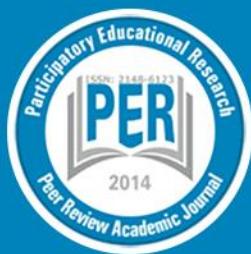


ISSN: 2148-6123 • PERJOURNAL.COM



PARTICIPATORY EDUCATIONAL RESEARCH

VOLUME 8 • ISSUE 4 • DECEMBER 2021



Participatory Educational Research (PER)

ISSN: 2148-6123

Double Blind Peer Review International Academic Journal

**Volume 8, Issue 4
December 2021**

**Indexed in Eric, Scopus, Ebsco, Turkish Educational Index, Idealonline, Sicilit,
Rootindex, Asos Index**

OWNER & PUBLISHER

Dr. Özgen KORKMAZ

Amasya University, Technology Faculty, Department of Computer Engineering
Amasya/Turkey

Dr. Recep ÇAKIR

Amasya University, Education Faculty, Department of Computer Education and Instructional Technology
Amasya/Turkey

EDITOR IN CHIEF

Dr. Özgen KORKMAZ (Amasya University, Instructional Technology, Turkey)

EDITORS

Dr. Recep ÇAKIR (Amasya University, Instructional Technology, Turkey)

Dr. Norma NEL (University of South Africa, Educational Psychology, South Africa)

Dr. Norma ROMM (University of South Africa, Adult Basic Education and Youth Development, South Africa)

Dr. Emrah AKMAN (Ordu University, Turkey)

Dr. Pınar AYYILDIZ (Ankara Medipol University, Turkey)

Dr. Volkan KUKUL (Amasya University, Turkey)

LANGUAGE EDITOR

Dr. Pınar AYYILDIZ (Ankara Medipol University)

PUBLICATION EDITOR

Lec. S. Serkan TAN (Amasya University, Turkey)

EDITORIAL BOARD

Dr. Ahmet MAHİROĞLU (Gazi University, Turkey)

Dr. Aykut Emre BOZDOĞAN (Gaziosmanpaşa University, Science Education, Turkey)

Dr. Büket AKKOYUNLU (Hacettepe University, Turkey)

Dr. Chi-Jen HUANG (National Chiayi University, Taiwan)

Dr. Dimiter G. VELEV (University of National and World Economy, Bulgaria)

Dr. Dragana Martinovic (University of Windsor, Canada)

Dr. Deniz DERYAKULU (Ankara University, Turkey)

Dr. Dorian Stoilescu (University of Western Sydney NSW, Australia)

Dr. Ertuğrul USTA (Necmettin Erbakan University, Instructional Technology, Turkey)

Dr. Fok PING-KWAN (Hong Kong Institute of Education, Hong Kong)

Dr. Gail CARUTH (Texas A&M University-Commerce, USA)

Dr. Hafize KESER (Ankara University, Turkey)

Dr. Halil İbrahim YALIN (Gazi University, Turkey)

Dr. Hsueh-hua CHUANG (National Sun Yat-sen University, Taiwan)

Dr. H. Ferhan ODABAŞI (Anatolia University, Turkey)

Dr. Helen R. ABADIANO (Central Connecticut State University, USA)

Dr. Esteban Vazquez Cano (Universidad Nacional de Educación a Distancia, Spain)

Dr. Inés LOZANO-CABEZAS (University of Alicante, Spain)

Dr. Janet MCINTYRE (Flinders University Adelaide Area, Australia)

Dr. Javier Fombona CADAVIECO (Universidad de Oviedo, Spain)

Dr. Jeffrey L. DEREVENSKY (McGill University, Canada)

Dr. Jeonghee NAM (Pusan National University, Korea)

Dr. John HAMMOND (University of Canberra, Australia)

Dr. José GIJON PUERTA (Universidad de Granada, Spain)

Dr. Kristóf FENYVESI (University of Jyväskylä, Finland)

