

## **Prof. MEHMET FATİH TAŞAR**

### **Personal Information**

**Office Phone:** [+90 312 202 1768](tel:+903122021768)

**Email:** mftasar@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/mftasar>

### **International Researcher IDs**

ScholarID: yOdcVNgAAAAJ

ORCID: 0000-0003-1249-3482

Publons / Web Of Science ResearcherID: R-5584-2019

ScopusID: 13410804800

Yoksis Researcher ID: 2810

### **Education Information**

Doctorate, Pennsylvania State University University College Park Campus, Curriculum Instruction, United States Of America 1996 - 2001

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1994 - 1996

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1987 - 1994

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, A case study of a novice college student's alternative framework and learning of force and motion, Pennsylvania State University University College Park Campus, Curriculum Instruction, 2001

Postgraduate, Yüksek sıcaklık süperiletkenlerinin özelliklerinin ve teorilerinin incelenmesi, Erciyes University, Kamu Yönetimi, Fizik (YI) (Tezli), 1950

### **Research Areas**

Psychological Foundations of Education, Test and Measurement in Education, Curriculum Development, Educational Technology, Educational Administration and Curriculum Development, Curriculum Development and Teaching Methods, Teacher Training in Natural Sciences, Teacher Training in Science and Math. at Primary Sch. Level, Education in Physics, Teacher Training, Teacher Training in Science and Math. at Second. Sch. Lev.

### **Academic Titles / Tasks**

Professor, Gazi University, Gazi Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2012 - Continues

Associate Professor, Gazi University, Gazi Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2006 - 2012

Assistant Professor, Gazi University, Gazi Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi, 2005 - 2006

## Advising Theses

- TAŞAR M. F., Examining Prospective Science Teachers' Development Of Technological Pedagogical Content Knowledge In A Transformative Learning Environment, Doctorate, D.YILMAZ(Student), 2020
- TAŞAR M. F., Investigation Of Science Teachers' Individual Innovativeness Level, Lifelong Learning Tendencies And Stem Applications Self-Efficacy Perceptions And Their Relationships, Postgraduate, R.YÜKSEL(Student), 2020
- TAŞAR M. F., Students' Development Of Motivation And Perception Towards Career Awareness In A Science Course: A Self-Study, Postgraduate, N.ERDOĞDU(Student), 2019
- TAŞAR M. F., Secondary School Students' Misconceptions About Sink-Float, Postgraduate, E.SOYYİĞİT(Student), 2019
- Taşar M. F., The Design, Implementation, And Evaluation Of A Stem Education Course For Prerservice Science Teachers , Doctorate, K.GÜL(Student), 2019
- TAŞAR M. F., Ben nasıl bir öğretmenim? öğrencilerimin fen-teknoloji-mühendislik-matematik (STEM) kariyer gelişimi üzerine öz-incelemem, Doctorate, İ.DÖNMEZ(Student), 2018
- TAŞAR M. F., What Kind of a Teacher Am I? My Self-Study on my Students' Science-Technology-Engineering-Mathematics (STEM) Career Development, Doctorate, İ.Dönmez(Student), 2018
- TAŞAR M. F., Bilim sözde-bilim ayrimı bağlamında tasarlanan argümantasyon temelli etkinliklerin, 8. sınıf öğrencilerinin bilimin doğası görüşlerine, sözde-bilimsel inançlarına ve argümantasyon becerilerine etkisi, Doctorate, E.ÇETINKAYA(Student), 2017
- TAŞAR M. F., Physics Teachers' Animation & Simulation-TPACK Levels on Force and Motion: In-Class Holistic Multiple Case Study, Doctorate, M.LÜTFİYE(Student), 2017
- TAŞAR M. F., A Self-Study Of The Use Of Interactive Historical Vignettes Enhanced With Concept Cartoons In Teaching Of The Nature Of Science, Doctorate, M.YÜCEL(Student), 2015
- TAŞAR M. F., Relations of characteristics of science teachers and students with the student achievement in science: A case analysis according to TIMSS 2011 data, Doctorate, İ.ABAZAOĞLU(Student), 2014
- TAŞAR M. F., Determining technological pedagogical content knowledge: Multiple case study, Postgraduate, D.YILMAZ(Student), 2014
- TAŞAR M. F., 4th and 5th grade students' argument structure, Doctorate, D.ŞAHİN(Student), 2014
- TAŞAR M. F., Pre-service teachers' use of multiple representations in science teaching: An action research, Postgraduate, J.ERCAN(Student), 2014
- TAŞAR M. F., Using hypermedia for developing pre-service science teachers' understandings of the nature of science: Examining the role of self regulation, Doctorate, N.İMER(Student), 2013
- TAŞAR M. F., Fen bilgisi öğretmen adaylarının fen içeriği ile ilişkilendirilmiş bilimin doğası konusundaki pedagojik alan bilgilerinin gelişimi, Doctorate, H.ÖZCAN(Student), 2013
- TAŞAR M. F., Prospective science teachers views about how plants gain their dry mass and how the mass leaves human body during weight loss, Postgraduate, Z.MERVE(Student), 2013
- TAŞAR M. F., Fen bilgisi öğretmen adaylarının kuvvet ve hareket konusundaki teknolojik pedagojik alan bilgilerinin gelişimi, Doctorate, B.TİMUR(Student), 2011
- TAŞAR M. F., Assessing views about the nature of science by vignettes: The case of prospective science teachers, Doctorate, M.POLAT(Student), 2011
- TAŞAR M. F., Geniş etkili güncel olayların öğretmen adaylarının bilimin doğası hakkındaki görüşlerine etkisi, Postgraduate, S.ARIK(Student), 2010
- TAŞAR M. F., THE EFFECT OF CURRENTLY HAPPENING EVENTS WITH BROAD IMPACT ON PROSPECTIVE SCIENCE TEACHERS' VIEWS ABOUT THE NATURE OF SCIENCE, Postgraduate, S.ARIK(Student), 2010
- TAŞAR M. F., İLKÖĞRETİM FEN VE TEKNOLOJİ ÖĞRETMENLERİNİN ÇOKLU ZEKÂ KURAMININ UYGULANMASINA YÖNELİK GÖRÜŞLERİ, Postgraduate, A.ÜNAL(Student), 2009
- TAŞAR M. F., Fen ve teknoloji öğretmenlerinin bilimin doğası hakkındaki görüşleri ve bu görüşlerin sınıf uygulamalarına yansımaları, Doctorate, O.ASLAN(Student), 2009
- TAŞAR M. F., İlköğretim fen ve teknoloji öğretmenlerinin çoklu zeka kuramının uygulanmasına yönelik görüşleri,

