

Prof. EMİNE ERDEM

Personal Information

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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya, Turkey 1993 - 1999

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Fen Bilimleri Eğitimi, Turkey 1988 - 1990

Undergraduate, Hacettepe University, Eğitim Fakültesi, Fen Bilimleri Eğitimi Kimya Öğretmenliği, Turkey 1983 - 1988

Foreign Languages

German, B2 Upper Intermediate

Research Areas

Social Sciences and Humanities, Education, Education in Natural Sciences, Education in Chemistry, Chemistry, Physical Chemistry, New Technologies in Polymer Chemistry, Natural Sciences

Academic and Administrative Experience

Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2016 - Continues

Courses

FME600 Özel Konular, Postgraduate, 2016 - 2017

KMÖ345 Ölçme ve Değerlendirme, Undergraduate, 2016 - 2017

KMÖ101 Genel Kimya, Undergraduate, 2016 - 2017

KMÖ303 Fizikokimya, Undergraduate, 2016 - 2017

KİÖ301 Fizikokimya, Undergraduate, 2016 - 2017

FME700 Özel Konular, Doctorate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Effect of Inquiry-Based Laboratory Application on Thinking Styles of Students**
ERDEM E., ALKAN F.
ANTHROPOLOGIST, vol.20, pp.369-376, 2015 (SCI-Expanded)
- II. **THE EFFECT OF SELF-DIRECTED LEARNING ON THE SUCCESS, READINESS, ATTITUDES TOWARDS LABORATORY SKILLS AND ANXIETY IN LABORATORY**

ALKAN F., ERDEM E.

HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, no.44, pp.15-26, 2013 (SSCI)

- III. **A STUDY ON DEVELOPING ATTITUDE SCALE TOWARDS LABORATORY SKILLS**
ALKAN F., ERDEM E.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, pp.22-31, 2012 (SSCI)
- IV. **EXAMINATION OF TEACHING APPLICATIONS IN TERMS OF SCHOOL AND UNIVERSITY COOPERATION: CHEMISTRY EDUCATION EXAMPLE**
ERDEM E., ERDOĞAN Ü. I.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, pp.167-176, 2012 (SSCI)
- V. **The effect of concept mapping on meaningful learning of atom and bonding**
ERDEM E., YILMAZ A., ÖZYALÇIN OSKAY Ö.
PROCEDIA SOCIAL AND BEHAVIOURAL SCIENCES, vol.1, pp.1586-1590, 2009 (SSCI)
- VI. **"A Study About The Effects of Chemistry Laboratory Applications On Students' Attitudes Towards Chemistry And Achievement",**
ÖZYALÇIN OSKAY Ö., ERDEM E., YILMAZ A.
e-Elektronik Sosyal Bilimler Dergisi (elektronik), vol.8, no.27, pp.222-321, 2009 (SSCI)
- VII. **PRE-SERVICE CHEMISTRY TEACHERS' BELIEFS ABOUT TEACHING AND THEIR PEDAGOGICAL CONTENT KNOWLEDGE**
OSKAY O. O., ERDEM E., YILMAZ A.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, no.36, pp.203-212, 2009 (SSCI)
- VIII. **EXAMINING STUDENTS' CONCEPT MAPPING AND PROBLEM-SOLVING BELIEFS IN GENERAL CHEMISTRY COURSE**
Erdem E.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, no.35, pp.111-122, 2008 (SSCI)

Articles Published in Other Journals

- I. **THE RELATIONSHIP BETWEEN SELF-EFFICACY AND ATTITUDES OF CHEMISTRY TEACHER CANDIDATES**
ERDEM E.
PROBLEMS OF EDUCATION IN THE 21ST CENTURY, vol.63, pp.62-70, 2015 (ESCI)
- II. **Self-regulated learning in constructivist approach based science laboratory practices and opinions on constructivist approach**
Erdem E., Dinçol Özgür S., Bayram Z., Özyalçın Oskay Ö., Şen Ş.
Problems of Education in the 21st Century, vol.59, pp.25-33, 2014 (ESCI)
- III. **Effect of Inquiry Based Learning Method on Students Motivation**
Bayram Z., Özyalçın Oskay Ö., Erdem E., Dinçol Özgür S., Şen Ş.
Procedia - Social and Behavioral Sciences, vol.106, pp.988-996, 2013 (Peer-Reviewed Journal)
- IV. **Determination of Preservice Chemistry Teachers Cognitive Structures as Relevant to Their Conceptual Understandings and Misconceptions of Greenhouse Gases and Their Effects**
ÖZYALÇIN OSKAY Ö., TEMEL S., DİNÇOL ÖZGÜR S., ERDEM E.
Eurasian Journal of Physics and Chemistry Education, vol.4, pp.30-55, 2012 (Peer-Reviewed Journal)
- V. **Determination of Preservice Chemistry Teachers Cognitive Structures via Flow Map Method and Their Knowledge Level on Greenhouse Gases and Their Effects Topic**
ÖZYALÇIN OSKAY Ö., TEMEL S., DİNÇOL ÖZGÜR S., ERDEM E.