Dr. LDM LEBELOANE (University of South Africa, South Africa)

Dr. LINPU WANG (Zhejiang International Studies University, China)

Dr. María Angeles Pascual Sevillano (Universidad de Oviedo, Spain)

Dr. Marcos Jesús IGLESIAS-MARTINEZ (University of Alicante, Spain)

Dr. Margaret MURUGAMI (Kenyatta University, Kenya)

Dr. Michelle FINESTONE (University of Pretoria, South Africa)

Dr. Mike DIBOLL (University of Sussex, UK) Dr. Mary C. HERRING (University of Northern Iowa, USA)

Dr. Mitchell BECK (Central Connecticut State University, USA)

Dr. Murat GUNEL (TED University, Turkey)

Dr. Oktay AKBAŞ (Kırıkkale University, Turkey)

Dr. Oluyemi STEPHENS (University of South Africa, South Africa)



Participatory Educational Research (PER)

Dr. Orhan KARAMUSTAFAOĞLU (Amasya University, Turkey)
 Dr. Petra ENGELBRECHT (Canterbury Christ Church University, UK).
 Dr. Pieter Hertzog dU TOIT (University of Pretoria, South Africa).
 Dr. Raymond LEBLANC (University of Ottawa, Canada)
 Dr. Rachel OUTHRED (Oxford Policy Management, UK)
 Dr. Revathy PARAMESWARAN (P.S. Senior Secondary school, India)
 Dr. Ruth Gannon COOK (DePaul University, USA)
 Dr. Soner M. ÖZDEMİR (Mersib University, Turkey)
 Dr. Sofia D. ANASTASIADOU (University of West Macedonia, Greece)
 Dr. Steve SHARRA (Michigan State University, USA)
 Dr. Susana Agudo Prado (Universidad de Oviedo, Spain)
 Dr. Süleyman YAMAN (Ondokuz Mayıs University, Turkey)
 Dr. Ufuk KARAKUŞ (Gazi University, Tu4key)
 Dr. Uğur DEMİRAY (Anadolu University, Turkey)
 Dr. Veronica McKay (University of South Africa, South Africa)
 Dr. Yurdal DİKMENLİ (Ahi Evran University, Kırşehir)
 Dr. Zeki KAYA (Gazi University, Turkey)
 Dr. Zsolt LAVICZA (Cambridge University, UK)

