

Prof. GÜLTEKİN ÇAKMAKCI

Personal Information

Email: cakmakci@hacettepe.edu.tr

Education Information

Doctorate, University Of Leeds, Eğitim Fakültesi, United Kingdom 2002 - 2005

Post Graduate, University Of York, Eğitim Fakültesi, United Kingdom 2000 - 2001

Under Graduate, Ankara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1992 - 1996

Foreign Languages

English, C1 Advanced

Research Areas

Social Sciences and Humanities, Education, Elementary School Education, Teacher Training in Natural Sciences, Education in Natural Sciences, Education in Chemistry

Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Eğitim Fakültesi, Eğitim Fakültesi, 2018 - Continues

Associate Professor, Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2012 - 2018

Assistant Professor, Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2010 - 2012

Lecturer, Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2005 - 2010

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The Ultimate Beneficiaries of Continuing Professional Development Programs: Middle School Students' Nature of Science Views**
ÖZER F., DOĞAN N., YALAKI Y., İREZ O. S. , ÇAKMAKCI G.
Research In Science Education, 2019 (Journal Indexed in SSCI)
- II. **Teachers' Beliefs About Learning and Teaching Nature of Science: Professional Development Program**
Kartal E. E. , Dogan N., Irez S., ÇAKMAKCI G., YALAKI Y.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.44, no.198, pp.291-307, 2019 (Journal Indexed in SSCI)
- III. **Improving science teachers' nature of science views through an innovative continuing professional development program**
Kartal E. E. , Cobern W. W. , Dogan N., Irez S., ÇAKMAKCI G., YALAKI Y.
INTERNATIONAL JOURNAL OF STEM EDUCATION, vol.5, 2018 (Journal Indexed in SCI)
- IV. **Promoting Pre-service Teachers' Ideas About Nature of Science Through Science-Related Media Reports**
ÇAKMAKCI G., YALAKI Y.

PROFESSIONAL DEVELOPMENT FOR INQUIRY-BASED SCIENCE TEACHING AND LEARNING, vol.5, pp.137-161, 2018 (Journal Indexed in SCI)

- V. **Impact of initiatives to implement science inquiry: a comparative study of the Turkish, Israeli, Swedish and Czech science education systems**
Heinz J., Enghag M., Stuchlikova I., ÇAKMAKCI G., Peleg R., Baram-Tsabari A.
CULTURAL STUDIES OF SCIENCE EDUCATION, vol.12, no.3, pp.677-708, 2017 (Journal Indexed in SSCI)
- VI. **INTEGRATING ENGINEERING CONCEPTS AND PRACTICES INTO SCIENCE EDUCATION Challenges and Opportunities**
Aydeniz M., ÇAKMAKCI G.
SCIENCE EDUCATION: AN INTERNATIONAL COURSE COMPANION, pp.221-232, 2017 (Journal Indexed in SCI)
- VII. **Discourse Patterns and Communicative Approaches for Teaching Nature of Science**
Kaya G., Şardağ M., ÇAKMAKCI G., Dogan N., Irez S., YALAKI Y.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.41, no.185, pp.83-99, 2016 (Journal Indexed in SSCI)
- VIII. **The Influence of Documentary Films on 8th Grade Students' Views about Nature of Science**
Kapucu M. S., ÇAKMAKCI G., AYDOĞDU C.
EDUCATIONAL SCIENCES-THEORY & PRACTICE, vol.15, no.3, pp.797-808, 2015 (Journal Indexed in SSCI)
- IX. **Investigating students' interest in chemistry through self-generated questions**
Demirdogen B., ÇAKMAKCI G.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.15, no.2, pp.192-206, 2014 (Journal Indexed in SCI)
- X. **The Generalizability of Students' Interests in Biology Across Gender, Country and Religion**
Hagay G., Baram-Tsabari A., Ametler J., ÇAKMAKCI G., Lopes B., Moreira A., Pedrosa-de-Jesus H.
RESEARCH IN SCIENCE EDUCATION, vol.43, no.3, pp.895-919, 2013 (Journal Indexed in SSCI)
- XI. **Investigating Turkish Primary School Students' Interest in Science by Using Their Self-Generated Questions**
ÇAKMAKCI G., SEVINDIK H., PEKTAS M., Uysal A., Kole F., Kavak G.
RESEARCH IN SCIENCE EDUCATION, vol.42, no.3, pp.469-489, 2012 (Journal Indexed in SSCI)
- XII. **Consistency of Students' Ideas about the Concept of Rate across Different Contexts**
BEKTAŞLI B., ÇAKMAKCI G.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.36, no.162, pp.273-287, 2011 (Journal Indexed in SSCI)
- XIII. **PROMOTING AN INCLUSIVE IMAGE OF SCIENTISTS AMONG STUDENTS: TOWARDS RESEARCH EVIDENCE-BASED PRACTICE**
ÇAKMAKCI G., TOSUN O., TURGUT S., ORENLER S., SENGUL K., TOP G.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.9, no.3, pp.627-655, 2011 (Journal Indexed in SSCI)
- XIV. **Designing and evaluating an evidence-informed instruction in chemical kinetics**
ÇAKMAKCI G., AYDOĞDU C.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.12, no.1, pp.15-28, 2011 (Journal Indexed in SCI)
- XV. **Identifying Alternative Conceptions of Chemical Kinetics among Secondary School and Undergraduate Students in Turkey**
Çakmakci G.
JOURNAL OF CHEMICAL EDUCATION, vol.87, no.4, pp.449-455, 2010 (Journal Indexed in SCI)
- XVI. **Preparing Teachers as Researchers: Evaluating the Quality of Research Reports Prepared by Student Teachers**
Çakmakci G.
EGITIM ARASTIRMALARI-EURASIAN JOURNAL OF EDUCATIONAL RESEARCH, vol.9, no.35, pp.39-56, 2009 (Journal Indexed in SSCI)
- XVII. **Students' ideas about reaction rate and its relationship with concentration or pressure**
Çakmakci G., LEACH J., DONNELLY J.
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.28, no.15, pp.1795-1815, 2006 (Journal Indexed in SSCI)

