

Prof. Sevgi Aydın Günbatar

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International Researcher IDs

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Publons / Web Of Science ResearcherID: M-1822-2013

ScopusID: 2403536

Yoksis Researcher ID: 145879

Education Information

Post Doctorate, University of Minnesota - Twin Cities, College of Education and Human Development , STEM Center , United States Of America 2022 - 2022

Doctorate, Middle East Technical University, Fen Bilimleri Ens. , Kimya Öğretmenliği , Turkey 2007 - 2012

Undergraduate, Gazi University, Eğitim Fak. , Turkey 2000 - 2005

Postgraduate, Gazi University, Eğitim Fak. , Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Examination of chemistry teachers topic-specific nature of pedagogical content knowledge in electrochemistry and radioactivity, Middle East Technical University, Fen Bilimleri Enstitüsü , Ofma , 2012

Research Areas

Social Sciences and Humanities, Education, Teacher Training in Science and Math. at Second. Sch. Lev.

Academic Titles / Tasks

Professor, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen ve Matematik Alanları Eğitimi Bölümü, 2021 - Continues

Associate Professor, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen ve Matematik Alanları Eğitimi Bölümü, 2016 - 2021

Assistant Professor, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen ve Matematik Alanları Eğitimi Bölümü, 2013 - 2016

Research Assistant, Middle East Technical University, Faculty Of Education, Ofma , 2006 - 2012

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen ve Matematik Alanları Eğitimi Bölümü, 2023 - Continues

Courses

Postgraduate

FEN EĞİTİMİNDE YAPILAN ARAŞTIRMALAR, Postgraduate, 2016 - 2017

Fen Eğitimi Alanında Yapılan Araştırmalar, Postgraduate, 2015 - 2016

Bilim Doğası, Eğitimi ve Bu Alanda Yapılan Araştırmalar, Postgraduate, 2014 - 2015

Undergraduate

Genel Kimya 2 , Undergraduate, 2016 - 2017, 2015 - 2016

BİLİMİN DOĞASI, Undergraduate, 2015 - 2016

ÖĞRETİM TEKNOLOJİLERİ VE MATERYAL TASARIM, Undergraduate, 2015 - 2016

Özel Öğretim Yöntemleri-1 , Undergraduate, 2016 - 2017

Çevre Kimyası , Undergraduate, 2015 - 2016

Genel Kimya Laboratuvarı , Undergraduate, 2014 - 2015

Genel Kimya 1 , Undergraduate, 2015 - 2016

KİMYA EĞİTİMİNDE YANLIŞ KAVRAMLAR, Undergraduate, 2013 - 2014

Supervised Theses

Aydın Günbatır S., Lise kimya ve fizik ders kitaplarındaki Millikan yağ damlası deneyinin bilim tarihi ve felsefesi açısından incelenmesi, Postgraduate, B.KAMBER(Student), 2023

Aydın Günbatır S., Türkiye'de son on yılda yayımlanmış kimya ve fizik ders kitaplarındaki atom modelleri konusunun belirlenen kriterler doğrultusunda bilim tarihi ve felsefesi çerçevesinde incelenmesi, Postgraduate, E.SAVAŞAN(Student), 2023

Aydın Günbatır S., EXAMINATION OF HISTORY OF SCIENCE CONTENT IN THE MIDDLE SCHOOL SCIENCE TEXTBOOKS, Postgraduate, N.Önder(Student), 2023

Aydın Günbatır S., INVESTIGATION OF SCIENCE TEACHERS' PEDAGOGICAL CONTENT KNOWLEDGE REGARDING CIRCUIT ELEMENTS DURING DISTANCE EDUCATION, Postgraduate, N.KAPLAN(Student), 2021

Aydın S., THE EXAMINATION OF THE STEM ACTIVITIES PUBLISHED IN TURKEY BY THE USE OF THE CRITERIA FORMED IN THE LIGHT OF THE LITERATURE, Postgraduate, N.PULAT(Student), 2020

Aydın S., 6.SINIF ÖĞRENCİLERİNİN MÜHENDİSLİK VE MÜHENDİS ALGILARININ MADDE VE ISI ÜNİTESİNDEKİ FeTeMM EĞİTİMİ SÜRECİNDE İNCELENMESİ, Postgraduate, Ö.ŞAPKAN(Student), 2019

Aydın S., ÜLKEMİZDE FeTeMM ALANINDA YAPILMIŞ OLAN ÇALIŞMALARIN İÇERİK ANALİZİ, Postgraduate, V.TABAR(Student), 2018

Aydın S., Bilimin Doğasının Lise Kimya Ders Kitaplarında Ele Alınışı, Postgraduate, S.TORTUMLU(Student), 2014

Aydın S., Lise Öğrencilerinin Kimya Dersinde Öğrendikleri Konuları Günlük Hayat Olaylarını Açıklamakta Kullanabilme Seviyelerinin İncelenmesi, Postgraduate, B.DEMİRCİ(Student), 2014