REVIEWER OF THE ISSUE

Ahmet BEDEL (Maltepe Un., Turkey)	Mehmet KOKOÇ (Trabzon Un., Turkey)
Ahmet SİMSAR (Kilis 7 Aralık Un., Turkey)	Mehmet Onur FEN (TED Un., Turkey)
Aşlıhan ERMAN ASLANOĞLU (Ufuk Un., Turkey)	Melek BABA ÖZTÜRK (Ondokuz Mayıs Un., Turkey)
Ayfer ŞAHİN (Ahi Evran Un., Turkey)	Meltem YURTÇU (İnönü Un., Turkey)
Bahadir KILCAN (Gazi Un., Turkey)	Mustafa SARITEPECİ (Necmettin Erbakan Un., Turkey)
Begüm AYTEMUR (Çanakkale 18 Mart Un., Turkey)	Mustafa TÜRKYILMAZ (Ahi Evran Un., Turkey)
Burçin GÖKKURT (Bartın Un., Turkey)	Neşe KUTLU ABU (Amasya Un., Turkey)
Bülent AKSOY (Gazi Un., Turkey)	Nisa BAŞARA BAYDILEK (Adnan Menderes Un., Turkey)
Bünyamin BAVLI (Yıldız Teknik Un., Turkey)	Oguz SERİN (Lefke Avrupa Un., KKTC)
Cem GÜZELLER (Akdeniz Un., Turkey)	Oğuzcan ÇIĞ (Gaziosmanpaşa Un., Turkey)
Cezmi Ünal (Gaziosmanpaşa Un., Turkey)	Oğuzhan KIRDÖK (Çukurova Un., Turkey)
Demet H. SOMUNCUOĞLU ÖZERBAŞ (Gazi Un., Turkey)	Okan KUZU (Ahi Evran Un., Turkey)
Derya ORHAN GÖKSÜN (Adıyaman Un., Turkey)	Oktay AKBAŞ (Kırıkkale Un., Turkey)
Didem ÇETİN (Muğla Sıtkı Koçman Un., Turkey)	Orhan KARAMUSTAFAOĞLU (Amasya Un., Turkey)
Durmuş ÜMMET (Marmara Un., Turkey)	Özge MAVİŞ SEVİM (Gaziosmanpaşa Un., Turkey)
Ebru KILIÇ ÇAKMAK (Gazi Un., Turkey)	Sayım AKTAY (Muğla Sıtkı Koçman Un., Turkey)
Ertugrul USTA (Necmettin Erbakan Un., Turkey)	Serpil PEKDOĞAN (İnönü Un., Turkey)
Fatma ALTUN (Karadeniz Teknik Un., Turkey)	Sibel OĞUZ HAÇAT (Kastamonu Un., Turkey)
Fulya YÜKSEL-SAHİN (Yıldız Teknik Un., Turkey)	Şemseddin GÜNDÜZ (Necmettin Erbakan Un., Turkey)
Gözde SEZEN-GÜLTEKİN (Sakarya Un., Turkey)	Tuğba Cevriye OZKARAL (Necmettin Erbakan Un., Turkey)
Güler KÜÇÜKTURAN (Sakarya Un., Turkey)	Tuğba Seda ÇOLAK (Düzce Un., Turkey)
H. Özlen DEMİRCAN (Orta Doğu Teknik Un., Turkey)	Tuğba SELANİK AY (Afyon Kocatepe Un., Turkey)
Hatice YILDIZ DURAK (Bartın Un., Turkey)	Tuncay CANBULAT (Dokuz Eylül Un., Turkey)
Hüseyin ANILAN (Osmangazi Un., Turkey)	Türker SEZER (Bolu Abant İzzet Baysal Un., Turkey)
Hüseyin ÇOLAK (Northeastern Illinois Un., USA)	Volkan VAROL (Sinop Un., Turkey)
İbrahim DOYUMĞAÇ (Adıyaman Un., Turkey)	Yakup Alper VARİŞ (Ondokuz Mayıs Un., Turkey)
Kemal BAYTEMİR (Amasya Un., Turkey)	Yavuz SÖKMEN (Atatürk Un., Turkey)
Leyla ERCAN (Gazi Un., Turkey)	

