

## Prof. ESEN KONDAKÇI

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAO-5558-2021

ScopusID: 55604263100

Yoksis Researcher ID: 163854

### Foreign Languages

English, C1 Advanced

### Research Areas

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

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2016 - Continues

Associate Professor, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2004 - 2015

Assistant Professor, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2004 - 2010

Research Assistant, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 1996 - 2004

### Academic and Administrative Experience

Middle East Technical University, Faculty of Education, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, 2004 - 2010

### Advising Theses

KONDAKÇI E., The nature of interplay among components of pedagogical content knowledge in reaction rate and chemical equilibrium topics of novice and experienced chemistry teachers, Doctorate, F.NUR(Student), 2017

KONDAKÇI E., Implementation of case-based instruction on electrochemistry at 11th grade level, Doctorate, A.TARKIN(Student), 2014

KONDAKÇI E., Implementation of self-regulatory instruction based on guided inquiry approach to promote students' achievement in solubility equilibrium and acids and bases, motivation, and learning strategies /, Doctorate, C.KADIOĞLU(Student), 2014

KONDAKÇI E., ÇAKIROĞLU J., Self-efficacy, learning strategies, task value and gender: predictors of 11th grade biology achievement, Postgraduate, A.Mutlu(Student), 2012

KONDAKÇI E., Development of pre-service chemistry teachers' pedagogical content knowledge for nature of science : an intervention study, Doctorate, B.Demirdöğen(Student), 2012

KONDAKÇI E., The contribution of chemistry self-efficacy and goal orientations to eleventh grade students' chemistry achievement, Postgraduate, A.Şenay(Student), 2010

KONDAKÇI E., The effect of case based learning on tenth grade students' understanding of human reproductive system and their perceived motivation, Postgraduate, S.Saral(Student), 2008

KONDAKÇI E., Implementation of conceptual change oriented instruction using hands on activities on tenth grade students' understanding of gases concepts, Postgraduate, İ.İpek(Student), 2007

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

- I. **Emotion regulation as a mediator of the influence of science teacher emotions on teacher efficacy beliefs**  
Uzuntiryaki-Kondakci E., Kirbulut Z. D., Sarıcı E., Oktay Ö.  
EDUCATIONAL STUDIES, vol.48, no.5, pp.583-601, 2022 (SSCI)
- II. **A Qualitative Examination of Science Teachers' Emotions, Emotion Regulation Goals and Strategies**  
Uzuntiryaki-Kondakci E., Kirbulut Z. D., Oktay Ö., Sarıcı E.  
Research in Science Education, vol.52, no.4, pp.1131-1155, 2022 (SSCI)
- III. **The role of the argumentation-based laboratory on the development of pre-service chemistry teachers' argumentation skills**  
Uzuntiryaki-Kondakci E., Tuysuz M., Sarıcı E., Soysal C., Kılınç S.  
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.43, no.1, pp.30-55, 2021 (SSCI)
- IV. **Implementation of self-regulatory instruction to promote students' achievement and learning strategies in the high school chemistry classroom**  
Kadioglu-Akbulut C., Uzuntiryaki-Kondakci E.  
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.22, no.1, pp.12-29, 2021 (SCI-Expanded)
- V. **Examining the mediating effect of science self-efficacy on the relationship between metavariabes and science achievement**  
Kirbulut Z. D., Uzuntiryaki-Kondakci E.  
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.41, no.8, pp.995-1014, 2019 (SSCI)
- VI. **The relationship between vicarious experience, social persuasion, physiological state, and chemistry self-efficacy: The role of mastery experience as a mediator**  
Capa-Aydin Y., Uzuntiryaki-Kondakci E., Ceylandağ R.  
PSYCHOLOGY IN THE SCHOOLS, vol.55, pp.1224-1238, 2018 (SSCI)
- VII. **The nature of the interplay among components of pedagogical content knowledge in reaction rate and chemical equilibrium topics of novice and experienced chemistry teachers**  
Akin F. N., Uzuntiryaki-Kondakci E.  
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.19, no.1, pp.80-105, 2018 (SCI-Expanded)
- VIII. **Implementation of case-based instruction on electrochemistry at the 11th grade level**  
Tarkin A., Uzuntiryaki-Kondakci E.  
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.18, no.4, pp.659-681, 2017 (SCI-Expanded)
- IX. **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., Aydin-Gunbatar S.  
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.18, no.1, pp.250-270, 2017 (SCI-Expanded)