Jury Memberships

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, July, 2019

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, August, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Systematic Review of Green and Sustainable Chemistry Training Research with Pedagogical Content Knowledge Framework: Current Trends and Future Directions**
Aydın Günbatar S., Ekiz Kiran B., Boz Y., Öztay E. S.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.26, pp.34-52, 2025 (SCI-Expanded)
- II. **A Closer Examination of Earth and Life Science Teachers' Science and Engineering Integration**
Aydın Günbatar S., Öztürk N., Roehrig G.
JOURNAL OF SCIENCE EDUCATION AND TECHNOLOGY, vol.34, no.1, pp.135-147, 2025 (SCI-Expanded)
- III. **Supporting pre-service teachers' integration of engineering into STEM lessons throughout engineering-infused training**
Gunbatar S. A., Öztay E. S., Kiran B. E.
RESEARCH IN SCIENCE & TECHNOLOGICAL EDUCATION, vol.42, no.3, pp.618-638, 2024 (SSCI)
- IV. **The Integrations of Elementary Science Teachers' Technological Pedagogical Content Knowledge Components during COVID-19: Teaching Electric Circuits and Circuit Diagrams**
Aydın Günbatar S., Kaplan N., Fatmanur Akın F.
RESEARCH IN SCIENCE EDUCATION, vol.54, no.3, pp.475-497, 2023 (SSCI)
- V. **Elementary science teachers' engineering integration after long-term in-service training program with and without curriculum material support.**
Öztürk N., Aydın Günbatar S., Roehrig G.
RESEARCH IN SCIENCE & TECHNOLOGICAL EDUCATION, vol.3, no.3, pp.1-21, 2023 (SSCI)
- VI. **Elaborating Nature of Engineering Through Family Resemblance Approach**
Aydın Günbatar S., Roehrig G.
SCIENCE AND EDUCATION, vol.1, no.1, pp.1-33, 2023 (SSCI)
- VII. **Discourse Analysis of In-Service Teachers' Interdisciplinary Collaboration for Decision-Making through Design-Based Integrated STEM Activities**
Aydın Günbatar S., Şardağ M.
EGITIM VE BILIM, vol.47, no.212, pp.17-54, 2022 (SSCI)
- VIII. **A closer examination of the STEM characteristics of the STEM activities published in NSTA journals**
Aydın Günbatar S., Kiran B. E., Boz Y., Roehrig G. H.
RESEARCH IN SCIENCE & TECHNOLOGICAL EDUCATION, vol.1, pp.1-26, 2022 (SSCI)
- IX. **Pre-service chemistry teachers' use of pedagogical transformation competence to develop topic-specific pedagogical content knowledge for planning to teach acid-base equilibrium**
Aydın Günbatar S., Akın F. N.
Chemistry Education Research And Practice, vol.23, no.1, pp.137-158, 2022 (SCI-Expanded)
- X. **Analysis of Engineering Elements of K-12 Science Standards in Seven Countries Engaged in STEM Education Reform**
Ekiz-Kiran B., Aydın S.
Science & Education, vol.30, no.4, pp.1-34, 2021 (SCI-Expanded)
- XI. **Pre-Service Chemistry Teachers' Pedagogical Content Knowledge for Integrated STEM Development with LESMeR Model**
Aydın S., Ekiz Kiran B., Öztay E. S.
Chemistry Education Research And Practice, vol.1, pp.1-25, 2020 (SCI-Expanded)
- XII. **The influence of a design-based elective STEM course on pre-service chemistry teachers' content knowledge, STEM conceptions, and engineering views**
Aydın-Gunbatar S., Tarkın Çelikkıran A., Kutucu E. S., Ekiz Kiran B.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.19, no.3, pp.954-972, 2018 (SCI-Expanded)
- XIII. **Mediated Effects of Technology Competencies and Experiences on Relations among Attitudes**

Towards Technology Use, Technology Ownership, and Self Efficacy about Technological Pedagogical Content Knowledge

Yerdelen-Damar S., BOZ Y., Aydın-Gunbatar S.

JOURNAL OF SCIENCE EDUCATION AND TECHNOLOGY, vol.26, no.4, pp.394-405, 2017 (SCI-Expanded)

- XIV. **Exploring the complexity of teaching: the interaction between teacher self-regulation and pedagogical content knowledge**
Uzuntiryaki-Kondakci E., Demirdogen B., Akin F. N., Tarkin A., Aydın-Gunbatar S.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.18, no.1, pp.250-270, 2017 (SCI-Expanded)
- XV. **Relations of Approaches to Learning with Perceptions of Learning Environment and Goal Orientations**
Yerdelen-Damar S., Aydın S.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.40, no.179, pp.269-293, 2015 (SSCI)
- XVI. **Looking at the Mirror: A Self-Study of Science Teacher Educators' PCK for Teaching Teachers**
Demirdogen B., Aydın S., Tarkin A.
EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.11, no.2, pp.189-205, 2015 (SSCI)
- XVII. **The nature and development of interaction among components of pedagogical content knowledge in practicum**
Aydın S., Demirdogen B., Akin F. N., Uzuntiryaki-Kondakci E., Tarkin A.
TEACHING AND TEACHER EDUCATION, vol.46, pp.37-50, 2015 (SSCI)
- XVIII. **A science faculty's transformation of nature of science understanding into his teaching graduate level chemistry course**
Aydın S.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.16, no.1, pp.133-142, 2015 (SCI-Expanded)
- XIX. **The analysis of the changes in integration of nature of science into Turkish high school chemistry textbooks: is there any development?**
Aydın S., TORTUMLU S.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.16, no.4, pp.786-796, 2015 (SCI-Expanded)
- XX. **Turkish, Indian, and American Chemistry Textbooks Use of Inscriptions to Represent 'Types of Chemical Reactions'**
Aydın S., SINHA S., Izci K.
EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.10, no.5, pp.383-393, 2014 (SSCI)
- XXI. **The Integration of Nature of Science in the New Secondary Physics, Chemistry, and Biology Curricula**
Şardağ M., Aydın S., KALENDER N., TORTUMLU S., CIFTCI M., PERIHANOĞLU S.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.39, no.174, pp.233-248, 2014 (SSCI)
- XXII. **Examination of the topic-specific nature of pedagogical content knowledge in teaching electrochemical cells and nuclear reactions**
Aydın S., FRIEDRICHSEN P. M., BOZ Y., HANUSCIN D. L.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.15, no.4, pp.658-674, 2014 (SCI-Expanded)
- XXIII. **Providing a Set of Research-Based Practices to Support Preservice Teachers' Long-Term Professional Development as Learners of Science Teaching**
Aydın S., Demirdogen B., Tarkin A., Kutucu S., Ekiz B., Akin F. N., Tuysuz M., Uzuntiryaki E.
SCIENCE EDUCATION, vol.97, no.6, pp.903-935, 2013 (SSCI)
- XXIV. **Professional Journals as a Source of PCK for Teaching Nature of Science: An Examination of Articles Published in The Science Teacher (TST) (an NSTA Journal), 1995-2010**
Aydın S., Demirdöğen B., MUSLU N., HANUSCIN D. L.
Journal of Science Teacher Education, vol.24, no.6, pp.977-997, 2013 (SCI-Expanded)
- XXV. **The nature of integration among PCK components: A case study of two experienced chemistry teachers**
Aydın S., BOZ Y.

- CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.14, no.4, pp.615-624, 2013 (SCI-Expanded)
- XXVI. **Review of Studies Related to Pedagogical Content Knowledge in the Context of Science Teacher Education: Turkish Case**
Aydın S., BOZ Y.
KURAM VE UYGULAMADA EGITIM BILIMLERI, vol.12, no.1, pp.475-512, 2012 (SSCI)
- XXVII. **Are They Efficacious? Exploring Pre-Service Teachers' Teaching Efficacy Beliefs during the Practicum**
Aydın S., Demirdögen B., Tarkin A.
ASIA-PACIFIC EDUCATION RESEARCHER, vol.21, no.1, pp.203-213, 2012 (SSCI)
- XXVIII. **Examination of pre-service chemistry teachers' preferences for creating constructivist-learning environment**
Aydın S., Boz Y., SUNGUR S., Çetin G.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.42, pp.36-47, 2012 (SSCI)
- XXIX. **Factors that are Influential in Pre-service Chemistry Teachers' Choices of Instructional Strategies in the Context of Methods of Separation of Mixtures: A Case Study.**
Aydın S., BOZ N., BOZ Y.
ASIA-PACIFIC EDUCATION RESEARCHER, vol.19, no.2, pp.251-270, 2010 (SSCI)
- XXX. **The Contribution of Constructivist Instruction Accompanied by Concept Mapping in Enhancing Pre-service Chemistry Teachers' Conceptual Understanding of Chemistry in the Laboratory Course**
Aydın S., Aydemir N., BOZ Y., Cetin-Dindar A., BEKTAŞ O.
JOURNAL OF SCIENCE EDUCATION AND TECHNOLOGY, vol.18, no.6, pp.518-534, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Examination of Explicit Engineering emphasis on Students' Knowledge and Views of Engineering through STEM Training**
Aydın Günbatır S., Şapkan Ö.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.38, no.2, pp.275-286, 2023 (ESCI)
- II. **Assessing chemistry teachers' needs and expectations from integrated STEM education professional developments**
Öztay E. S., Aydın Günbatır S., Ekiz Kıran B.
Journal of Pedagogical Research , vol.6, no.2, pp.29-43, 2022 (Peer-Reviewed Journal)
- III. **Examination of pre-service chemistry teachers' STEM conceptions through an integrated STEM course**
Aydın Günbatır S., Öztay E. S., Ekiz Kıran B.
TURKISH JOURNAL OF EDUCATION, vol.10, no.4, pp.251-273, 2021 (ESCI)
- IV. **Teaching nature of science through the use of media reports on COVID-19**
Demirdögen B., Aydın Günbatır S.
SCIENCE ACTIVITIES-PROJECTS AND CURRICULUM IDEAS IN STEM CLASSROOMS, vol.58, no.3, pp.98-115, 2021 (ESCI)
- V. **Making homemade indicator and strips: a STEM + activity for acid-base chemistry with entrepreneurship applications**
Aydın S.
Science Activities Projects and Curriculum Ideas in STEM Classrooms, vol.3, no.4, pp.1-10, 2020 (ESCI)
- VI. **KİMYA ÖĞRETMENLERİNİN FETEMM'E YÖNELİK ZİHİNSEL MODELLERİNDEKİ DEĞİŞİMİN HİZMET-İÇİ ÖĞRETMEN EĞİTİMİ BOYUNCA İNCELENMESİ**
Kutucu E. S., Aydın S.
Uşak Üniversitesi Eğitim Araştırmaları Dergisi, vol.5, no.3, pp.22-42, 2019 (Peer-Reviewed Journal)

- VII. **EXPERIENCED CHEMISTRY TEACHERS' SCIENCE PROCESS SKILLS (SPSS) DEVELOPMENT AND THEIR USE OF SPSS IN ACTIVITY PLANS**
Aydın S., Kutucu E. S., Tarkin Çelikkıran A., Ekiz Kıran B.
TURKISH ONLINE JOURNAL OF EDUCATIONAL TECHNOLOGY, vol.2, pp.149-161, 2019 (Peer-Reviewed Journal)
- VIII. **Türkiye'de Gerçekleştirilen STEM Araştırmalarının İçerik Analizi**
Aydın S., Tabar V.
Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, vol.16, no.1, pp.1054-1083, 2019 (Peer-Reviewed Journal)
- IX. **Comparison of Learners' Problem Solving Approaches and Success in Stoichiometry**
Aydın S., KALENDER N.
Science Education International, vol.30, no.3, pp.169-180, 2019 (Peer-Reviewed Journal)
- X. **ELMANIN KARARMASININ ENGELLENMESİ: BİR FeTeMM ETKİNLİĞİ**
Aydın S.
Araştırma Temelli Etkinlik Dergisi, vol.8, pp.99-110, 2018 (Peer-Reviewed Journal)
- XI. **Kimya Öğretmen Adaylarının FeTeMM Uygulamaları Hakkındaki Görüşlerinin İncelenmesi**
Tarkin Çelikkıran A., Aydın S.
Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, vol.14, no.1, pp.1624-1656, 2017 (Peer-Reviewed Journal)
- XII. **A Closer Examination of TPACK-Self-efficacy Construct: Modeling Elementary Pre-service Science Teachers' TPACK-Self efficacy**
Aydın S., Boz Y., Yerdelen Damar S.
ELEMENTARY EDUCATION ONLINE, vol.16, no.3, pp.917-934, 2017 (Scopus)
- XIII. **Learning to Teach: Graduate Assistants' Expedition into Teaching Teachers**
Aydın S., HANUSCIN D. L.
Yükseköğretim Dergisi (Journal of Higher Education), vol.3, no.3, pp.129-141, 2013 (Peer-Reviewed Journal)
- XIV. **Secret in the Margins: Rutherford's Gold Foil Experiment**
Aydın S., HANUSCIN D. L.
The Science Teacher, vol.78, no.7, pp.56-60, 2011 (Peer-Reviewed Journal)
- XV. **Teachers' views related to the new science and technology curriculum: Ankara case.**
Aydın S., Çakıroğlu J.
ELEMENTARY EDUCATION ONLINE, vol.9, no.1, pp.301-315, 2010 (Peer-Reviewed Journal)