Postgraduate, A.ÜNAL(Student), 2009

TAŞAR M. F., THE INFLUENCE OF INTERACTIVE HISTORICAL VIGNETTES ON DEVELOPING UPPER PRIMARY STUDENTS'

UNDERSTANDINGS OF THE NATURE OF SCIENCE, Postgraduate, M.YÜCEL(Student), 2009

TAŞAR M. F., TEKNOLOJİNİN DOĞASINA YÖNELİK FEN BİLGİSİ ÖĞRETMEN ADAYLARININ GÖRÜŞLERİNİN VE

KAVRAMLARININ GELİŞİMİ VE ÖĞRETİMDE İKİLEMLERİN ETKİLİLİĞİ, Doctorate, F.AYDIN(Student), 2009

TAŞAR M. F., Teknolojinin doğasına yönelik fen bilgisi öğretmen adaylarının görüşlerinin ve kavramlarının gelişimi ve öğretimde ikilemlerin etkililiği, Doctorate, F.AYDIN(Student), 2009

TAŞAR M. F., Etkileşimli kısa tarihsel hikâyelerin kullanımının ilköğretim ikinci kademe öğrencilerinin bilimin doğasına yönelik anlayışlarını geliştirmesindeki etkililiği, Postgraduate, M.YÜCEL(Student), 2009

TAŞAR M. F., TEACHING METHODS FOLLOWED BY SCIENCE TEACHERS AND OPINIONS OF STUDENTS ABOUT HOW THESE METHODS ARE USED, Postgraduate, A.SOLMAZ(Student), 2007

TAŞAR M. F., Determining teachers' views about science and technology education, used student evaluation and assessment methods and their importance in the educational processes, Postgraduate, F.CANDUR(Student), 2007

### **Published journal articles indexed by SCI, SSCI, and AHCI**

#### **I. How do Science Teachers View and Teach the Nature of Science? A Classroom Investigation**

ASLAN O., TAŞAR M. F.

EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.38, no.167, pp.65-80, 2013 (SSCI)

#### **II. An Interview with David Hestenes: His life and achievements**

Taşar M. F., Bilici S., Fettahlioglu P.

EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.8, no.2, pp.139-153, 2012 (SSCI)

#### **III. What part of the concept of acceleration is difficult to understand: The mathematics, the physics, or both?**

TAŞAR M. F.

ZDM - International Journal on Mathematics Education, vol.42, no.5, pp.469-482, 2010 (SCI-Expanded)

#### **IV. A CROSS-NATIONAL STUDY OF CZECH AND TURKISH UNIVERSITY STUDENTS' ATTITUDES TOWARDS ICT USED IN SCIENCE SUBJECTS**

Kubiatko M., Usak M., YILMAZ K., TAŞAR M. F.