- X. **Development of a metaconceptual awareness and regulation scale**  
Kirbulut Z. D., Uzuntiryaki-Kondakci E., Beeth M. E.  
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.38, no.13, pp.2152-2173, 2016 (SSCI)
- XI. **Development and Nature of Preservice Chemistry Teachers' Pedagogical Content Knowledge for Nature of Science**  
Demirdogen B., Hanuscin D. L., Uzuntiryaki-Kondakci E., Koseoglu F.  
RESEARCH IN SCIENCE EDUCATION, vol.46, no.4, pp.575-612, 2016 (SSCI)
- XII. **THE DEVELOPMENT OF THE META-AFFECTIVE TRAIT SCALE**  
Uzuntiryaki-Kondakci E., Kirbulut Z. D.  
PSYCHOLOGY IN THE SCHOOLS, vol.53, no.4, pp.359-374, 2016 (SSCI)
- XIII. **Closing the gap between beliefs and practice: Change of pre-service chemistry teachers' orientations during a PCK-based NOS course**  
Demirdogen B., Uzuntiryaki-Kondakci E.  
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.17, no.4, pp.818-841, 2016 (SCI-Expanded)
- XIV. **The nature and development of interaction among components of pedagogical content knowledge in practicum**  
Aydin S., Demirdogen B., AKIN F. N., Uzuntiryaki-Kondakci E., Tarkin A.  
TEACHING AND TEACHER EDUCATION, vol.46, pp.37-50, 2015 (SSCI)
- XV. **Predicting Chemistry Achievement through Task Value, Goal Orientations, and Self-Efficacy: A Structural Model**  
KONDAKCI E., Şenay A.  
CROATIAN JOURNAL OF EDUCATION-HRVATSKI CASOPIS ZA ODGOJ I OBRAZOVANJE, vol.17, no.3, pp.725-753, 2015 (SSCI)
- XVI. **Predicting Critical Thinking Skills of University Students through Metacognitive Self-Regulation Skills and Chemistry Self-Efficacy**  
KONDAKCI E., ÇAPA AYDIN Y.  
KURAM VE UYGULAMADA EGITIM BILIMLERI, vol.13, no.1, pp.666-670, 2013 (SSCI)
- XVII. **Providing a Set of Research-Based Practices to Support Preservice Teachers' Long-Term Professional Development as Learners of Science Teaching**  
Aydin S., Demirdogen B., Tarkin A., Kutucu S., EKİZ B., Akin F. N., TÜYSÜZ M., Uzuntiryaki E.  
SCIENCE EDUCATION, vol.97, no.6, pp.903-935, 2013 (SSCI)
- XVIII. **Pre-service chemistry teachers' pedagogical content knowledge of the nature of science in the particle nature of matter**  
BEKTAŞ O., Ekiz B., Tuysuz M., Kutucu E. S., Tarkin A., Uzuntiryaki-Kondakci E.  
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.14, no.2, pp.201-213, 2013 (SCI-Expanded)
- XIX. **Özdüzenleyici öğrenme stratejileri ölçeğinin ÖÖSÖ geliştirilmesi ve geçerlik analizi**  
KADIOĞLU C., UZUNTIRYAKI E., ÇAPA AYDIN Y.  
Egitim Ve Bilim-Education And Science, vol.36, pp.11-23, 2011 (SSCI)
- XX. **Interplay of motivational and cognitive strategies in predicting self-efficacy and anxiety**  
Aydin Y. C., Uzuntiryaki E., Demirdogen B.  
EDUCATIONAL PSYCHOLOGY, vol.31, no.1, pp.55-66, 2011 (SSCI)
- XXI. **Do Pre-service Chemistry Teachers Reflect their Beliefs about Constructivism in their Teaching Practices?**  
Uzuntiryaki E., BOZ Y., Kirbulut D., Bektas O.  
RESEARCH IN SCIENCE EDUCATION, vol.40, no.3, pp.403-424, 2010 (SSCI)
- XXII. **Development and Psychometric Evaluation of the High School Chemistry Self-Efficacy Scale**  
ÇAPA AYDIN Y., UZUNTIRYAKI E.  
EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT, vol.69, no.5, pp.868-880, 2009 (SCI-Expanded)
- XXIII. **Development and Validation of Chemistry Self-Efficacy Scale for College Students**  
UZUNTIRYAKI E., ÇAPA AYDIN Y.  
RESEARCH IN SCIENCE EDUCATION, vol.39, no.4, pp.539-551, 2009 (SSCI)

