



ATATURK
UNIVERSITY
PUBLICATIONS

Educational Academic Research

*Formerly: Atatürk University Journal of Kazım Karabekir Education Faculty
Official journal of Ataturk University Kazım Karabekir Faculty of Education*

Issue 44 • March 2022



EISSN 2822-3535
education-ataunipress.org

Educational Academic Research

Owner

Ufuk ŞİMŞEK 

Department of Social Studies Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Editors

Adnan TAŞGIN 

Department of Curriculum and Instruction, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Esra MİNDİVANLI AKDOĞAN 

Department of Social Studies Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Seda OKUMUŞ 

Department of Science Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Foreign Language Editors


Merve GEÇİKLİ 

Department of English Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Mine YILDIZ 

Department of English Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Turkish Language Editors

Mülkiye Ezgi İSKENDER 

Department of Turkish and Social Sciences Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Nurullah AYDIN 

Department of Turkish Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Editor in Chief

Ali Osman ENGİN 

Department of Curriculum and Instruction, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Editorial Board

Ahmet AYIK

Department of Education Management, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Alptürk AKÇÖLTEKİN

Department of Science Education, Çanakkale Onsekiz Mart University, Faculty of Education, Çanakkale, Turkey

Alev ÇETİN DOĞAN

Department of Science Education, Gazi University, Faculty of Education, Ankara, Turkey

Alper Cihan KONYALIOĞLU

Department of Mathematics Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Ataman KARAÇÖP

Department of Science Education, Kafkas University, Faculty of Dede Korkut Education, Kars, Turkey

Aylin MENTİŞ KÖKSOY

Department of Classroom Education, Ege University, Faculty of Education, İzmir, Turkey

Dursun DİLEK

Department of Social Studies Education, Sinop University, Faculty of Education, Sinop, Turkey

Eka Cahya PRIMA

Science Education, Indonesia University of Education, Bandung, Indonesia

Engin KURŞUN

Department of Computer and Instructional Technology Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Esther Nieto MORENO de DIEZMAS

Language Education, Castilla-La Mancha University, Ciudad Real, Spain

Halil TOKCAN

Department of Turkish and Social Sciences Education, Niğde Ömer Halisdemir University, Faculty of Education, Niğde, Turkey

Hakan AKDAĞ

Department of Turkish and Social Sciences Education, Mersin University, Faculty of Education, Mersin, Turkey

Jon-Chao HONG-

Game-Based Learning and Teaching, National Taiwan Normal University, Taiwan

José Manuel MATOS

Mathematics Education, Universidade Nova De Lisboa, Spain

Kubilay YAZICI

Department of Social Studies Education, Niğde Ömer Halisdemir University, Faculty of Education, Niğde, Turkey

Mehmet BAŞTÜRK

Department of Foreign Language Education, Balıkesir University, Necatibey Faculty of Education, Balıkesir, Turkey



Founder

İbrahim KARA

General Manager

Ali ŞAHİN

Publishing Director

Gökhan ÇİMEN

Editor

Hira Gizem FİDAN

Publications Coordinators

Defne DOĞAN

Vuslat TAŞ

Web Coordinator

Doğan ORUÇ

Finance Coordinator

Osman YALÇIN

Contact

Publisher: Atatürk University
Address: Atatürk University, Yakutiye,
Erzurum, Turkey

Publishing Service: AVES

Address: Büyükdere Cad., 105/9 34394 Şişli,
İstanbul, Turkey

Phone: +90 212 217 17 00

E-mail: info@avesyayincilik.com

Webpage: www.avesyayincilik.com

Educational Academic Research

Mehmet Nuri GÖMLEKSİZ

Department of Education Science, Fırat University, Faculty of Education, Elazığ, Turkey

Murat ÇALIŞOĞLU

Department of Social Science, Ağrı İbrahim Çeçen University, Faculty of Education, Ağrı, Turkey

Mustafa SÖZBİLİR

Department of Mathematics and Science Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Nilüfer OKUR AKÇAY

Department of Preschool Education, Ağrı İbrahim Çeçen University, Faculty of Education, Ağrı, Turkey

Oğuz DİLMAÇ

Department of Basic Art Education, İzmir Katip Çelebi University, Faculty of Art and Design, İzmir, Turkey

Osman SAMANCI

Department of Classroom Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Ovidiu Florin CALTUN

Faculty of Physics, Alexandru Ioan Cuza University, Romania

Raşit ZENGİN

Department of Mathematics and Science Education, Fırat University, Faculty of Education, Elazığ, Turkey