JOURNAL OF BALTIC SCIENCE EDUCATION, vol.9, no.2, pp.119-134, 2010 (SSCI)

#### **V. Editorial**

TAŞAR M. F.

Eurasia Journal of Mathematics, Science and Technology Education, vol.6, no.1, pp.1, 2010 (SSCI)

#### **VI. STUDENTS' CONCEPTUAL DIFFICULTIES IN QUANTUM MECHANICS: POTENTIAL WELL PROBLEMS**

ÖZCAN Ö., Didis N., TAŞAR M. F.

HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGİSİ-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, no.36, pp.169-180, 2009 (SSCI)

#### **VII. Editorial**

TAŞAR M. F.

Eurasia Journal of Mathematics, Science and Technology Education, vol.4, no.4, pp.317, 2008 (SCI-Expanded)

#### **VIII. In memoriam David Ausubel (1918-2008)**

TAŞAR M. F.

Eurasia Journal of Mathematics, Science and Technology Education, vol.4, no.3, pp.195, 2008 (SCI-Expanded)

#### **IX. Reflection and remarks on the conversation "The past, present and future of the nature of science research" with Norman Lederman**

TAŞAR M. F.

Eurasia Journal of Mathematics, Science and Technology Education, vol.3, no.4, pp.383-386, 2007 (SCI-Expanded)

#### **X. Editorial**

TAŞAR M. F.

- Eurasia Journal of Mathematics, Science and Technology Education, vol.3, no.3, pp.171, 2007 (SSCI)
- XI. **Probing preservice teachers' understandings of scientific knowledge by using a vignette in conjunction with a paper and pencil test**  
TAŞAR M. F.  
Eurasia Journal of Mathematics, Science and Technology Education, vol.2, no.1, pp.53-70, 2006 (SCI-Expanded)
- XII. **An integration of simple materials and complex ideas: Description of an instructional sequence in statics**  
Taylor J., Dana T., TAŞAR M. F.  
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.17, no.3, pp.267-275, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Scaffolding prompt questions and learners' self-regulated learning about the nature of science in hypermedia**  
Taşar M. F., Çetin N. İ.  
International Journal of Curriculum and Instruction, vol.13, no.2, pp.1802-1824, 2021 (Peer-Reviewed Journal)
- II. **A Systematic Review of Creative Self-Efficacy Literature in Education**  
Unal A., TAŞAR M. F.  
Eurasia Journal of Mathematics, Science and Technology Education, vol.17, no.12, 2021 (Scopus)
- III. **Prospective Science Teachers' Views on Career Planning and their Self-efficacy Levels for Career Decision-Making**  
İnce Aka E., Taşar M. F.  
INTERNATIONAL ONLINE JOURNAL OF EDUCATION AND TEACHING, vol.7, no.3, pp.960-975, 2020 (Peer-Reviewed Journal)
- IV. **Editorial: STEM Education: "What's in a Name?"**  
Taşar M. F.  
Hellenic Journal of STEM Education, vol.1, no.1, pp.1-4, 2020 (Peer-Reviewed Journal)
- V. **DÖRDÜNCÜ VE BEŞİNCİ SINIF ÖĞRENCİLERİİNİN ARGÜMAN YAPILARI**  
Şahin Kalyon D., Taşar M. F.  
Avrasya Uluslararası Araştırmalar Dergisi, vol.8, no.22, pp.39-71, 2020 (Peer-Reviewed Journal)
- VI. **Açık-Düşündürücü Öğretim Deneyimi Sonrası Fen Bilimleri Öğretmen Adaylarının Bilimi Anlama Düzeyleri: Hermenöтик Bakış**  
ÖZCAN H., SARITAŞ D., TAŞAR M. F.  
Bayburt Eğitim Fakültesi Dergisi, vol.15, no.29, pp.223-250, 2020 (Peer-Reviewed Journal)
- VII. **Açık-Düşündürücü Öğretim Deneyimi Sonrası Fen Bilimleri Öğretmen Adaylarının Bilimi Anlama Düzeyleri: Hermenöтика Bakış**  
ÖZCAN H., SARITAŞ D., TAŞAR M. F.  
Bayburt Eğitim Fakültesi Dergisi, vol.15, no.29, pp.223-250, 2020 (Peer-Reviewed Journal)
- VIII. **Eighth Grade Students' Knowledge of Key Biotechnology Concepts**  
ATASOY B., ATICI T., TAŞAR M. F., TAFLI T.  
Hellenic Journal Stem Education, vol.1, no.1, pp.33-42, 2020 (Peer-Reviewed Journal)
- IX. **A review of researches on stem in preservice teacher education**  
Gül K. S., TAŞAR M. F.  
Elementary Education Online, vol.19, no.2, pp.515-539, 2020 (Scopus)
- X. **Action Research Studies in Science Education in Turkey**  
Taşar M. F.  
Action Research and Innovation in Science Education, vol.3, no.1, pp.1-2, 2020 (Peer-Reviewed Journal)
- XI. **A self-study on the values and beliefs of science teachers and their science, technology, engineering and mathematics (STEM) applications**  
Dönmez İ., TAŞAR M. F.

