

# International Journal of Progressive Education

ISSN: 1554-5210









# International Journal of

# **Progressive Education**

Volume 16 Number 3 June 2020

DOI: 10.29329/ijpe.2020.248



An International Journal Published by International Association of Educators (INASED)

### **International Journal of Progressive Education**

**Frequency:** Six times a year.

**ISSN:** 1554-5210

Owner: International Association of Educators

Publisher: Pen Academic Publishing

### **Indexing/Abstracting:**

1. OCLC-WorldCat: <a href="http://www.oclc.org/worldcat/default.htm">http://www.oclc.org/worldcat/default.htm</a>

2. Directory of Open Access Journals: (DOAJ): http://www.doaj.org/home

3. EBSCO Publication: <a href="http://www.ebsco.com">http://www.ebsco.com</a>

4. Cabell's Directory of Publishing: <a href="http://www.cabells.com">http://www.cabells.com</a>

5. ERIC: <a href="http://www.eric.ed.gov">http://www.eric.ed.gov</a>

## 2020 Subscription Rates

• \$35 Association Member USA (Canada: \$40; Rest of World: \$50)

• \$45 Individual USA (Canada: \$50; Rest of World: \$55)

• \$35 Student USA (Canada: \$40; Rest of World: \$50)

• \$140 Library/Institution USA (Canada: \$160; Rest of World: \$160)

Single Issues and Back Issues: \$25 USA (Canada: \$35; Rest of World: \$35)

If you wish to subscribe for the printed edition of IJPE, please send the subscription fee as check or money order (payable to International Association of Educators) to the following address:

International Association of Educators

c/o: Dr. Alex Jean-Charles 901 S National Ave Hill Hall 205D Springfield, MO 65897

Print copies of past issues are also available for purchased by contacting the Customer Service department ijpe-editor@penpublishing.net

# International Journal of Progressive Education, Volume 16 Number 3, 2020 © 2020 INASED

### **International Journal of Progressive Education**

Editor:

Hakan Dedeoglu Hacettepe University, Turkey

Managing Editor:

Mustafa Yunus Eryaman Canakkale Onsekiz Mart University, Turkey

Associate Editor:

Chen Xinren Nanjing University, China

Assistant Managing Editors:

Eryca Rochelle Neville University of Missouri-Columbia, USA
Alex Jean-Charles SUNY College at Oneonta, USA

Mustafa Koc Isparta Suleyman Demirel University, Turkey

He Ning Nanjing University, China

Editorial Board:

Bertram Chip Bruce University of Illinois at Urbana-Champaign, USA

Peggy Placier University of Missouri-Columbia, USA
Yang Changyong Southwest China Normal University China
Sharon Tettegah University of Illinois at Urbana-Champaign, USA
Fernando Galindo Universidad Mayor de San Simón, Bolivia
Susan Matoba Adler University of Hawaii West Oahu, USA
Carol Gilles University of Missouri-Columbia, USA
Julie Matthews University of the Sunshine Coast, Australia

Nezahat Guclu Gazi University, Turkey

Cushla Kapitzke University of Queensland, Australia
Catalina Ulrich Universitatea din Bucuresti, Romania
Juny Montoya Universidad de Los Andes, Bogotá, Colombia

Winston Jumba Akala Catholic University of Eastern Africa, Kenya

Kwok Keung HO Lingnan University, Hong Kong

Sara Salloum University of Illinois at Urbana-Champaign, USA

Pragasit Sitthitikul Walailak University, Thailand Serkan Toy Iowa State University, USA

Catherine D Hunter University of Illinois at Urbana-Champaign, USA
Bongani Bantwini University of Illinois at Urbana-Champaign, USA

Mehmet Acikalin Istanbul University, Turkey

Luisa Rosu University of Illinois at Urbana-Champaign, USA

Sheila L. Macrine Montclair State University, USA
Tuncay Saritas Iowa State University, USA

Martina Riedler Canakkale Onsekiz Mart University, Turkey

Ihsan Seyit Ertem Gazi University, Turkey

Youngyung Min
University of Illinois at Urbana-Champaign, USA
Raul Alberto Mora Velez
University of Pontificia Bolivariana, Columbia
Van-Anthoney Hal
University of Illinois at Urbana-Champaign, USA

Chan Raymond M.C. Hong Kong Baptist University
Pauline Sameshima Lakehead University, Canada
Erdal Toprakci Ege University, Turkey

Hye-Young Park University of Illinois at Urbana-Champaign, USA

Ali Ekber Sahin Hacettepe University, Turkey
John L. Pecore University of West Florida, USA

# International Journal of Progressive Education, Volume 16 Number 3, 2020 © 2020 INASED

Salim Razı Canakkale Onsekiz Mart University, Turkey

Yasser A. Al-Hilawani Yarmouk University, Irbid, Jordan

Levent Cetinkaya Turkish Educational Research Association

Serkan Yılmaz Hacettepe University, Turkey John L. Pecore University of West Florida