Ramesh SHARMA

Ambedkar University, Delhi, India

Robert ECKHART

Department of English, Ohio State University, Ohio, USA

Salih DOĞAN

Department of Biology, Erzincan Binali Yıldırım University, Faculty of Science Literature, Erzincan, Turkey

Selahattin KAYMAKÇI

Department of Turkish and Social Sciences Education, Kastamonu University, Faculty of Education, Kastamonu, Turkey

Selçuk KARAMAN

Department of Management Information Systems, Hacı Bayram Veli University, Faculty of Economics and Administrative Sciences, Ankara, Turkey

Stefan RATHERT -

Department of English Language Education, Kahramanmaraş Sütçü İmam University, Faculty of Education, Kahramanmaraş, Turkey

Şükrü ADA

Department of Education Management, Bursa Uludağ University, Faculty of Education, Bursa, Turkey

Ümit ŞİMŞEK

Department of Science Education, Atatürk University, Faculty of Kazım Karabekir Education, Erzurum, Turkey

Yasin DOĞAN

Department of Turkish and Social Sciences Education, Pamukkale University, Faculty of Education, Denizli, Turkey

Zehra ÖZDİLEK

Department of Mathematics and Science Education, Bursa Uludağ University, Faculty of Education, Bursa, Turkey

Zoe MARLOWE

Department of Foreign Language Education, Biruni University, Faculty of Education, İstanbul, Turkey

Reviewers of 44'th Issue

Bayram TAY

Kırşehir Ahi Evran University

Canan NAKİBOĞLU

Balıkesir University

Fatma ŞAHİN

Marmara University

Haluk ÖZMEN

Trabzon University

İsa KORKMAZ

Necmettin Erbakan University

Kemal YÜRÜMEZOĞLU

Dokuz Eylül University

Mehmet KARAKAŞ

Artvin Çoruh University

Mustafa ÇELEBİ

Erciyes University

Süleyman Sadi SEFEROĞLU

Hacettepe University

Adem PEKER

Atatürk University

Ahmet AYIK

Atatürk University

Ahmet KURNAZ

Necmettin Erbakan University

Başak Ümit BOZKURT

Bolu Abant İzzet Baysal University

Eda DEMİRHAN

Sakarya University

Gökhan ARASTAMAN

Hacettepe University

Gökhan UYANIK

Kastamonu University

Mukaddes Sakallı DEMİROK

Yakın Doğu University

Necdet AYKAÇ

Muğla Sıtkı Koçman University

Oktay YAĞIZ

Atatürk University

Pınar ŞAFAK

Gazi University

Salih AKYILDIZ

Trabzon University

Seydi Ahmet SATICI

Artvin Çoruh University

Turgay ŞİRİN

İstanbul Sabahattin Zaim University

Vural TÜNKLER

Süleyman Demirel University

Yener ÖZEN

Erzincan Binali Yıldırım University

Zeki AKSU

Artvin Çoruh University

Adem YILMAZ

Kastamonu University

Didem GÜVEN

İstanbul Sabahattin Zaim University

Mehmet Buğra ÖZHAN

Atatürk University

Educational Academic Research

Muhammed Said AKAR
Erzincan Binali Yildirim University

Onur BİROL
Burdur Mehmet Akif Ersoy University

Özge GÜN
Bartın University

Sezai DEMİR
Hatay Mustafa Kemal University

Aysun Yeşilyurt ÇETİN
Atatürk University

Nurullah AYDIN
Atatürk University

Tahir TAĞA
Süleyman Demirel University

Gülbeyaz ÜNLÜER
Ministry of Education
NOTE: This list includes the referees of the
articles accepted for publication in this issue and
those that were not accepted for publication from
the previous issue until this issue.

Educational Academic Research

AIMS AND SCOPE

Educational Academic Research is a scientific, open access periodical published in accordance with independent, unbiased, and double-blinded peer-review principles.

Educational Academic Research started its publication life in 2003. The journal is the official online-only publication of Atatürk University Kazım Karabekir Faculty of Education and published quarterly in March, June, September and December. The journal is published in Turkish and English.

Educational Academic Research is a peer-reviewed and online-only journal published by Atatürk University Kazım Karabekir Education Faculty.

The journal publishes qualitative and quantitative research articles, especially meta-analysis and meta-synthesis studies, on education and teaching, reviews and theoretical studies related to contemporary literature on education. The primary purpose of the journal is to share the scientific information produced in the field of education on a broad platform. In this respect, the journal aims to bring together researchers, education practitioners, and politicians of education at a common point. The journal focuses on research that will lead to the solution of educational problems, the quality of education in education and the production of new information. Studies conducted with teacher candidates are not accepted in the journal.