Books

- I. **Fen Eğitime Mühendislik Entegrasyonu**
Aydın Günbatır S., Ekiz-Kıran B., Öztay E. S.
in: Disiplinlerarası FEN ÖĞRETİMİ, Esra Kızılay, Mustafa Çevik, Editor, Eğiten Kitap, Ankara, pp.169-210, 2022
- II. **Kitap-Kahve Ortamlarında STEM+ Eğitimi**
Aydın Günbatır S.
in: Okul Dışı Ortamlarda STEM Eğitimi, Büşra BAKİOĞLU, Mustafa ÇEVİK, Editor, Nobel Yayınevi, Ankara, pp.343-375, 2021
- III. **Technology Trends in Science Teaching**
Artun H. (Editor), Aydın S. (Editor), Günbatır M. S. (Editor)
PEGEM AKADEMİ, Ankara, 2020
- IV. **Technology Trends in Science Teaching**
Aydın S.
in: Fen Öğretiminde Teknoloji Eğilimleri, Hüseyin Artun, Sevgi AYDIN, Mustafa Serkan Günbatır, Editor, Pegem Akademi, Ankara, pp.27-46, 2020
- V. **Çağdaş Yaklaşımlarla Destekli Fen Öğretimi: Teoriden Uygulamaya Etkinlik Örnekleri**
Artun H., Aydın S.
Pegem Akademi Yayın Evi, Ankara, 2019
- VI. **OLGU BİLİM (FENOMENOLOJİK ARAŞTIRMA) YÖNTEMİ**

- Aydın S.
in: Eğitimde Araştırma Yöntemleri, Özmen, H. & Karamustafaoğlu O., Editor, Pegem Akademi Yayın Evi, Ankara, pp.292-315, 2019
- VII. **Öğretmenlik Mesleği ve Öğretmen Yetiştirmede Güncel Gelişmeler**
Aydın S.
in: EĞİTİME GİRİŞ, Doç. Dr. Mehmet ŞAHİN - Doç. Dr. Tufan AYTAÇ, Editor, Pegem Akademi Yayın Evi, Ankara, pp.277-291, 2019
- VIII. **Fen, Teknoloji, Mühendislik ve Matematik (FeTeMM) Yaklaşımı ve FeTeMM'e Uygun Etkinlik Hazırlama Rehberi**
Aydın S.
in: Çağdaş Yaklaşımlarla Destekli Fen Öğretimi: Teoriden Uygulamaya Etkinlik Örnekleri, Artun H. & Aydın-Günbatar, S., Editor, Pegem Akademi Yayın Evi, Ankara, pp.2-23, 2019
- IX. **PEDAGOGİK ALAN BİLGİSİ TEMELLİ ÖZEL ÖĞRETİM YÖNTEMLERİ DERSİ: TEORİDEN UYGULAMAYA**
Aydın S.
in: Teoriden Uygulamaya Pedagogik Alan Bilgisi, Uluçınar- Sağır Ş. , Editor, Pegem A, Ankara, pp.65-84, 2018
- X. **Kimya Öğretiminde Fen, Teknoloji, Mühendislik ve Matematik Uygulamaları**
Aydın S., Tarkın Çelikkıran A., Demirdöğen B.
in: Kimya Öğretimi: Öğretmen Eğitimcileri, Öğretmenler ve Öğretmen Adayları için İyi Uygulama Örnekleri, Ayas A., Sözbilir M., Editor, Pegem A, Ankara, pp.469-490, 2017
- XI. **Chemistry Teaching Method Course for Secondary Science Teacher Training: An Example from Turkey**
Aydın S., DEMIRDOGEN B.
in: Designing and Teaching the Secondary Science Methods Course An International Perspective, Sickel A.J., Witzig, S. B. , Editor, Sensepublishers, Boston, pp.129-148, 2017
- XII. **Olgu Bilim Araştırması**
Aydın S.
in: Kuramdan Uygulamaya Eğitimde Bilimsel Araştırma Yöntemleri, Metin M., Editor, Pegem A Yayıncılık, Ankara, pp.287-311, 2016
- XIII. **Using Pedagogical Content Knowledge in Teacher Education**
Aydın S., DEMIRDOGEN B.
in: A Guidebook of Good Practice for the Pre-Service Training of Chemistry Teachers, Iwona Maciejowska & Bill Byers, Editor, Drukarnia Scriptor, Krakow, pp.151-174, 2015
- XIV. **BASİT MALZEMELER KULLANILARAK KİMYA ÖĞRETİM ETKİNLİKLERİ GELİŞTİRME VE KULLANMA**
Aydın S., Tarkın A.
in: Kimya Öğretimi: Öğretmen Eğitimcileri, Öğretmenler ve Öğretmen Adayları İçin İyi Uygulama Örnekleri, Ayas, A. & Sözbilir, M. , Editor, Pegem A Yayıncılık, Ankara, pp.183-196, 2015

Papers Published in Refereed Scientific Meetings

- I. **Science and engineering integration: Earth and life science teachers' STEM implementations**
Aydın Günbatar S., Öztürk N., Roehrig G.
European Science Education Research Association (ESERA), Nevşehir, Turkey, 28 August - 01 September 2023, pp.1-4
- II. **Investigating the interplay between the TPACK and creativity of pre-service science teachers.**
Durukan A., Çakıroğlu J., Aydın Günbatar S.
European Science Education Research Association (ESERA), Nevşehir, Turkey, 28 August - 01 September 2023, pp.1-3
- III. **Examining the Effect of a Long-term Engineering-based Professional Development Program on Science Teachers' Implementation of Engineering Design Lessons**
Öztürk N., Aydın Günbatar S., Roehrig G.

European Conference on Educational Research (ECER Plus, online) Conference, Yerevan, Armenia, 1 - 10 September 2022, pp.1-2