- XXIV. **Teacher self-regulation: examining a multidimensional construct**  
Capa-Aydin Y., SUNGUR S., Uzuntiryaki E.  
EDUCATIONAL PSYCHOLOGY, vol.29, no.3, pp.345-356, 2009 (SSCI)
- XXV. **Turkish prospective chemistry teachers' beliefs about chemistry teaching**  
Boz Y., Uzuntiryaki E.  
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.28, no.14, pp.1647-1667, 2006 (SSCI)
- XXVI. **Effect of conceptual change approach accompanied with concept mapping on understanding of solution concepts**  
Uzuntiryaki E., Geban Ö.  
INSTRUCTIONAL SCIENCE, vol.33, pp.311-339, 2005 (SSCI)

## Articles Published in Other Journals

- I. **3 x 2 Hedef Yönelimi Ölçeği'nin Türkçe'ye Uyarlanması**  
AKBULUT C., KONDAKÇI E.  
Bartın Üniversitesi Eğitim Fakültesi Dergisi, vol.8, no.3, pp.839-866, 2019 (Peer-Reviewed Journal)
- II. **Öğretmen adaylarının fen öğretimi özyeterliklerinin üstbilişsel öğrenme yönelimleri ve üstbilişsel özdüzenleme ile yordanması**  
KIRBULUT Z. D., KONDAKÇI E.  
İlköğretim Online, vol.16, pp.1316-1328, 2017 (Peer-Reviewed Journal)
- III. **Relationship between learning strategies and goal orientations: A multilevel analysis Öğrenme stratejileri ve hedef yönelimleri arasındaki ilişki: çok düzeyli veri analizi**  
Kadioglu C., Uzuntiryaki Kondakci E.  
Eğitim Araştırmaları - Eurasian Journal of Educational Research, no.56, 2014 (ESCI)
- IV. **Özyeterlik kaynakları ölçeği nin Türkçe ye uyarlanması**  
ÇAPA AYDIN Y., KONDAKÇI E., TEMLİ DURMUŞ Y., TARKIN A.  
İlköğretim Online, vol.12, pp.749-758, 2013 (Peer-Reviewed Journal)
- V. **Investigation of pre service teachers self efficacy beliefs and attitudes toward teaching profession through canonical analysis**  
TARKIN A., UZUNTİRYAKI E.  
Elementary Education Online, vol.11, pp.332-341, 2012 (Peer-Reviewed Journal)
- VI. **Exploring the sources of Turkish pre-service chemistry teachers' chemistry self-efficacy beliefs**  
Uzuntiryaki E.  
Australian Journal of Teacher Education, vol.33, no.6, pp.12-28, 2008 (ESCI)
- VII. **Turkish Pre Service Teachers Beliefs About the Importance of Teaching Chemistry**  
UZUNTİRYAKI E., BOZ Y.  
AUSTRALIAN JOURNAL OF TEACHER EDUCATION, vol.32, 2007 (ESCI)
- VIII. **Learning styles and high school students chemistry achievement**  
UZUNTİRYAKI E.  
Science Education International, vol.18, pp.25-37, 2007 (Peer-Reviewed Journal)
- IX. **Pre service teachers views about use of textbooks**  
UZUNTİRYAKI E., BOZ Y.  
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.31, pp.212-220, 2006 (Peer-Reviewed Journal)
- X. **Chemistry laboratory anxiety scale**  
AZİZOĞLU N., UZUNTİRYAKI E.  
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.30, pp.55-62, 2006 (Peer-Reviewed Journal)
- XI. **Effectiveness of instruction based on constructivist approach on students understanding of chemical bonding concepts**  
Uzuntiryaki E., Geban Ö.  
Science Education International, vol.15, pp.185-200, 2004 (Peer-Reviewed Journal)