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal conforms with the Principles of Transparency and Best Practice in Scholarly Publishing (doaj.org/bestpractice).

Educational Academic Research is currently indexed in TUBITAK ULAKBIM TR Index.

All expenses of the journal are covered by the Atatürk University Kazım Karabekir Education Faculty. Processing and publication are free of charge with the journal. No fees are requested from the authors at any point throughout the evaluation and publication process. All manuscripts must be submitted via the online submission system, which is available at <https://education-ataunipress.org/>. The journal guidelines, technical information, and the required forms are available on the journal's web page.

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the Atatürk University Kazım Karabekir Education Faculty, editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

Educational Academic Research is an open access publication and the journal's publication model is based on Budapest Open Access Initiative (BOAI) declaration. Journal's archive is available online, free of charge at <https://education-ataunipress.org/>. Educational Academic Research's content is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License.

You can find the current version of the Instructions to Authors at <https://education-ataunipress.org/>.

Editor: Ali Osman ENGİN

Address: Atatürk University, Kâzım Karabekir Education Faculty, Erzurum, Turkey

Phone: +90 442 231 35 50

E-mail: aliosman.engin@atauni.edu.tr

Publisher: Atatürk University

Address: Atatürk University, Yakutiye, Erzurum, Turkey

Publishing Service: AVES

Address: Büyükdere Cad., 105/9 34394 Şişli, İstanbul, Turkey

Phone: +90 212 217 17 00

E-mail: info@avesyayincilik.com

Webpage: www.avesyayincilik.com

Educational Academic Research

AMAÇ VE KAPSAM

Educational Academic Research bağımsız, tarafsız ve çift kör hakemlik ilkelerine uygun olarak yayınlanan bilimsel, açık erişimli bir süreli yayındır.

Educational Academic Research 2003 yılında yayın hayatına başlamıştır. Dergi, Atatürk Üniversitesi Kâzım Karabekir Eğitim Fakültesi'nin sadece internet üzerinden yayınlanan resmi yayınıdır ve Mart, Haziran, Eylül ve Aralık aylarında üç ayda bir yayınlanır. Dergi Türkçe ve İngilizce olarak yayınlanmaktadır.

Dergi, eğitim ve öğretimle ilgili başta meta-analiz ve meta-sentez çalışmaları olmak üzere nitel ve nicel araştırma makaleleri, derlemeler ve çağdaş eğitim literatürü ile ilgili kuramsal çalışmalar yayınlar. Derginin temel amacı, eğitim alanında üretilen bilimsel bilgileri geniş bir platformda paylaşmaktır. Bu doğrultuda dergi, araştırmacıları, eğitim uygulayıcılarını ve eğitim politikacılarını ortak bir noktada buluşturmayı amaçlamaktadır. Dergi, eğitim sorunlarının çözümüne, eğitimde eğitimin kalitesine ve yeni bilgilerin üretilmesine yol açacak araştırmalara odaklanmaktadır. Dergiye öğretmen adayları ile yapılan çalışmalar kabul edilmemektedir.

Derginin editöryel ve yayın süreçleri Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE) ve National Information Standards Organization (NISO) kılavuzlarına uygun olarak biçimlendirilmiştir. Educational Academic Research' ün editöryel ve yayın süreçleri, Akademik Yayıncılıkta Şeffaflık ve En İyi Uygulama (doaj.org/bestpractice) ilkelerine uygun olarak yürütülmektedir.

Educational Academic Research, TÜBİTAK ULAKBİM TR Dizin tarafından indekslenmektedir.

Derginin tüm masrafları Atatürk Üniversitesi Kazım Karabekir Eğitim Fakültesi tarafından karşılanmaktadır. Makale değerlendirme ve yayın işlemleri için yazarlardan ücret talep edilmemektedir. Tüm makaleler <https://education-ataunipress.org/> sayfasındaki online makale değerlendirme sistemi kullanılarak dergiye gönderilmelidir. Derginin yazım kurallarına, gerekli formlara ve dergiyle ilgili diğer bilgilere web sayfasından erişilebilir.

Dergide yayınlanan makalelerde ifade edilen bilgi, fikir ve görüşler Atatürk Üniversitesi Kazım Karabekir Eğitim Fakültesi, Baş Editör, Editörler, Yayın Kurulu ve Yayıncı'nın değil, yazar(lar)ın bilgi ve görüşlerini yansıtır. Baş Editör, Editörler, Yayın Kurulu ve Yayıncı, bu gibi yazarlara ait bilgi ve görüşler için hiçbir sorumluluk ya da yükümlülük kabul etmemektedir.

