhongul, Pariyaporn Tungkunan</i>	813-826
Flipped Learning, Self-Regulated Learning and Learning Retention of Students with Internal/External Locus of Control <i>Ensaf Nasser Al Mulhim</i>	827-846
Dominant Factors that Cause Students' Difficulties in Learning Abstract Algebra: A Case Study at a University in Indonesia <i>Nina Agustyaningrum, Riska Nova Sari, Agus Maman Abadi, Ali Mahmudi</i>	847-866
A Comparative Study of Stance and Engagement Used by English and Thai Speakers in English Argumentative Essays <i>Papitchaya Papangkorn, Supakorn Phoocharoenkil</i>	867-888
Assessment of the Model of Formation of Professional Competence in the Learning Process of Medical Physics <i>Mintassova Aigul, Azhibekova Zhanar, Baidullayeva Gulzhakhan, Kulbayeva Marzhan, Kassymova Kamshat, Maksat Aymakhanov</i>	889-906
Effects of Infographics on Developing Computer Knowledge, Skills and Achievement Motivation among Hail University Students <i>Usama M. Ibrahim, Abdulaziz R. Alamro</i>	907-926
Corpus Pragmatics and Multimodality: Compiling an ad-hoc Multimodal Corpus for EFL Pragmatics Teaching <i>Manuel Rodríguez Peñarroja</i>	927-946
Empowering Scientific Thinking Skills of Students with Different Scientific Activity Types through Guided Inquiry <i>Seto Prio Asmoro, Suciati, Baskoro Adi Prayitno</i>	947-962
Understanding and Applying Writing Strategies in Third Cycle of Primary School <i>Duřanka Popović</i>	963-982
Formative Assessment as a Predictor of Mathematics Teachers' Levels of Metacognitive Regulation <i>Ruth Nanjekho Wafubwa, Csaba Csikos</i>	983-998



An Analysis of the Causal Relationships in Sustainable Consumption Behaviour (SCB) of Thai Student Science Teachers <i>Paitoon Pimdee</i>	999-1018
Classroom Management Skills among Kindergarten Teachers as related to Emotional Intelligence and Self-Efficacy <i>Qutaiba Agbaria</i>	1019-1034
Corrigendum.....	1035-1037