- Eurasian Journal of Physics and Chemistry Education, vol.4, pp.30-45, 2012 (Peer-Reviewed Journal)
- VI. **Öğrencilerin Kavram Haritaları Geliştirme Becerilerinin Farklı Sınav Türlerindeki Başarılarıyla Karşılaştırılması**
ERDEM E., ATAV E., YILMAZ A., GÜCÜM E. B.
Çukurova Üniversitesi Eğitim Fakültesi Dergisi, vol.2, no.29, pp.85-90, 2006 (Peer-Reviewed Journal)
- VII. **Öğrencilerin Madde Konusunu Anlama Düzeyleri Kavram Yanılgıları Fen Bilgisine Karşı Tutumları Ve Mantıksal Düşünme Düzeylerinin Araştırılması**
ERDEM E., YILMAZ A., ATAV E., GÜCÜM E. B.
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.27, pp.74-82, 2004 (Peer-Reviewed Journal)
- VIII. **Enzimler Konusunun Anamlı Öğrenilmesinde Analogiler Oluşturmanın Etkisi**
ATAV E., ERDEM E., YILMAZ A., GÜCÜM E. B.
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.27, pp.21-29, 2004 (Peer-Reviewed Journal)
- IX. **Kimya eğitiminde kavram yanılgıları**
Morgil İ., ERDEM E., YILMAZ A.
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, 2003 (Peer-Reviewed Journal)
- X. **Öğrencilerin Elektrokimya Konusundaki Kavram Yanılgıları**
YILMAZ A., ERDEM E., İNCİ FATMA m.
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.23, pp.234-243, 2002 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Außerschulische Lernorte (Aslo) im Chemieunterricht: Museen Als Beispiel.**
ERDOĞAN Ü. I., DİNÇOL ÖZGÜR S., ERDEM E.
Gesellschaft für Didaktik der Chemie und Physik, GDGP 2019, 09 September 2019 - 12 September 2020
- II. **The Relationship Between Metacognitive Awareness, Teacher Self-Efficacy and Chemistry Competency Perceptions**
ALKAN F., ERDEM E.
3rd Cyprus International Conference on Educational Research (CY-ICER), Nicosia, CYPRUS, 30 January - 01 February 2014, vol.143, pp.778-783
- III. **Effect of Inquiry based Learning Method on Students Motivation**
BAYRAM Z., ÖZYALÇIN OSKAY Ö., ERDEM E., DİNÇOL ÖZGÜR S., ŞEN Ş.
4th International Conference on New Horizons in Education, 25 - 27 June 2013
- IV. **Fen Bilgisi Öğretmen adaylarının yapılandırıcı yaklaşıma yönelik görüşleri ve epistemolojik inançlarının incelenmesi**
ERDEM E., DİNÇOL ÖZGÜR S., BAYRAM Z., ÖZYALÇIN OSKAY Ö., ŞEN Ş.
International Perspectives on New Aspects of Learning in Teacher Education- Building Bridges Conference, Diyarbakır, Turkey, 2 - 04 October 2013
- V. **Investigating prospective science teachers' opinions about constructivist learning approach and scientific epistemological views**
ERDEM E., DİNÇOL ÖZGÜR S., BAYRAM Z., ÖZYALÇIN OSKAY Ö., ŞEN Ş.
International Perspectives on New Aspects of Learning in Teacher Education- Building Bridges Conference, 2 - 04 October 2013
- VI. **The Effect of Educational Technologie on Pre Service Teachers Self Efficacy**
ALKAN F., ERDEM E.
3rd World Conference on Information Technology, Barcelona, Spain, 14 - 16 November 2012, vol.3, pp.873-878
- VII. **Kimya eğitiminde mikro öğretim yönteminin etkililiği ve öğrenci görüşleri**
ERDEM E., ERDOĞAN Ü. I., ÖZYALÇIN OSKAY Ö., YILMAZ A.
X. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Turkey, 27 - 30 June 2012
- VIII. **Öğrencilerin bilimsel düşünme yeteneklerinin motivasyona etkisi**
ŞEN Ş., ERDEM E., YILMAZ A.