Educational Academic Research yayınlanma modeli Budapeşte Açık Erişim Girişimi (BOAI) bildirgesine dayanan açık erişimli bilimsel bir dergidir. Derginin arşivine <https://education-ataunipress.org/> adresinden ücretsiz olarak erişilebilir. Educational Academic Research'in içeriği, Creative Commons Atıf-GayriTicari 4.0 (CC BY-NC) Uluslararası Lisansı ile yayınlanmaktadır.

Yazarlara Bilgi'nin güncel versiyonuna <https://education-ataunipress.org/> adresinden ulaşabilirsiniz.

Editör: Ali Osman ENGİN

Adres: Atatürk Üniversitesi Kazım Karabekir Eğitim Fakültesi, Erzurum, Türkiye

Tel: +90 442 231 35 50

E-posta: aliosman.engin@atauni.edu.tr

Yayıncı: Atatürk Üniversitesi

Adres: Atatürk Üniversitesi, Yakutiye, Erzurum, Türkiye

Yayınevi: AVES

Adres: Büyükdere Cad., 105/9 34394 Şişli, İstanbul, Türkiye

Tel: +90 212 217 17 00

E-posta: info@avesyayincilik.com

Web: www.avesyayincilik.com

İÇİNDEKİLER / CONTENTS

ARAŞTIRMA MAKALELERİ / RESEARCH ARTICLES

- 1 ÖTBB ve Oyu Yöntemlerinin 8. Sınıf "Maddenin Halleri ve Isı" Ünitesi Akademik Başarısı Üzerine Etkisi
The Effect of Stad and RWA Methods on Academic Achievement of the 8th Grade "States of Matter and Heat" Unit
Yasemin KOÇ GÖZÜBENLİ, Ümit ŞİMŞEK
- 11 TÜBİTAK 4004 Fen Projelerine Yönelik Tematik İçerik Analizi
Thematic Content Analysis for TUBITAK 4004 Science Projects
Ayberk BOSTAN SARIOĞLAN, Gamze DOLU, Nebahat SEVİM
- 20 Pedagojik Formasyon Sertifika Programına Katılan Öğrencilerin Öğretmenlik Mesleğine Yönelik Tutumlarına İlişkin Makalelerin İncelenmesi
A Review of Articles on the Attitudes of Students Participating in the Pedagogical Formation Certificate Program Toward Teaching Profession
Dürdane LAFCI TOR, Esra Hatun SERT
- 31 Faculty Members' Digital Footprint Experiences and Digital Footprint Awareness
Öğretim Üyelerinin Dijital Ayak İzi Yaşamları ve Dijital Ayak İzi Farkındalıkları
Songül KARABATAK, Müslim ALANOĞLU
- 42 Fink'in Anlamlı Öğrenme Yaklaşımı ve Hayat Bilgisi Dersi Öğretim Programı Kazanımlarının Fink Taksonomisine Göre Sınıflandırılması
Fink's Significant Learning Approach and Classification of the Life Science Curriculum Acquisitions According to Fink Taxonomy
Saadet Aylin YAĞAN
- 54 Öğretmen, Rehber Öğretmeni ve Okul Yöneticilerinin Kaynaştırma Uygulamalarının Başarısını Etkileyen Etmenleri Değerlendirmesi
Perceptions of Teachers, School Counselors and School Administrations' Perceptions of Factors Effecting Success of Inclusive Practices
Yakup BURAK, Emine AHMETOĞLU
- 66 Psikolojik Danışmanların Çokkültürlü Psikolojik Danışma Yeterlikleri, Sosyal Adalet ve Eşcinsellik Tutumları
Counselors' Multicultural Counseling Competencies, Social Justice, and Homosexuality Attitudes
Cafer KILIÇ, Zahide TONGA, Feridun KAYA
- 77 Sorumluluk Değeri Etkinliklerinin İlkokul 4. Sınıf Öğrencilerinin Sorumluluk Kazanım Düzeylerine Etkisi
The Effect of Responsibility Value Based Activities on 4th Graders' Responsibility Acquisition Levels
İhsan ONAY, Yaşar ÇELİK
- 90 Benzerlikler ve Farklılıklar Stratejisinin Öğrenci Başarısı Üzerinde Etkililiğinin İncelenmesi
Analysis of the Effectiveness of the Similarities and Differences Strategy Upon Students' Achievement
Cevahir DUMAN, Erdal BAY
- 100 Sınıf Hata İklimi Ölçeğinin Türkçeye Uyarlama Çalışması
The Adaptation of the Perceived Error Climate Scale Into Turkish
Senem KALAÇ, Merve ÖZKAYA, Alper Cihan KONYALIOĞLU