- IV. **Nature of engineering: A systematic review of the literature and framing the construct for K-12 education**
Aydın Günbatar S., Roehrig G.
European Conference on Educational Research (ECER Plus, online) Conference, Yerevan, Armenia, 1 - 10 September 2022, pp.1-2
- V. **Pre-Service Teachers' Learning to Infuse Engineering Into STEM Lesson Plans**
Aydın Günbatar S., Ekiz-Kıran B., Öztay E. S.
NARST 95th Annual International Conference, Vancouver, Canada, 27 - 30 March 2022, pp.182
- VI. **The Examination of Experienced Chemistry Teachers' Science Process Skills' Development through Professional Development**
Aydın S., Kutucu E. S., Tarkın Çelikkıran A., Ekiz Kıran B.
INTE-2019, Prag, Czech Republic, 3 - 05 July 2019, pp.724-729
- VII. **Dünyanın Farklı Ülkelerindeki Kimya Programlarının Mühendislik Bileşenleri Yönünden İncelenmesi**
Ekiz Kıran B., Aydın S., Kutucu E. S.
UKEK 2019, Ankara, Turkey, 2 - 05 May 2019, pp.82
- VIII. **Evaluation of a professional development program: STEM education and applications for chemistry teachers**
Tarkın Çelikkıran A., Ekiz Kıran B., Aydın S., Kutucu E. S.
The 28th International Conference on Educational Sciences, Ankara, Turkey, 25 - 28 April 2019, pp.1255-1262
- IX. **Kimya Öğretmenlerinin Sorgulayıcı Araştırmaya Dayalı Etkinliklere Yönelik Görüşleri**
Kutucu E. S., Tarkın Çelikkıran A., Ekiz Kıran B., Aydın S.
13. Ulusal Fen Bilimleri ve Matematik Alanları Eğitimi Kongresi, Denizli, Turkey, 4 - 06 October 2018, pp.1
- X. **Effectiveness of STEM Course on Pre-service Chemistry Teachers' Content Knowledge**
Aydın S., Kutucu E. S., Tarkın Çelikkıran A., Ekiz Kıran B.
European Conference On educational Research, Bolzano, Italy, 3 - 04 September 2018, pp.35-36
- XI. **Examining Pre-service Chemistry Teachers' Development of Lesson Planning through Topic-specific Chemistry Teaching Method Course**
Aydın S., Tarkın Çelikkıran A.
European Conference On educational Research, Bolzano, Italy, 3 - 04 September 2018, pp.25-26
- XII. **Pre-service Chemistry Teachers' Science-Technology-Engineering-Mathematics (STEM) Conceptions and Views on Implementation of STEM**
Kutucu E. S., Tarkın Çelikkıran A., Ekiz Kıran B., Aydın S.
Educational Researches and Publications Associations(ERPA), İstanbul, Turkey, 28 June - 01 July 2018, pp.1
- XIII. **Preservice Chemistry Teachers'Views on STEM Activities**
Tarkın Çelikkıran A., Ekiz Kıran B., Aydın S., Kutucu E. S.
27th International Conferences on Educational Sciences, Antalya, Turkey, 18 - 22 April 2018, pp.3441-3442
- XIV. **Content Analysis of Turkish STEM Reserach: Looking at the Big Picture**
TABAR V., Aydın S.
27th ICES, Antalya, Turkey, 18 - 22 April 2018, pp.227
- XV. **Providing Science, Technology, Engineering, And Mathematics (stem) Applications For Pre-service Chemistry Teachers: An Example Of A Stem Application Course**
Kutucu E. S., Tarkın Çelikkıran A., Ekiz Kıran B., Aydın S.
27th ICES, Antalya, Turkey, 18 - 22 April 2018, pp.199
- XVI. **Investigating the Effect of a STEM Course on Pre-service Chemistry Teachers' Views on Engineering**
Ekiz Kıran B., Aydın S., Kutucu E. S., Tarkın Çelikkıran A.
27th International Conferences on Educational Sciences, Antalya, Turkey, 18 - 22 April 2018, pp.3295-3296
- XVII. **How Should PCK for STEM be developed in Pre-service Teacher Education? Lessons Learned from an Elective STEM Course**
Aydın S., Kutucu E. S., Tarkın Çelikkıran A., Ekiz Kıran B.

- 27th International Conferences on Educational Sciences, Antalya, Turkey, 18 - 22 April 2018, pp.3346-3347
- XVIII. Changes In Pre-Service Chemistry Teachers' Teaching Efficacy Beliefs Through Topic- and Domain Specific Teaching Methods Courses**
Tarkın A., Aydın S.
26th International Conference on Educational Sciences, Antalya, Turkey, 20 - 23 April 2017, pp.2002-2003
- XIX. Pre-Service Chemistry Teachers' Views About Topic- and Domain-Specific Teaching Method Course**
Aydın S.
26th International Conference on Educational Sciences, Antalya, Turkey, 20 - 23 April 2017, pp.1984-1985
- XX. The Analysis Of Teacher and Textbook Questions In Gases Topic: Question-Answer Relationship Framework**
Aydın S., TABAR V., Gökçe C.
26th International Conference on Educational Sciences, Antalya, Turkey, 20 - 23 April 2017, pp.1992-1993
- XXI. Kimya derslerinde sorulan soruların bilişsel düzey ve hedef davranışlar açısından değerlendirilmesi**
Tarkın A., Aydın S., GÖKÇE C., BAĞ E., ÖZDEMİR H., KILIÇ S.
12. Ulusal fen ve Matematik Alanları Eğitimi Kongresi, Trabzon, Turkey, 28 - 30 September 2016, pp.191
- XXII. Exploring Preservice Teachers Use of Self-Regulatory Processes in their Instructions**
UZUNTIRYAKI-KONDAKCI E., DEMIRDOGEN B., AKIN F. N., Tarkın A., Aydın S.
EARLI SIG 11 Conference 2016: Diversity and Inclusion as a Challenge for Teacher Education, Zürich, Switzerland, 20 - 22 June 2016, pp.1
- XXIII. Examination of problem solving skills of learners from different level of education in chemistry**
Aydın S.
12th International Congress of Qualitative Inquiry (ICQI), Urbana, United States Of America, 18 - 21 May 2016, pp.1
- XXIV. Examination of elementary science teacher guidebooks by the use of PCK framework**
Aydın S.
Budapeşte, Hungary, 7 - 11 September 2015, pp.1
- XXV. Modeling Relations of Attitudes towards Technology Use, Technology Competencies, Ownership, and Experiences to TPACK-Self Efficacy.**
Yerdelen Damar S., Aydın S., BOZ Y.
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- XXVI. Modeling Elementary Science Teachers' TPACK**
Aydın S., BOZ Y., Yerdelen Damar S.
88th NARST Annual International Conference,, Chicago, United States Of America, 11 - 14 April 2015, pp.1
- XXVII. The relationship between preservice teacher self-regulation and PCK**
Tarkın A., UZUNTIRYAKI-KONDAKCI E., AKIN F. N., DEMIRDOGEN B., Aydın S.
NARST, Chicago, United States Of America, 11 - 14 April 2015, pp.469
- XXVIII. Bir kimya profesörünün Bilimin doğası ile ilgili bilgisi ve deneylerini yüksek lisans kimya dersine yansıtması**
Aydın S.
XI. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Adana, Turkey, 11 - 14 September 2014, pp.30
- XXIX. The examination of high school students' achievement in daily-life chemistry and attitudes toward daily-life chemistry.**
Aydın S., Demirci B.
European Conference on Educational Research (ECER), Porto, Portugal, 1 - 05 September 2014, pp.102
- XXX. The Examination of Hands-on Activities in High School Chemistry Textbooks by the Use of Features of Inquiry. International Congress of Educational Research.**
Aydın S., Mertüç S., Karakuş T., ÖZTÜRK M.
VI. International Congress of Educational Research, Ankara, Turkey, 5 - 08 June 2014, pp.36
- XXXI. Nature and Development of Interplay among Pre-service teachers' PCK components in Mentoring-enriched PCK-based Practicum**
DEMIRDOGEN B., Aydın S., AKIN F. N., UZUNTIRYAKI-KONDAKCI E.
National Association For Research in Science Teaching, Pittsburg, United States Of America, 30 March - 02 April