- Participatory Educational Research, vol.7, no.1, pp.59-79, 2020 (Scopus)
- XII. **Eliciting prospective science teachers' teaching orientations by using a card sorting activity**  
Yılmaz Ergül D., Taşar M. F.  
Action Research and Innovation in Science Education, vol.3, no.2, pp.27-37, 2020 (Peer-Reviewed Journal)
- XIII. **Sözde-bilim İnanış Ölçeği'nin (SİÖ) Geliştirilmesi: Geçerlik ve Güvenirlilik Çalışması**  
Çetinkaya E., TAŞAR M. F.  
Trakya Eğitim Dergisi, vol.8, no.3, pp.497-512, 2018 (Peer-Reviewed Journal)
- XIV. **Examining the Argumentation Researches at the Science Education in Turkey**  
Çetinkaya E., TAŞAR M. F.  
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.33, no.2, pp.353-381, 2018 (ESCI)
- XV. **Turkish Adaptation of the Views of Nature of Science-Form C: Validity and Reliability Study**  
ÖZCAN H., TAŞAR M. F.  
International Journal of Physics and Chemistry Education, vol.10, no.1, pp.31-39, 2018 (Peer-Reviewed Journal)
- XVI. **Relations of characteristics of science teachers and students with the student achievement in science: A case analysis according to TIMSS 2011 data Fen bilgisi öğretmen özelliklerinin öğrenci fen başarısı ile ilişkisi: TIMSS 2011 verilerine göre bir durum analizi**  
Abazaoğlu İ., TAŞAR M. F.  
Elementary Education Online, vol.15, no.3, pp.922-945, 2016 (Scopus)
- XVII. **Using concept maps to determine pre service science teachers views about the nature of science**  
ÇETİN N. İ., TAŞAR M. F.  
Journal of Theory & Practice in Education, vol.11, no.4, pp.1185-1206, 2015 (Peer-Reviewed Journal)
- XVIII. **Bilimsel bilgi teori yükülüdür dağa çıkan 1 inek 1500 oldu etkinliği**  
ÖZCAN H., TAŞAR M. F.  
Araştırma Temelli Etkinlik Dergisi, vol.4, pp.24-35, 2014 (Peer-Reviewed Journal)
- XIX. **Bilimin Doğasına Yönelik Bir Etkinlik Ardışık Olaylar**  
ÖZCAN H., TAŞAR M. F.  
Araştırma Temelli Etkinlik Dergisi, vol.4, pp.36-45, 2014 (Peer-Reviewed Journal)
- XX. **Adaptation of The Microcomputer Utilization in Teaching Efficacy Beliefs Instrument into Turkish and Science Teaching**  
TİMUR B., TAŞAR M. F.  
Journal of Turkish Science Education, vol.10, no.3, 2013 (Scopus)
- XXI. **Adaptation of "the microcomputer utilization in teaching efficacy beliefs instrument" into turkish and science teaching Fen Öğretiminde Bilgisayar Kullani{dotless}mi{dotless}na Yönelik Öz Yeterlik İnancı{dotless} Ölçeğinin Türkçe'ye Uyarlanması{dotless}**  
TİMUR B., TAŞAR M. F.  
Journal of Turkish Science Education, vol.10, no.3, pp.59-72, 2013 (Scopus)
- XXII. **Developing Pre Service Science Teachers Cognitive Structures aboutTechnology Word Association Test WAT**  
TİMUR B., TAŞAR M. F.  
Western Anatolia Journal of Educational Sciences, pp.131-138, 2011 (Peer-Reviewed Journal)
- XXIII. **Teknolojik Pedagojik Alan Bilgisi Öz Güven Ölçeğinin TPABÖGÖ Türkçe ye Uyarlanması**  
TİMUR B., TAŞAR M. F.  
University of Gaziantep Journal of Social Sciences, vol.10, no.2, pp.839-856, 2011 (Peer-Reviewed Journal)
- XXIV. **In Service Science Teachers Technological Pedagogical Content Knowledge Confidences and Views about Technology Rich Environments**  
TİMUR B., TAŞAR M. F.  
CEPS Journal, vol.1, no.4, pp.11-25, 2011 (Peer-Reviewed Journal)
- XXV. **In-service science teachers' technological pedagogical content knowledge confidences and views about technology-rich environments Samozaupanje učiteljev naravoslovja v njihovo tehnološko-pedagoško znanje in njihova stališča do tehnološko bogatih okolij**