TABLE OF CONTENTS

A Study on The Counselors' Levels of Professional Pride And Job Satisfaction According to Certain Variables <i>Hacer Yıldırım-Kurtuluş, Fulya Yüksel-Şahin</i>	1-23
Statistical power and precision of experimental studies originated in the Republic of Turkey from 2010 to 2020: Current practices and some recommendations <i>Metin Buluş, İlhan Koyuncu</i>	24-43
Improving the Speaking Skill of Primary School Students Instructed in a Multigrade Class through Cartoons <i>Ceren Duran, Emel Güvey Aktay, Oğuzhan Kuru</i>	44-63
Views of Social Studies Teachers on Scientific Research Methodology <i>Hüseyin Bayram</i>	64-83
An Empirical Investigation of Mathematics Learning Approaches and Metacognitive Awareness of Students <i>Ahsen Seda BULUT</i>	84-102
A MOOC-based Flipped Classroom Model: Reflecting on pre-service English language teachers' experience and perceptions <i>Muhammed Özgür YAŞAR, Mustafa POLAT</i>	103-123
Social Information Processing in Preschool Children: Relations to Social Interaction <i>Fatma Betül ŞENOL, Emine METİN</i>	124-138
Structure in Distance Learning: A Systematic Literature Review <i>Bülent KANDEMİR, Ebru KILIÇ ÇAKMAK</i>	139-170
University Students' Attitudes Towards Gender Roles Predicting Their Value Orientation <i>Ömer Faruk ÇİMEN, Nergiz BULUT SERİN</i>	171-185
Learning Activities in Preschool Classrooms: Preferences of Preschool Teachers and Views of Parents <i>Ahmet Sami KONCA, Seden DEMİRTAŞ İLHAN</i>	186-197
Developing the Skills of Students with Mild Intellectual Disabilities Using Interactive Map Applications in a Social Studies Course: An Action Research <i>Ufuk KARAKUŞ, Elif İnci VARALAN</i>	198-214
Relative Effectiveness of Conceptual Change Texts with Concept Cartoons and 5E Learning Model with Simulation Activities on Pre-Service Teachers' Conceptual Understanding of Waves <i>Erdal TAŞLİDERE</i>	215-238
Examining the Differential Rater Functioning in the Process of Assessing Writing Skills of Middle School 7th Grade Students <i>Aslıhan ERMAN ASLANOĞLU, Mehmet ŞATA</i>	239-252
Investigation of Classroom Teachers' Views towards Innovative Pedagogical Practices <i>Sedef SÜER, Behçet ORAL</i>	253-273
Impact of Stem Integrated Argumentation-Based Inquiry Applications on Students ' Academic Success, Reflective Thinking and Creative Thinking Skills <i>Funda HASANÇEBİ, Ömer GÜNER, Cagla KUTRU, Mehmet HASANÇEBİ</i>	274-296



<u>Determination of The Writing Errors of Bilingual Turkish Students in France (Example of Lyon) http://dx.doi.org/10.17275/per.21.91.8.4</u> <i>Vedat Halitoğlu</i>	297-320
<u>Problems faced in distance education during Covid-19 Pandemic http://dx.doi.org/10.17275/per.21.92.8.4</u> <i>Gül Özüdoğru</i>	321-333
<u>Investigating Musical Aptitude Examination with a Many-Facet Rasch Model http://dx.doi.org/10.17275/per.21.93.8.4</u> <i>Neşe Öztürk Gübeş</i>	334-345
<u>An Analysis of Cartoons Prepared for Early Childhood Period in Terms of Child Development http://dx.doi.org/10.17275/per.21.94.8.4</u> <i>Suat Kol</i>	346-358
<u>Challenges encountered by in-service K12 teachers at the beginning of the Covid-19 pandemic period: the case of Turkey http://dx.doi.org/10.17275/per.21.95.8.4</u> <i>Nilgün Tosun, Can Mihci, Şahin Bayzan</i>	359-384
<u>Values Education Practices in Preschool: The Case of Turkey and the United States http://dx.doi.org/10.17275/per.21.96.8.4</u> <i>Emin Tamer Yenen, Perihan Ulucan</i>	385-408
<u>Temperate but not Brave Children: Character Strengths in Life Science Course Curriculum http://dx.doi.org/10.17275/per.97.51.8.4</u> <i>Ferat Yılmaz</i>	409-425
<u>Bibliometric Analysis of Articles on Computerized Adaptive Testing http://dx.doi.org/10.17275/per.21.98.8.4</u> <i>Meltem Yurtçu, Cem Güzeller</i>	426-438
<u>Do the Personality Traits of Teacher Candidates Predict the Perception of Self-Efficacy and Alienation from School? http://dx.doi.org/10.17275/per.21.99.8.4</u> <i>Tamer Sarı, Servet Atik, Osman Tayyar Çelik</i>	439-453
<u>Effect of Career Days on High School Students' Irrational Beliefs about Career Choice and on Decision Making Skills about Career http://dx.doi.org/10.17275/per.21.100.8.4</u> <i>Ahmet Kutlu, Ahmet Bedel</i>	454-467