2014, pp.88

- XXXII. **Growing a garden with water: Enriching the teaching practice course with mentoring and explicit PCK use**
Aydın S., Tarkın A., Demirdöğen B., UZUNTIRYAKI-KONDAKCI E.
European Conference on Educational Research, İstanbul, Turkey, 9 - 13 September 2013, pp.12
- XXXIII. **A Closer Look at the Influence of Context on Experienced Teachers' Pedagogical Content Knowledge**
Aydın S.
European Conference on Educational Research (ECER), İstanbul, Turkey, 9 - 13 September 2013, pp.51
- XXXIV. **Development of Pre-Service Chemistry Teachers' Science Teaching Orientations in Practice Teaching Course**
DEMİRDOĞEN B., Tarkın A., Aydın S., UZUNTIRYAKI-KONDAKCI E.
European Conference on Educational Research (ECER), İstanbul, Turkey, 9 - 13 September 2013, pp.78
- XXXV. **Development of creativity in pre-school teacher candidates and its reflection on their professional works**
Rakap A., Aydın S.
European Conference on Educational Research (ECER), İstanbul, Turkey, 9 - 13 September 2013, pp.26
- XXXVI. **Looking at the mirror: a self-study of prospective science teacher educators' pck for teaching teachers**
Aydın S., DEMİRDOĞEN B., Tarkın A.
86th NARST, Rio Grande, Puerto Rico, 6 - 09 April 2013, pp.45
- XXXVII. **Providing Meaningful Experience to Pre-Service Teachers: Mentoring Enriched PCK Based Practicum Course.**
Tarkın A., Demirdöğen B., Aydın S., Ekiz Kıran B., Kutucu E. S., Akın F. N., Tüysüz M., Uzuntiryaki E.
86th NARST Annual International Conference, Puerto Rico, United States Of America, 6 - 09 April 2013, pp.72
- XXXVIII. **Development of Pre-Service Chemistry Teachers' Science Teaching Orientations in Practice Teaching Course**
DEMİRDOĞEN B., AYDIN S., ÖZTAY E. S., TÜYSÜZ M., EKİZ KIRAN B., TARKIN ÇELİKKIRAN A., AKIN F. N., KONDAKCI E.
11th European Conference on Research in Chemical Education (ECRICE), ROMA, Italy, 15 - 20 July 2012
- XXXIX. **Kimya Öğretmen Adaylarının Kimya Eğitimine Yönelik Sorunlara Bakışı ve Çözüm Önerileri**
Tüysüz M., Tarkın A., Kutucu E. S., Ekiz Kıran B., Aydın S., Demirdöğen B., Uzuntiryaki E.
10. Fen ve Matematik Alanları Eğitimi Kongresi, Niğde, Turkey, 27 - 30 June 2012, pp.303
- XL. **Deneyimli Kimya Öğretmenlerinin Pedagojik Alan Bilgisinin Oluşmasına Yardımcı Olan Kaynaklar.**
Aydın S., BOZ Y.
10. Fen ve Matematik Alanları Eğitimi Kongresi, Niğde, Turkey, 27 - 30 June 2012, pp.253
- XLI. **Further Examination of Interplay between Pedagogical Content Knowledge Components**
Aydın S., BOZ Y.
National Association For Research in Science Teaching, Indianapolis, United States Of America, 25 - 28 March 2012, pp.44
- XLII. **Comparison of Experienced Chemistry Teachers' Pedagogical Content Knowledge in Electrochemistry and Radioactivity**
BOZ Y., Aydın S.
National Association For Research in Science Teaching, Indianapolis, United States Of America, 25 - 28 March 2012, pp.32
- XLIII. **A closer look at topic-specific nature of pedagogical content knowledge in secondary chemistry**
Aydın S., FRIEDRICHSEN P. M., HANUSCIN D. L., Abell S.
World Conference on New Trends in Science Education, Aydın, Turkey, 19 - 23 September 2011, pp.54
- XLIV. **Graduate assistants' journey toward learning to teach**
Aydın S., HANUSCIN D. L.
World Conference on New Trends in Science Education, Aydın, Turkey, 19 - 23 September 2011, pp.76
- XLV. **Needs Assessment for Teaching Assistants: What Do They Need to Develop Teaching Skills.**