- TİMUR B., TAŞAR M. F.  
 Center for Educational Policy Studies Journal, vol.1, no.4, pp.11-25, 2011 (Scopus)
- XXVI. **An Investigation Of Pre Service Science Teachers Cognitive Structures and Ideas About The Nature Of Technology**  
 AYDIN F., TAŞAR M. F.  
 Ahi Evran Ünv. Kirşehir Eğitim Fakültesi Dergisi, vol.11, no.4, pp.209-221, 2010 (Peer-Reviewed Journal)
- XXVII. **Fen ve teknoloji öğretmenlerinin bilimin doğası hakkındaki görüşleri**  
 ASLAN O., YALÇIN N., TAŞAR M. F.  
 Ahi Evran Üniversitesi Eğitim Fakültesi Dergisi, vol.10, no.3, pp.1-8, 2009 (Peer-Reviewed Journal)
- XXVIII. **Challenges in Environmental Education: A Conversation with Annette Gough**  
 TAŞAR M. F.  
 Eurasia Journal Of Mathematics Science And Technology Education, vol.5, no.3, pp.187-196, 2009 (Scopus)
- XXIX. **TC 6 8 Sınıflar Fen ve Teknoloji Dersi Öğretim Programının ABD Massachusetts Eyalet Bilim ve Teknoloji Mühendislik Dersi Öğretim Programı ile Karşılaştırılarak Değerlendirilmesi**  
 TAŞAR M. F., KARAÇAM S.  
 Millî Eğitim Dergisi, vol.37, no.179, pp.195-211, 2008 (Scopus)
- XXX. **Development and Validation of a Multiple Format Test of Science Process Skills**  
 Temiz B. K., Taşar M. F., Tan M.  
 INTERNATIONAL EDUCATION JOURNAL, vol.7, no.7, pp.1007-1027, 2006 (Scopus)
- XXXI. **Öğretmen Adaylarının Momentum ve İmpuls Kavramlarına İlişkin Bilgi Yapılarının Kavram Haritaları Yöntemi ile Araştırılması**  
 ÜNLÜ P., İNĞEÇ Ş., TAŞAR M. F.  
 Eğitim ve Bilim, no.31, pp.70, 2006 (Peer-Reviewed Journal)
- XXXII. **Momentum Kavramının Öğrenme Gelişim Sıralamasının Araştırılması**  
 KANDİL İNĞEÇ Ş., ÜNLÜ P., TAŞAR M. F.  
 Kırşehir Eğitim Fakültesi Dergisi, no.7, pp.123, 2006 (Peer-Reviewed Journal)
- XXXIII. **Momentum ve İmpuls Kavramlarını Anlama II Öğretmen Adaylarının Momentum ve İmpuls Konuları ile İlgili Durumlar İçeren Problemlere Verdikleri Yazılı Cevapların İncelenmesi**  
 Kandil İnceç Ş., TAŞAR M. F., GÜNEŞ P.  
 Gazi Eğitim Fakültesi Dergisi, no.25, pp.309, 2005 (Peer-Reviewed Journal)
- XXXIV. **Foto-mat projesi ve matematik öğretmen adaylarının bu proje hakkındaki görüşleri**  
 ARIKAN A., ARGÜN Z., TAŞAR M. F., ÇAKMAK M.  
 Hacettepe Üniversitesi Eğitim Fakültesi Dergisi-Hacettepe University Journal Of Education, 2004 (Peer-Reviewed Journal)
- XXXV. **Teaching history and the nature of science in science teacher education programs**  
 TAŞAR M. F.  
 Pamukkale Üniversitesi Eğitim Fakültesi Dergisi, vol.8, no.13, pp.30-42, 2003 (Peer-Reviewed Journal)
- XXXVI. **Momentum ve İmpuls Kavramlarını Anlama I Öğretmen Adaylarının Açık Uçlu Sorularla Momentum ve İmpulsu Nasıl Tanımladıklarının Belirlenmesi**  
 ÜNLÜ YAVAŞ P., İNĞEÇ Ş., TAŞAR M. F.  
 G.Ü. Gazi Eğitim Fakültesi Dergisi, vol.22, no.3, pp.121-138, 2002 (Peer-Reviewed Journal)
- XXXVII. **Momentum ve İmpuls Kavramlarını Anlama I Öğretmen Adaylarının Açık Uçlu Sorularla Momentum ve İmpulsu Nasıl Tanımladıklarının Belirlenmesi**  
 GÜNEŞ P., ŞK İ., TAŞAR M. F.  
 Gazi Eğitim Fakültesi Dergisi, no.22, pp.121, 2002 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Technological Pedagogical Content Knowledge (TPACK) in Physics Education**  
 TAŞAR M. F., YILMAZ ERGÜL D.

