

e-ISSN: 2148-7456

a peer-reviewed  
online journal

hosted by **DergiPark**

# International Journal of Assessment Tools in Education

**Volume: 10**

**Issue: 3**

**September 2023**

<https://dergipark.org.tr/en/pub/ijate>  
<https://ijate.net/index.php/ijate>

<b>Editor</b>	Dr. Ömer KUTLU
<b>Address</b>	Ankara University, Faculty of Educational Sciences, Cebeci Yerleşkesi, Çankaya, Ankara, Türkiye
<b>E-mail</b>	<a href="mailto:ijate.editor@gmail.com">ijate.editor@gmail.com</a> <a href="mailto:omerkutlu@ankara.edu.tr">omerkutlu@ankara.edu.tr</a>
<b>Publisher</b>	Dr. İzzet KARA
<b>Address</b>	Pamukkale University, Education Faculty, Kinikli Campus, 20070 Denizli, Türkiye
<b>Phone</b>	+90 258 296 1036
<b>Fax</b>	+90 258 296 1200
<b>E-mail</b>	<a href="mailto:ikara@pau.edu.tr">ikara@pau.edu.tr</a> <a href="mailto:ijate.editor@gmail.com">ijate.editor@gmail.com</a>
<b>Journal Contact</b>	Dr. Eren Can AYBEK
<b>Address</b>	Department of Educational Sciences, Pamukkale University, Faculty of Education, Kinikli Yerleşkesi, Denizli, 20070, Türkiye
<b>Phone</b>	+90 258 296 31050
<b>Fax</b>	+90 258 296 1200
<b>E-mail</b>	<a href="mailto:erecanaybek@gmail.com">erecanaybek@gmail.com</a>
<b>Frequency</b>	4 issues per year (March, June, September, December)
<b>Online ISSN</b>	2148-7456
<b>Website</b>	<a href="https://dergipark.org.tr/en/pub/ijate">https://dergipark.org.tr/en/pub/ijate</a> <a href="https://ijate.net/index.php/ijate">https://ijate.net/index.php/ijate</a>
<b>Cover Design</b>	Merve SENTURK

International Journal of Assessment Tools in Education (IJATE) is a peer-reviewed and academic online journal. The scientific and legal responsibility for manuscripts published in our journal belongs to the authors(s).



## International Journal of Assessment Tools in Education

*International Journal of Assessment Tools in Education* (IJATE) accepts original research on the design, analysis and use of evaluation along with assessment to enhance comprehension of the performance and quality of stakeholders in educational settings. IJATE is pleased to receive discriminating theoretical and empirical manuscripts (quantitative or qualitative) which could direct significant national and international argumentations in educational policy and practice.

IJATE, as an online journal, is hosted by DergiPark [TUBITAK-ULAKBIM (The Scientific and Technological Research Council of Türkiye)].

In IJATE, there are no charges under any procedure for submitting or publishing an article.

### Indexes and Platforms:

- Emerging Sources Citation Index (ESCI)
- Education Resources Information Center (ERIC)
- TR Index (ULAKBIM),
- EBSCOhost,
- SOBIAD,
- JournalTOCs,
- MIAR (Information Matrix for Analysis of the Journals),
- idealonline,
- CrossRef,
- ResearchBib,
- Index Copernicus International

**Editor**

Dr. Omer KUTLU, *Ankara University, Türkiye*

**Section Editors**

Dr. Safiye BILICAN DEMIR, *Kocaeli University, Türkiye*

Dr. Selma SENEL, *Balikesir University, Türkiye*

Dr. Esin YILMAZ KOGAR, *Nigde Omer Halisdemir University, Türkiye*

Dr. Sumeyra SOYSAL, *Necmettin Erbakan University, Türkiye*

**Editorial Board**

Dr. Beyza AKSU DUNYA, *Bartın University, Türkiye*

Dr. Stanislav AVSEC, *University of Ljubljana, Slovenia*

Dr. Kelly D. BRADLEY, *University of Kentucky, United States*

Dr. Okan BULUT, *University of Alberta, Canada*

Dr. Javier Fombon CADAVIECO, *University of Oviedo, Spain*

Dr. Seockhoon CHUNG, *University of Ulsan, Korea*

Dr. R. Nukhet CIKRIKCI, *İstanbul Aydın University, Türkiye*

Dr. William W. COBERN, *Western Michigan University, United States*

Dr. Nuri DOGAN, *Hacettepe University, Türkiye*

Dr. Selahattin GELBAL, *Hacettepe University, Türkiye*

Dr. Anne Corinne HUGGINS-MANLEY, *University of Florida, United States*

Dr. Francisco Andres JIMENEZ, *Shadow Health, Inc., United States*

Dr. Nicole KAMINSKI-OZTURK, *The University of Illinois at Chicago, United States*