- Aydın S., AKIN F. N., Tarkın A.
World Conference on New Trends in Science Education (WCNTSE), Aydın, Turkey, 19 - 23 July 2011, pp.47
- XLVI. **İyi Bir Kimya Eğitimsi Ne Tür Bilgilere Sahip Olmalıdır?**
AKIN F. N., Tarkın A., Aydın S.
II. Ulusal Kimya Eğitimi Kongresi, Erzurum, Turkey, 5 - 08 July 2011, pp.1
- XLVII. **Öğretmen adaylarının mikro öğretim ile zenginleştirilmiş öğretmenlik uygulaması dersi hakkındaki görüşleri.**
Aydın S., Tarkın A., Demirdöğen B.
9. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, İzmir, Turkey, 23 - 25 September 2010, pp.1
- XLVIII. **Kimya öğretmen adaylarının özyeterlik inançları.**
Tarkın A., Demirdöğen B., Aydın S.
9. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, İzmir, Turkey, 23 - 25 September 2010, pp.1
- XLIX. **Kimya öğretmen adaylarının öğretmen yeterlikleri hakkındaki görüşleri.**
Demirdöğen B., Aydın S., Tarkın A.
9. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, İzmir, Turkey, 23 - 25 September 2010, pp.1
- L. **Six Pre-service Teachers' Experience on Factors Influencing Choice of Instructional Strategies**
Aydın S., BOZ Y.
European Conference on Educational Research, Viyana, Austria, 25 - 30 September 2009, pp.48
- LI. **Examination on Pre-Service and In-Service Teachers' Sense of Efficacy Beliefs.**
Tarkın A., Aydın S., UZUNTIRYAKI-KONDAKCI E., Boz Y.
ESERA, İstanbul, Turkey, 31 August - 04 September 2009, pp.71-75
- LII. **Effectiveness of a Course on Pre-Service Chemistry Teachers' Pedagogical Content Knowledge and Subject Matter Knowledge.**
Aydın S., DEMIRDOĞEN B., Tarkın A., UZUNTIRYAKI-KONDAKCI E.
ESERA, İstanbul, Turkey, 31 August - 04 September 2009, pp.59-69
- LIII. **Pre-Service Science Teachers' Teaching Self-Efficacy Beliefs.**
Aydın S., BOZ Y.
Further Education in Balkan Countries, Konya, Turkey, 23 October - 26 August 2008, pp.907-914
- LIV. **Are Senior Pre-service Chemistry Teachers Aware of the Students' Misconceptions Related with Particulate Nature of Matter (PNM) in the Context of Gases?**
Aydın S., BOZ Y.
ECRICE, İstanbul, Turkey, 6 - 09 July 2008, pp.68
- LV. **What are the Pre-service Chemistry Teachers' misconceptions on acid-base concepts?.**
BEKTAS O., CETIN-DINDAR A., BOZ Y., Aydın S.
ECRICE, İstanbul, Turkey, 6 - 09 July 2008, pp.38
- LVI. **Senior Pre-service Chemistry Teachers' Misconceptions about Gases and their Knowledge of Learners' Misconceptions**
Aydın S., BOZ Y.
International conference on educational research (ICES), Gazimagusa, Turkey, 23 June - 25 August 2008, pp.10-15

Supported Projects

Aydın Günbatır S., Project Supported by Higher Education Institutions, Deneyimli kimya öğretmenlerinin Hizmetiçi eğitim programı süresince bilimsel süreç becerilerinin incelenmesi, 2019 - 2019

Tarkın Çelikkıran A., Aydın S., Öztay E. S., Ekiz Kıran B., TUBITAK Project, Kimya Öğretmenlerine Yönelik Fetemm Eğitimi Ve Uygulamaları, 2018 - 2019

Aydın Günbatır S., Project Supported by Higher Education Institutions, Fen-Teknoloji-Mühendislik ve Matematik Yaklaşımı (FeTeMM) Temelli Seçmeli Dersin Öğretmen Adaylarının Kimya Alan Bilgisine Etkisi, 2018 - 2018

Aydın Günbatır S., Tarkın Çelikkıran A., Ekiz Kıran B., Kutucu E. S., Project Supported by Higher Education Institutions, Kimya Öğretmen Adaylarının FeTeMM Eğitimi Boyunca Alan Bilgisi FeTeMM Öğretimi Yönelimi ve Farkındalıklarının

İncelenmesi, 2017 - 2018

Ekiz Kıran B., Tüysüz M., Tarkın Çelikkıran A., Öztay E. S., Aydın S., TUBITAK Project, Kimya Öğretmenlerine Yönelik Sorgulayıcı Araştırmaya Dayalı Öğretim Etkinlikleri Ve Uygulamaları, 2017 - 2018

Aydın S., TUBITAK Project, Sorgulayıcı Araştırmaya Dayalı Öğretim Etkinlikleri ve Uygulamaları, 2017 - 2018

Aydın Günbatır S., Project Supported by Higher Education Institutions, Özel Öğretim Yöntemleri dersinin alan bilgisi ve modern yaklaşımlarla zenginleştirilmesi, 2016 - 2017

Tarkın Çelikkıran A., UZUNTİRYAKI KONDAKCI E., AKIN F. N., Aydın S., DEMİRDÖĞEN B., Project Supported by Higher Education Institutions, Exploring Preservice Teachers Use of Self Regulatory Processes in their Instructions, 2016 - 2016

Aydın Günbatır S., Project Supported by Higher Education Institutions, Öğretmen adaylarının tekno-pedagojik alan bilgileri seviyeleri, teknoloji kullanımları ve teknoloji kullanımlarına etki eden faktörlerin incelenmesi, 2014 - 2015

Activities in Scientific Journals

SPRINGER NATURE SOCIAL SCIENCE , Committee Member, 2022 - Continues

Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, Assistant Editor/Section Editor, 2015 - Continues

FEN BİLİMLERİ ÖĞRETİMİ DERGİSİ, Committee Member, 2015 - 2017

Memberships / Tasks in Scientific Organizations

NARST: National Association for Research in Science Teaching, Member, 2009 - Continues, United States Of America

Peer Reviews in Scientific Publications

CHEMISTRY EDUCATION RESEARCH AND PRACTICE, Journal Indexed in SSCI, February 2025

EUROPEAN JOURNAL OF EDUCATION, Journal Indexed in SSCI, January 2025

RESEARCH IN SCIENCE EDUCATION, Journal Indexed in SSCI, December 2024

SCIENCE AND EDUCATION, Journal Indexed in SSCI, December 2024

JOURNAL OF SCIENCE TEACHER EDUCATION, Journal Indexed in ESCI, November 2024

CHEMISTRY TEACHER INTERNATIONAL, Other Indexed Journal, March 2024

Sustainable Chemistry and Pharmacy, SCI Journal, February 2024

INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, Journal Indexed in SSCI, January 2024

SCIENCE AND EDUCATION, Journal Indexed in SSCI, January 2024

INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, Journal Indexed in SSCI, December 2023

RESEARCH IN SCIENCE & TECHNOLOGICAL EDUCATION, Journal Indexed in SSCI, December 2023