David Ansong University of North Carolina at Chapel Hill

Arturo Rodriguez
Boise State University, USA
Michael Jessee Adkins
Marshall University, USA
Thomas G Ryan
Nipissing University, Canada
Mustapha Alhassan
Clark Atlanta University, USA

Advisory Board

Lu Youquan East China Normal University Ma Hemin East China Normal University Chrispen Matsika Georgia College & State University Jeylan Woliye Hussein Almeya University, Ethiopia Zorhasni Zainal Abiddin University Pudra Malasia Sevgi Kingir Hacettepe University Yalcin Yalaki Hacettepe University Serkan Yilmaz Hacettepe University Pinar Ozdemir Hacettepe University Nergiz Kardas Hacettepe University Hüseyin Kotaman Harran University Ahmet Saylık Ankara University Hakan Sarıçam **Dumlupinar University** Abuzer Akgün Adıyaman University Munise Seçkin Kapucu Osmangazi University Şükran Uçuş Ahi Evran University

Engin Karadağ Eskisehir Osmangazi University
M Bahattin Acat Eskisehir Osmangazi University

Zeynep Sonay Polat Ay Hacettepe University
Feyzullah Şahin Düzce University
Özlem Çakır Ankara University
Gökhan Güneş Hakkari University

Ann Marie Smith University of Texas of the Permian Basin

Selim Soner Sütçü Başkent University

Amrita Dhawan City University of New York

**Editorial Assistants** 

Levent Cetinkaya Turkish Educational Research Association

Ulas Yabanova Dumlupınar University, Turkey

The views expressed in this publication are not necessarily those of the Editor or the Editorial Review Board, nor the officers of the International Association of Educators (INASED). Copyright, 2020, International Association of Educators (INASED). ISSN 1554-5210

### **TABLE OF CONTENTS**

Volume 16, Number 3 June 2020

### **Articles**

01 Ethical Dilemmas: A Problematic Situation for Teachers

Author: Neşe Börü

18 District Leadership Study: A Bivariate Analysis of Language Descriptors in Defining Educational Leadership Constructs

Author: Sean Lennon

34 Determining the Standards of Teaching and Learning Process as a Component of Curriculum

Authors: Ferdi Bahadır, Murat Tuncer

53 Gender Gap and Career Choices in STEM Education: Turkey Sample

Authors: Ayse Ciftci, Mustafa Sami Topcu, Ibrahim Erdogan

- 67 Relationship between High School Students' Motivation Levels and Learning Strategies
  Author: Gülçin Saraçoğlu
- 84 Investigating Invariant Item Ordering Using Mokken Scale Analysis for Dichotomously Scored Items

Author: Ezgi Mor Dirlik

97 The Element of Water in the Tales and Strories of Ferda İzbudak Akinci

Authors: Esma Dumanlı Kadızade, Ayşe Tahta

111 Comparing Performance of Different Equating Methods in Presence and Absence of DIF

Items in Anchor Test

Authors: Nese Gübes, Seyma Uyar

123 Career Planning Scale of Students Studied in Sports Sciences (CPS): Validity and Reliability Study

Authors: Sultan Yavuz Eroglu, Erdem Eroğlu

132 Why Do Students Prefer Different Question Types?

Author: Nihan Sölpük Turhan

# 142 Determination of Science and Primary Teachers' Teaching and Learning Conceptions and Constructivist Learning Environment Perceptions

Authors: Tuğba Ecevit, Pınar Özdemir

# 156 The Relationship Between Teacher Candidates' Critical Thinking Standards and Reflective Thinking Skills

Authors: Eray Eğmir, İjlal Ocak

# 171 A Follow-up Study on the Metaphoric Perception of Secondary School Students from TEOG to LGS

Authors: Pınar Tağrikulu, Alper Kesten

# 189 Use of the Public Service Ads in Human Rights, Citizenship and Democracy Courses: A Mixed Method Study

Authors: Nuray Kurtdede Fidan, Tuğba Selanik Ay

# 201 Early Predictors for Kindergarten Students at Risk for Dyslexia: A Two-Year Longitudinal Study

Author: Emine Balcı

# 211 Relationships between Job Satisfaction, Motivation and Life Satisfaction in the Teachers: A Structural Equation Modeling Study

Author: Halil Sari, Alper Yetkiner

# 223 Investigation of the Relationships among Psychological Counselor Candidates' Counseling Self-Efficacy, Multicultural Competence, Gender Roles, and Mindfulness Authors: Fuad Bakioğlu, Ayşe Sibel Türküm

# 240 Investigation of the Relationship Between Preschool Teachers' Perceptions of Efficacy in Mathematics Education and Their Attitudes Towards Mathematics Education

Authors: Maide Orçan Kaçan, Seda Ata, İlayda Kimzan, Mustafa Nişan

### 253 Testing for Bidirectional Relationship Between Reading and Writing Skills

Authors: Ozen Yıldırım, Safiye Bilican Demir, Ömer Kutlu

# 270 Effect of Digital Writing Workshop Activities on Writing Motivation and Development of Story Writing Skills

Authors: Nurhan Aktaş, Hayati Akyol