X. Ulusal Fen ve Matematik Eğitimi Kongresi, Niğde, Turkey, 27 - 30 June 2012, pp.185

- IX. **The relationship between teacher self-efficacy and competency perceptions of chemistry teacher candidates**
ALKAN F., ERDEM E.
Cyprus International Conference on Educational Research (CY-ICER), CYPRUS, 8 - 11 February 2012, vol.47, pp.1927-1932
- X. **Phänomenographie Eine qualitative Studie über die Wahrnehmung der Nanotechnologie**
ALKAN F., ERDEM E.
GDCh-Wissenschaftsforum Chemie 2011, Bremen, Germany, 4 - 07 September 2011
- XI. **Determination of relationship between prospective chemistry teachers' scientific epistemological views, information commitments and online searching achievement**
Oskay O. O., YILMAZ A., Dincol S., ERDEM E.
3rd World Conference on Educational Sciences (WCES), İstanbul, Turkey, 3 - 07 February 2011, vol.15, pp.3484-3489
- XII. **A study on developing candidate teachers' spatial visualization and graphing abilities**
ALKAN F., ERDEM E.
3rd World Conference on Educational Sciences (WCES), İstanbul, Turkey, 3 - 07 February 2011, vol.15, pp.3446-3450
- XIII. **The effect of elective courses on candidate teachers' level of social skills**
ALKAN F., ERDEM E.
3rd World Conference on Educational Sciences (WCES), İstanbul, Turkey, 3 - 07 February 2011, vol.15, pp.3451-3455
- XIV. **The attitudes of student teachers towards educational technologies according to their status of receiving teaching application lessons**
ALKAN F., ERDEM E.
2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.2523-2527
- XV. **Prospective chemistry teachers' learning styles and learning preferences**
OSKAY O. O., ERDEM E., AKKOYUNLU B., YILMAZ A.
2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.1362-1367
- XVI. **Kimya Öğretmen Adaylarının Eğitim Teknolojilerine Yönelik Tutumlarının ncelenmesi**
ALKAN F., ERDEM E.
3. Uluslararası Bilgisayar ve Öğretim Teknolojileri Sempozyumu, Trabzon, Turkey, 7 - 09 October 2009, pp.306-310
- XVII. **The effect of concept mapping on meaningful learning of Atom and bonding**
ERDEM E., YILMAZ A., OSKAY O. O.
World Conference on Educational Sciences, Nicosia, CYPRUS, 4 - 07 February 2009, vol.1, pp.1586-1590
- XVIII. **The Effect of Developing Analogies for Meaningful Learning of the Subject of Enzymes**
ATAV E., ERDEM E., YILMAZ A., GÜCÜM E. B.
XI. IOESE Symposium, International Organization for Science and Technology Education, 25-30 July, Lublin, Poland, Lublin, Poland, 25 - 30 July 2004, pp.71-83
- XIX. **The Relationship Among the Logical Thinking Ability Attitude Towards Science and Level of Understanding the Concept of Matter of the Freshmen Students**
YILMAZ A., ERDEM E., ATAV E., GÜCÜM E. B.
XI. IOESE Symposium, International Organization for Science and Technology Education, 25-30 July, Lublin, Poland, Lublin, Poland, 25 - 30 July 2004, pp.237-238
- XX. **The Comparison of the Different Exam Types to Evaluate the Concept Map Developing Skills**
ERDEM E., ATAV E., YILMAZ A., GÜCÜM E. B.
XI. IOESE Symposium, International Organization for Science and Technology Education, 25-30 July, Lublin, Poland, Lublin, Poland, 25 - 30 July 2004, pp.251-252

Supported Projects

ERDEM E., Project Supported by Higher Education Institutions, KİMYA DERSİNDE AKILLI TAHTA UYGULAMALARININ ÖĞRENCİ MOTİVASYONUNA VE TUTUMUNA ETKİSİNİN İNCELENMESİ, 2016 - 2016

ERDEM E., Project Supported by Higher Education Institutions, İletken Poli(o-tolidin) kil nanokompozitlerin hazırlanması ve karakterizasyonu, 2015 - 2016

ERDEM E., Çiftçi Ç., Project Supported by Higher Education Institutions, 5E Öğrenme Modelinin Öğrencilerin Bilimsel Süreç Becerilerine Etkisinin İncelenmesi, 2015 - 2016

ERDEM E., Project Supported by Higher Education Institutions, FEN EĞİTİMİNDE AKILLI TAHTA UYGULAMALARINA İLİŞKİN ÖĞRETMEN GÖRÜŞLERİ, 2015 - 2015

Metrics

Publication: 38

Citation (WoS): 36

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