- in: The International Handbook of Physics Education Research: Teaching Physics, Taşar, Mehmet Fatih; Heron, Paula R. L., Editor, AIP Publishing, pp.1-30, 2023
- II. Impact of the eco-schools program on “Education for Sustainable Development” in Turkey**  
Taşar M. F.  
in: Green Schools Globally, Annette Gough, John Chi-Kin Lee, Eric Po Keung Tsang, Editor, Springer, London/Berlin , Basel, pp.345-363, 2020
- III. Genel Fizik I**  
TAŞAR M. F., ORBAY M., ÖNER F., GÜMÜŞ S., AYVACI H. Ş., DEĞİRMENCİ S., ÜNLÜ YAVAŞ P., İNĞEÇ Ş., YILMAZLAR M. Pegem Akademi, 2017
- IV. GENEL FİZİK I**  
Taşar M. F., Orbay M., Ayvacı H. Ş., Değirmenci S., Gümüş S., İngeç Ş., Öner F., Ünlü Yavaş P., Yılmazlar M. PEGEM AKADEMİ, Ankara, 2017
- V. Fizik Nedir?**  
TAŞAR M. F.  
in: Genel Fizik I, Taşar, Mehmet Fatih Orbay, Metin, Editor, Pegem Akademi, Ankara, pp.1-24, 2017
- VI. Enerji**  
TAŞAR M. F.  
in: Genel Fizik I, Taşar, Mehmet Fatih Orbay, Metin, Editor, Pegem Akademi, Ankara, pp.197-228, 2017
- VII. Süperiletkenlik: Doğanın Yüzyıldır Çözülemeyen Bir Gizemi**  
Taşar M. F.  
in: FİZİKTE ÖZEL KONULAR, Mehmet Fatih Taşar, Editor, Pegem A Yayıncılık, Ankara, pp.71-115, 2014
- VIII. İlköğretim Fen ve Teknoloji Dersi Öğretim Programında Fizik Ünitelerinin Öğretiminde Karşılaşılan Güçlükler ve Çözüm Önerileri**  
TİMUR B., TAŞAR M. F.  
in: Türkiye'de Fizik Eğitimi Alanındaki Tecrübeler, Sorunlar, Çözümler ve Öneriler, Mehmet Şahin Bülbül, Editor, Elektronik Kitap, Ankara, pp.37-53, 2010

### Refereed Congress / Symposium Publications in Proceedings

- I. Science Teaching Orientations of Pre-Service Teachers in a Transformative Learning Environment**  
YILMAZ ERGÜL D., TAŞAR M. F.  
The 15th Conference of the European Science Education Research Association (ESERA), Nevşehir, Turkey, 28 August - 01 September 2023
- II. What Makes a Professional Development Program Efficient? Understanding Physics Teachers' Perceptions**  
ŞENTÜRK M. L., ERCAN J., TAŞAR M. F.  
European Science Education Research Association Conference (ESERA), 21 - 25 August 2017
- III. Discussant: The Challenge of Teachers to Teach Complex Socio-Scientific Issues in Science Class**  
TAŞAR M. F.  
ESERA 2017, Dublin, Ireland, 21 - 25 August 2017
- IV. What makes a professional development program efficient? Understanding physics teachers' perceptions**  
ŞENTÜRK M. L., ERCAN J., TAŞAR M. F.  
ESERA 2017, Dublin, Ireland, 21 - 25 August 2017
- V. Technological pedagogical content knowledge studies in science education: A review study**  
ERCAN J., TAŞAR M. F.  
ESERA 2017, Dublin, Ireland, 21 - 25 May 2017
- VI. The criteria for creativity in STEM Fields**  
TAŞAR M. F.  
International Conference on Applied System Innovation (IEEE ICASI 2017), Sapporo, Japan, 13 - 17 May 2017