- XII. **The relationship between gender differences and learning style preferences of pre service teachers**  
Uzuntiryaki E., Bilgin İ., Geban Ö.  
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.26, pp.182-187, 2004 (Peer-Reviewed Journal)
- XIII. **Students misconceptions on the concept of chemical equilibrium**  
Bilgin İ., Uzuntiryaki E., Geban Ö.  
Eğitim ve Bilim, vol.28, pp.10-17, 2003 (Peer-Reviewed Journal)
- XIV. **Freshman students misconceptions in chemical equilibrium**  
Özdemir A., Geban Ö., Uzuntiryaki E.  
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.18, pp.79-84, 2000 (Scopus)

## Books & Book Chapters

- I. **Öğretmen Özdüzenlemesi**  
ÇAPA AYDIN Y., KONDAKÇI E.  
in: Özdüzenleme: Öğrenmeden Öğretime Özdüzenleme Davranışlarının Gelişimi, Stratejiler ve Öneriler, Sakız, Gönül,  
Editor, Nobel, Ankara, pp.217-228, 2020
- II. **Öğretmen özdüzenlemesi**  
Çapa Aydın Y., Kondakçı E.  
in: Özdüzenleme: Öğrenmeden öğretime özdüzenleme davranışlarının gelişimi, stratejiler ve öneriler, Sakız G.,  
Editor, Nobel Yayınevi, Ankara, pp.218-230, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **Pre-service teacher self-efficacy in the context of practicum of teaching**  
Kondakçı E., Çapa Aydın Y., Kirbulut Z. D., Boran A.  
European Association for Research on Learning and Instruction (EARLI), Aachen, Germany, 12 - 16 August 2019,  
pp.267-268
- II. **Contribution of science teachers' efficacy beliefs to their emotions**  
KONDAKÇI E., KIRBULUT Z. D., OKTAY Ö., SARICI E.  
International Conference of Education, Research and Innovation (ICERI2017), 16 - 18 November 2017
- III. **Gender differences in the sources of high school students' chemistry self-efficacy beliefs**  
SARICI E., KONDAKÇI E.  
European Conference on Educational Research (ECER), 21 - 25 August 2017
- IV. **The Role of Metacognitive Guidance on Pre-service Teachers'xx Emotions During Practicum**  
KIRBULUT Z. D., KONDAKÇI E.  
International Conference on Education in Mathematics, Science Technology, 18 - 21 May 2017
- V. **Development Pre-service Chemistry Teachers'xx Argumentation Skills in Implementing Science Writing Heuristic at Chemistry Laboratory Subject/Problem**  
SOYSAL C., SARICI E., TÜYSÜZ M., KILINÇ S., KONDAKÇI E.  
NARST 90th Annual International Conference, San-Antonio, United States Of America, 22 - 25 April 2017, pp.154
- VI. **Contribution of the Argumentation-Based Laboratory to Pre-Service Chemistry Teachers'xx Microscopic Explanations of Chemistry Concepts.**  
KILINÇ S., TÜYSÜZ M., SARICI E., SOYSAL C., KONDAKÇI E.  
NARST 90th Annual International Conference, San-Antonio, United States Of America, 22 - 25 April 2017, pp.17-18
- VII. **RELATIONSHIP BETWEEN META-LEVEL VARIABLES AND SCIENCE ACHIEVEMENT OF SECONDARY SCHOOL STUDENTS**  
KIRBULUT Z. D., KONDAKÇI E.  
9th Annual International Conference of Education, Research and Innovation (iCERi), Sevilla, Spain, 14 - 16 November 2016, pp.5933