Dr. Tugba KARADAVUT, *Izmir Democracy University, Türkiye*

Dr. Orhan KARAMUSTAFAOGLU, *Amasya University, Türkiye*

Dr. Yasemin KAYA, *Atatürk University, Türkiye*

Dr. Hulya KELECIOGLU, *Hacettepe University, Türkiye*

Dr. Hakan KOGAR, *Akdeniz University, Türkiye*

Dr. Seongyong LEE, *BNU-HKBU United International College, China*

Dr. Sunbok LEE, *University of Houston, United States*

Dr. Froilan D. MOBO, *Ama University, Philippines*

Dr. Hamzeh MORADI, *Sun Yat-sen University, China*

Dr. Nesrin OZTURK, *Izmir Democracy University, Türkiye*

Dr. Turan PAKER, *Pamukkale University, Türkiye*

Dr. Murat Dogan SAHIN, *Anadolu University, Türkiye*

Dr. Hossein SALARIAN, *University of Tehran, Iran*

Dr. Halil İbrahim SARI, *Kilis 7 Aralik University, Türkiye*

Dr. Ragıp TERZI, *Harran University, Türkiye*

Dr. Turgut TURKDOGAN, *Pamukkale University, Türkiye*

Dr. Ozen YILDIRIM, *Pamukkale University, Türkiye*

**English Language Editors**

Dr. R. Sahin ARSLAN, *Pamukkale University, Türkiye*

Dr. Hatice ALTUN, *Pamukkale University, Türkiye*

Ahmet KUTUK, *Akdeniz University, Türkiye*

**Editorial Assistants**

Dr. Asiye BAHTIYAR, *Pamukkale University, Türkiye*

Dr. Ebru BALTA, *Agri Ibrahim Cecen University, Türkiye*

Dr. Neslihan Tugce OZYETER, *Kocaeli University, Türkiye*

PhDc. Ibrahim Hakki TEZCI, *Akdeniz University, Türkiye*

**Technical Assistant**

Dr. Eren Can AYBEK, *Pamukkale University, Türkiye*

## CONTENTS

### Research Articles

Deconstructing Learner Engagement: An Expanded Construct Model for Higher Education Learners

**Page: 395-412** [PDF](#)

Meral ŞEKER

Examining the Factors Affecting Students' Science Success with Bayesian Networks

**Page: 413-433** [PDF](#)

Hasan Aykut KARABOĞA, İbrahim DEMİR

Investigating the sources of differential item functioning: A sample critical thinking motivation scale

**Page: 434-453** [PDF](#)

Fatma Betül KURNAZ, Hüseyin YILDIZ

The effect of student characteristics and socioeconomic status on mathematics achievement in Türkiye: Insights from TIMSS 2011-2019

**Page: 454-481** [PDF](#)

Burçin COŞKUN, Kübra KARAKAYA ÖZYER

Adaptation of compulsive sport consumption scale into Turkish culture: CSCS-T

**Page: 482-495** [PDF](#)

Murat AYGÜN, Sait ÇÜM

A bibliometric journey into research trends in curriculum field: Analysis of two journals

**Page: 496-506** [PDF](#)

Suat KAYA

Effects of gender and marital status on the perception of paternalistic leadership: A meta-analysis study

**Page: 507-531** [PDF](#)

Mehmet Sabir ÇEVİK

The validity and reliability of the Juvenile Arthritis Functional Assessment Report (JAFAR) in children/adolescents with Juvenile Idiopathic Arthritis: The Turkish version study

**Page: 532-543** [PDF](#)

Merve BALI, Elif GUR KABUL, Bilge BAŞAKÇI ÇALIK, Gülçin OTAR YENER, Zahide EKİCİ TEKİN, Selcuk YUKSEL

A comparative study of ensemble methods in the field of education: Bagging and Boosting algorithms

**Page: 544-562** [PDF](#)

Hikmet ŞEVGİN

The impact of peer feedback on collaborative problem-solving skills in the online environment

**Page: 563-579** [PDF](#)

Yeşim KARADAĞ, Seher YALÇIN

---

Application of the professional maturity scale as a computerized adaptive testing

**Page: 580-593** [PDF](#)

Süleyman DEMİR, Derya ÇOBANOĞLU AKTAN, Neşe GÜLER

---

The mediating role of academic self-efficacy between the answer-copying tendency and the fear of negative evaluation

**Page: 594-612** [PDF](#)

Müge ULUMAN, Emine Burcu PEHLİVAN

---

The Contemporary Leadership Behavior of School Principals Scale according to teacher's perceptions: Validity and reliability study

**Page: 613-637** [PDF](#)

İbrahim GÜL, Selda ÖRS ÖZDİL

---