JOURNAL OF SCIENCE TEACHER EDUCATION, Journal Indexed in ESCI, November 2023

Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, National Scientific Refreed Journal, September 2023

INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, Journal Indexed in SSCI, September 2023

INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, Journal Indexed in SSCI, April 2023

EUROPEAN JOURNAL OF TEACHER EDUCATION, Journal Indexed in SSCI, March 2023

RESEARCH IN SCIENCE & TECHNOLOGICAL EDUCATION, Journal Indexed in SSCI, December 2022

TURKISH JOURNAL OF EDUCATION, Journal Indexed in ESCI, December 2022

SCIENCE AND EDUCATION, Journal Indexed in SSCI, November 2022

EGITIM VE BILIM-EDUCATION AND SCIENCE, Journal Indexed in SSCI, April 2022

RESEARCH IN SCIENCE & TECHNOLOGICAL EDUCATION, Journal Indexed in SSCI, April 2022

SN Social Sciences, Other Indexed Journal, February 2022

INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, Journal Indexed in SSCI, January 2022

Journal of Pedagogical Research, Other Indexed Journal, November 2021

STUDIES IN SCIENCE EDUCATION, Journal Indexed in SSCI, May 2021

HACETTEPE ÜNİVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, February 2021
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, Journal Indexed in SSCI, January 2021
EDUCATIONAL STUDIES, Journal Indexed in SSCI, October 2020
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, Journal Indexed in SSCI, August 2020
Fen Bilimleri Öğretimi Dergisi, Other Journals, June 2020
Eurasian Journal of Educational Research, Other Indexed Journal, June 2020
International Journal of Science Education , Journal Indexed in SSCI, March 2020
Science Education, Journal Indexed in SSCI, November 2019
Çağdaş Yönetim Bilimleri Dergisi, National Scientific Refreed Journal, October 2019
Educational Studies, Journal Indexed in SSCI, October 2019
International Journal of Science Education , Journal Indexed in SSCI, September 2019
Journal of Science Teacher Education, Other Indexed Journal, August 2019
YYÜ Eğitim Fakültesi Dergisi , National Scientific Refreed Journal, June 2019
International Journal of Science Education , Journal Indexed in SSCI, June 2019
FEN BİLİMLERİ ÖĞRETİMİ DERGİSİ, National Scientific Refreed Journal, April 2019
YYÜ Eğitim Fak Dergisi, National Scientific Refreed Journal, September 2018
YYÜ Eğitim Fak Dergisi, National Scientific Refreed Journal, September 2018
YYÜ Eğitim Fak Dergisi, National Scientific Refreed Journal, September 2018
YYÜ Eğitim Fak Dergisi, National Scientific Refreed Journal, September 2018
YYÜ Eğitim Fak Dergisi, National Scientific Refreed Journal, September 2018
International Journal of Science Education , Journal Indexed in SSCI, August 2018
Journal of Teacher Education, Journal Indexed in SSCI, May 2018
Fen Bilimleri Öğretimi Dergisi , National Scientific Refreed Journal, April 2018
Education & Science (Eğitim ve Bilim), Journal Indexed in SSCI, April 2018
Chemistry Education: Reserach & Practice, Journal Indexed in SSCI, January 2018
International journal of science education, Journal Indexed in SSCI, December 2017
Chemistry Education Research and Practice, Journal Indexed in SSCI, December 2017
International Journal of Science Education, Journal Indexed in SSCI, October 2017
International Journal of Science Education, Journal Indexed in SSCI, October 2017
Türk Eğitim Dergisi, National Scientific Refreed Journal, October 2017
International Journal of Science Education, Journal Indexed in SSCI, June 2017
Chemistry Education Research and Practice , Journal Indexed in SSCI, June 2017
International journal of Science Education , Journal Indexed in SSCI, May 2017
Teaching and Teacher Education, Journal Indexed in SSCI, April 2017
Chemistry Education Research and Practice , Journal Indexed in SSCI, February 2017
Educational Studies, Journal Indexed in SSCI, January 2017
International Journal of science Education , Journal Indexed in SSCI, December 2016
Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, National Scientific Refreed Journal, November 2016
Araştırma Temelli Etkinlik Dergisi (ATED), National Scientific Refreed Journal, July 2016
Chemistry Education Research and Practice , Journal Indexed in SSCI, June 2016
Eğitim ve Bilim (Education & Science), Journal Indexed in SSCI, March 2014
Journal of Science Teacher Education , Other Indexed Journal, February 2014
Yüksek Öğretim Dergisi (Journal of Higher Education) , National Scientific Refreed Journal, April 2013

Scientific Project Refereeing

TUBITAK Project, 1002 - Quick Support Program, December 2024

TUBITAK Project, March 2019

Scientific Research / Working Group Memberships

FEAD, Fen Eğitimi Araştırmaları Derneği, Turkey, <http://fead.org.tr/main/>, 2012 - Continues

NSTA, National Science Teacher Association, United States Of America, www.nsta.org, 2010 - Continues

Metrics

Publication: 115

Citation (WoS): 365

Citation (Scopus): 467

H-Index (WoS): 11

H-Index (Scopus): 12

Congress and Symposium Activities

16. Ulusal Fen Bilimleri ve Matematik Alanları Eğitimi Kongresi, Session Moderator, Edirne, Turkey, 2024

Türkiye'de ortaokul, lise ve lisans düzeyinde kimya eğitiminde sorunlar ve çözüm önerileri çalıştayı , Invited Speaker, Ankara, Turkey, 2023

7. National Chemistry Education Congress, Panelists, Nevşehir, Turkey, 2021

27th International Conference on educational Sciences, Session Moderator, Antalya, Turkey, 2018

ICQI-12th International Congress of Qualitative Inquiry, Session Moderator, Illinois, United States Of America, 2016

Scholarships

Narst Scholarship, Other International Organizations, 2012 - Continues

ESERA Conference Scholarship, Other International Organizations, 2011 - Continues

ECER- 2010- Vienna Conferenference Scholarship, Other International Organizations, 2009 - Continues

Awards

Aydın S., Bilim Akademisi Genç Bilim İnsanları Programı (BAGEP) 2019 Ödülü, Bilim Akademisi, April 2019

Aydın S., Research worth Reading, National Science Teachers Association (NSTA), April 2014

Non Academic Experience

University of Minnesota, Araştırmacı