- VII. **Methodological issues in educational research**  
TAŞAR M. F.  
The Distinguished International Scholars Seminar - The Institute of Psychology and Education of Kazan (Volga Region) Federal University, Kazan, Russia, 6 - 07 April 2017
- VIII. **The main pedagogical research problems: An international perspective**  
TAŞAR M. F.  
The Distinguished International Scholars Seminar - The Institute of Psychology and Education of Kazan (Volga Region) Federal University, Kazan, Russia, 6 - 07 April 2017
- IX. **Ethical considerations in education research and reports**  
TAŞAR M. F.  
The Distinguished International Scholars Seminar - The Institute of Psychology and Education of Kazan (Volga Region) Federal University, Kazan, Russia, 6 - 07 April 2017
- X. **Structure and organization of articles in education**  
TAŞAR M. F.  
Distinguished International Scholars Seminar - The Institute of Psychology and Education of Kazan (Volga Region) Federal University, Kazan, Russia, 6 - 07 April 2017
- XI. **Examining physics teachers' technological pedagogical content knowledge after a professional development program: Multiple case study**  
ŞENTÜRK M. L., IRMAK M., ERCAN J., YILMAZ D., TAŞAR M. F.  
National Association for Research in Science Teaching (NARST, 13 November 2016 - 23 March 2019
- XII. **Changes in Physics Teachers Cognitive Structures about Using Educational Animations and Simulations**  
IRMAK M., YILMAZ D., ERCAN J., ŞENTÜRK M., TAŞAR M. F.  
11th Biennial Conference of the European Science Education Research Association (ESERA), Helsinki, Finland, 31 August - 04 September 2015
- XIII. **More Interactive Historical Vignettes**  
TAŞAR M. F., DAĞ M. Y.  
IHPST 13th Biennial Conference, Rio de Janeiro, Brazil, 22 - 25 July 2015
- XIV. **A study on the development of a rubric for VNOS C**  
ÖZCAN H., TAŞAR M. F.  
IHPST 13th Biennial Conference, Rio de Janeiro, Brazil, 22 - 25 July 2015
- XV. **The Development of a PCK Model about Nature of Science Associated with Science Content**  
ÖZCAN H., TAŞAR M. F.  
IHPST 2015 - 13th BIENNIAL MEETING, Rio de Janeiro, Brazil, 22 - 25 July 2015
- XVI. **The Role of Scaffolding Prompt Questions on Learners Self Regulated Learning about Nature of Science in Hypermedia**  
TAŞAR M. F., ÇETİN N. İ., TİMUR B.  
IHPST 2015 13TH BIENNIAL MEETING, Rio de Janeiro, Brazil, 22 - 25 July 2015
- XVII. **Physics Teachers Development of Technology Pedagogy and Content Knowledge A Mixed Methods Study**  
TAŞAR M. F., ERCAN J., ŞENTÜRK M., YILMAZ D., IRMAK M.  
iSER 2015 WORLD CONFERENCE on EDUCATION, İstanbul, Turkey, 10 - 12 June 2015
- XVIII. **PHYSICS TEACHERS DEVELOPMENT OF TECHNOLOGY PEDAGOGY AND CONTENT KNOWLEDGE A MIXED METHOD STUDY**  
TAŞAR M. F., ERCAN J., merve lütfiye ş., YILMAZ D., IRMAK M.  
iSER World Conference, 10 - 12 June 2015
- XIX. **The VOPLÉ Project**  
TAŞAR M. F., ŞENTÜRK M., YILMAZ D., ERCAN J., IRMAK M., UŞAK M.  
iSER 2015 WORLD CONFERENCE on EDUCATION, 10 - 12 June 2015
- XX. **Examining a Teacher's Integration of Animations and Simulations in Physics Teaching after Professional Development Program**