- VIII. **PRE-SERVICE TEACHERS' METACOGNITIVE SCIENCE LEARNING ORIENTATIONS AND THEIR USE OF LEARNING STRATEGIES: ARE THEY RELATED?**  
KIRBULUT Z. D., KONDAKÇI E.  
9th Annual International Conference of Education, Research and Innovation (iCERi), Sevilla, Spain, 14 - 16 November 2016, pp.5932
- IX. **Exploring Preservice Teachers Use of Self Regulatory Processes in their Instructions**  
KONDAKÇI E., DEMİRDÖĞEN B., AKIN F. N., TARKIN A., AYDIN S.  
EARLI SIG Conference, 20 - 22 June 2016
- X. **Investigating the Role of Students Goal Orientations on their Understanding of Chemical Equilibrium Concepts**  
SARICI E., KONDAKÇI E.  
NARST, 14 - 17 April 2016
- XI. **Search of Interplay Among PCK Components The Case of Novice and Experienced Chemistry Teachers**  
AKIN F. N., KONDAKÇI E.  
European Conference on Educational Research (ECER), 7 - 11 September 2015
- XII. **Investigating the Students Use of Self Regulatory Processes in Chemistry Classes**  
KADIOĞLU C., KONDAKÇI E.  
European Science Education Research Association (ESERA) Conference, 31 August - 04 September 2015
- XIII. **Örnek olaya dayalı kimya öğretiminin 11 sınıf öğrencilerinin tutum ve motivasyonlarına etkisinin incelenmesi**  
TARKIN A., KONDAKÇI E.  
7.Uluslararası Eğitim Araştırmaları Kongresi, 28 - 31 May 2015
- XIV. **The Relationship between Preservice Teacher Self regulation and PCK**  
TARKIN A., KONDAKÇI E., AKIN F. N., DEMİRDÖĞEN B., AYDIN S.  
Annual meeting of the National Association for Research in Science Teaching (NARST), 11 - 14 April 2015
- XV. **Predictors of Students Meta Affective Inclinations in Chemistry Tasks**  
KONDAKÇI E., KIRBULUT Z. D.  
Annual meeting of the National Association for Research in Science Teaching (NARST), 11 - 14 April 2015

## Supported Projects

- KONDAKÇI E., ÇAPA AYDIN Y., Kirbulut Z. D., BORAN A., Project Supported by Higher Education Institutions, Öğretmenlik Uygulaması Dersi: Öğretmen Adaylarının Algıları, 2018 - 2019
- KONDAKÇI E., Project Supported by Higher Education Institutions, KİMYA ÖĞRETMEN ADAYLARININ ÖZDÜZENLEME BECERİLERİNİN GELİŞTİRİLMESİ, 2017 - 2017
- KONDAKÇI E., Kirbulut Z. D., Project Supported by Higher Education Institutions, Lİse Öğrencilerinin Kimya Başarılarını Yordayan Değişkenler, 2016 - 2016
- KONDAKÇI E., KADIOĞLU C., Project Supported by Higher Education Institutions, 3 x 2 Hedef Yönelimi Anket Skorlarının Geçerlik Çalışması: Lise Örnekleme, 2014 - 2014
- KONDAKÇI E., AKIN F. N., Project Supported by Higher Education Institutions, DENEYİMLİ VE DENEYİMSİZ KİMYA ÖĞRETMENLERİNİN SAHİP OLDUĞU PEDAGOJİK ALAN BİLGİSİ: ÖĞRETMENLİK DENEYİMİ VE ÖĞRETMEN ÖZYETERLİĞİ ETKİSİ, 2013 - 2013
- KONDAKÇI E., Project Supported by Higher Education Institutions, Öğretmen Öz düzenlemesini Yordalayan Değişkenler., 2011 - 2011
- KONDAKÇI E., Project Supported by Higher Education Institutions, Lise Öğrencilerinin Kimya Özyeterlilik Düzeyleri Ve Kaynakları, 2010 - 2010
- KONDAKÇI E., Project Supported by Higher Education Institutions, Öğretmenlerin Ve Öğretmen Adaylarının Özyeterlilik Kaynakları Ve Yapılandırmacı Öğretime Yönelik Özyeterlilik İnançları, 2009 - 2009

## **Activities in Scientific Journals**

EGITIM VE BILIM, Assistant Editor/Section Editor, 2016 - Continues

## **Scientific Refereeing**

LEARNING AND INDIVIDUAL DIFFERENCES, Journal Indexed in SSCI, May 2021

## **Metrics**

Publication: 63

Citation (WoS): 598

Citation (Scopus): 756

H-Index (WoS): 15

H-Index (Scopus): 16

## **Non Academic Experience**

Orta Doğu Teknik Üniversitesi