- ERCAN J., YILMAZ D., ŞENTÜRK M., IRMAK M., TAŞAR M. F.  
American Educational Research Association (AERA) Annual Meeting, Chicago, United States Of America, 15 - 21 April 2015
- XXI. **Strand Sponsored Symposium International Perspectives about the Nature of Science**  
TAŞAR M. F.  
NARST 2015 National Association for Research in Science Teaching Annual International Conference, Chicago, United States Of America, 11 - 14 April 2015
- XXII. **Determining technological pedagogical content knowledge: multiple case study**  
YILMAZ ERGÜL D., TAŞAR M. F.  
International Science Education Conference, 12 - 15 March 2014
- XXIII. **Graduate students' understandings about weight loss: a self-study**  
Ercan J., YILMAZ ERGÜL D., TAŞAR M. F.  
International Society of Educational Research World Conference, 17 - 21 February 2014
- XXIV. **Fostering physics teachers' development of TPACK through a professional development program**  
ŞENTÜRK M. L., TAŞAR M. F., YILMAZ ERGÜL D., ERCAN J., IRMAK M.  
International Society of Educational Research World Conference, 3 - 07 February 2014
- XXV. **A virtual online physics learning environment (VOPLE) closely aligned with curriculum outcomes**  
TAŞAR M. F., KANDİL İNGEÇ Ş., TİMUR B., ŞEN A. İ., UŞAK M., ŞENTÜRK M. L., YILMAZ ERGÜL D., ERCAN J., IRMAK M.  
International Society of Educational Research World Conference, 2 - 05 February 2014
- XXVI. **Developing technological pedagogical content knowledge in pre-service science teachers through microteaching via inquiry based interactive physics computer animations**  
TAŞAR M. F., TİMUR B.  
GIREP 2010, Reims, France, 22 August 2009 - 27 August 2010, pp.716-725
- XXVII. **Measuring competences of pre-service science teachers'xx technological pedagogical content knowledge**  
TAŞAR M. F., TİMUR B.  
9th International Conference on Computer Based Learning in Science (CBLIS), Varşova, Poland, 4 - 07 July 2010, pp.279-289
- XXVIII. **The Impact of Hands on Activities in 6th Grade Electricity in Our Lives Unit on Students Attitudes**  
AYDIN N., AKIN B., GÜVEN YILDIRIM E., İNCE AKA E., TAŞAR M. F.  
XIV IOSTE International Symposium on Socio-Cultural and Human Values in Science and Technology Education, Bled, Slovenia, 13 - 18 June 2010
- XXIX. **Turkish educational system and the recent reform efforts The example of the new science and technology curriculum for grade 4 8**  
TAŞAR M. F., ATASOY B.  
Asia Pacific Educational Research Association, Taipo, China, 28 - 30 November 2006
- XXX. **Teacher candidates'xx understanding of momentum and impulse**  
TAŞAR M. F., ÜNLÜ YAVAŞ P., İNĞEÇ Ş.  
GIREP 2006, 20 - 25 August 2006
- XXXI. **An Examination of Physics Subjects in the New National Curriculum for Science and Technology in Turkey**  
GÜNEŞ B., TAŞAR M. F.  
GIREP 2006 Conference: Modeling in Physics and Physics Education, 20-25 Ağustos 2006, Amsterdam, The Netherland., 20 - 25 August 2006
- XXXII. **Eight-Grade Turkish Students' Attitudes Towards Environmental Issues**  
AKIN B., TAŞAR M. F., YAMAN S., BOZKURT O.  
Joint North American - European and American Symposium (NAESA), Cyprus (Kktc), 31 May - 04 June 2006
- XXXIII. **Bilim hakkında görüşler anketi**  
TAŞAR M. F.  
UFBMEK 5, Ankara, Turkey, 16 - 18 September 2002
- XXXIV. **Grafik çizme ve anlama becerisinin saptanması**

- Taşar M. F., İngeç Ş., Ünlü Yavaş P.  
V. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Ankara, Turkey, 16 - 18 September 2002, pp.197
- XXXV. **Turkish Preservice Elementary School Teachers Beliefs about the Nature of Science**  
AKGÜL E., TAŞAR M. F., ÇATALOĞLU E.  
Annual Meeting of National Association for Research in Science Teaching (NARST), San Diego, CA, San Diego,  
United States Of America, 19 - 22 April 1998

## Supported Projects

TAŞAR M. F., Project Supported by Higher Education Institutions, Bilimin Doğasına Yönelik Anlayışların Geliştirilmesinde Hipermedyanın Kullanılması ve Özدüzenlemenin Rolü, 2012 - 2019

TAŞAR M. F., Project Supported by Higher Education Institutions, Bilim Eğitiminde Araştırma-Sorgulamaya Dayalı Öğretim Uygulamaları Geliştirilmesi ve Hizmet-İçi Öğretimde Kullanılması, 2010 - 2019

TAŞAR M. F., Project Supported by Higher Education Institutions, Bilimsel İklimlerin Oluşturulması ve Öğretmen Adaylarının Bilimin Doğasını Anlamalarının Etkisinin Belirlenmesi, 2007 - 2011

TAŞAR M. F., Project Supported by Higher Education Institutions, Fen ve Teknoloji Öğretmenlerinin Bilimin Doğası Hakkındaki Görüşleri ve Bu Görüşlerin Sınıf Uygulamaları ve Öğrencilerin Bilimin Doğası Hakkındaki Görüşleri Üzerine Etkileri, 2007 - 2010

TAŞAR M. F., Project Supported by Higher Education Institutions, Etkileşimli tarihsel kısa hikayelerin oluşturulması, fen ve teknoloji eğitiminde kullanılması ve eğitimsel önemini belirlemesi üzerine bir nitel araştırma, 2006 - 2009

## Metrics

Publication: 98  
Citation (WoS): 51  
Citation (Scopus): 92  
H-Index (WoS): 4  
H-Index (Scopus): 5