Articles Published in Other Journals

- I. **Measuring Nature of Science Views of Middle School Students**
YALAKI Y., DOĞAN N., İREZ S., DOĞAN N., ÇAKMAKCI G., KARA B. E.
INTERNATIONAL JOURNAL OF ASSESSMENT TOOLS IN EDUCATION, vol.6, no.3, pp.461-475, 2019 (Journal Indexed in ESCI)
- II. **A five-level design for evaluating professional development programs: Teaching and learning about nature of science**
KARTAL E. E., DOĞAN N., İREZ S., ÇAKMAKCI G., YALAKI Y.
ISSUES IN EDUCATIONAL RESEARCH, vol.29, no.2, pp.402-426, 2019 (Journal Indexed in ESCI)
- III. **The Impact of a Professional Development Program on Science Teachers' Classroom Performance: Teaching Nature of Science**
TEKİN G., DOĞAN N., İREZ S., YALAKI Y., ÇAKMAKCI G.
PAMUKKALE UNIVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ-PAMUKKALE UNIVERSITY JOURNAL OF EDUCATION, no.46, pp.307-327, 2019 (Journal Indexed in ESCI)
- IV. **Assessing Teachers' Competencies in Identifying Aspects of Nature of Science in Educational Critical Scenarios**
İREZ O. S., HAN Ç., DOĞAN N., ÇAKMAKCI G., YALAKI Y., ERDAŞ KARTAL E.
Science Education International, vol.29, pp.274-284, 2018 (Refereed Journals of Other Institutions)
- V. **Öğretmen Mesleki Gelişim Programına Genel Bir Bakış: Model, Süreç, Engel, Teori ve Uygulama**
ÖZER F., ERDAŞ KARTAL E., DOĞAN N., ÇAKMAKCI G., İREZ O. S., YALAKI Y.
Amasya Üniversitesi Eğitim Fakültesi Dergisi, vol.7, pp.63-97, 2018 (Other Refereed National Journals)
- VI. **A Contextualized Nature of Science Classroom Activity: Junk Food!**
ÖZER F., DOĞAN N., ÇAKMAKCI G., İREZ O. S., YALAKI Y.
Journal of Inquiry-Based Activities, vol.7, pp.93-107, 2017 (Refereed Journals of Other Institutions)
- VII. **Promoting Pre-service Teachers' Ideas about Nature of Science through Educational Research Apprenticeship**
ÇAKMAKCI G.
AUSTRALIAN JOURNAL OF TEACHER EDUCATION, vol.37, no.2, pp.114-135, 2012 (Journal Indexed in ESCI)
- VIII. **A conversation with Michael R Matthews The contribution of history and philosophy of science to science teaching and research**
YALAKI Y., ÇAKMAKCI G.
Eurasia Journal of Mathematics, Science & Technology Education, vol.6, pp.287-309, 2010 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Promoting pre-service teachers' ideas about nature of science through science-related media reports**
ÇAKMAKCI G., YALAKI Y.
in: Professional development for inquiry-based science teaching and learning, Olia E. Tsivitanidou, Peter Gray, Eliza Rybska, Lucas Louca, Costas P. Constantinou, Editor, Springer, London/Berlin, Dordrecht, pp.137-161, 2018
- II. **SAILS Sorgulama ve Değerlendirme Üniteleri**
ÇAKMAKCI G., KAYA G., ŞARDAĞ M., YALAKI Y., AKKOYUNLU B.
Eğiten Kitap, 2015
- III. **Promoting student teachers ideas about nature of science through popular media**
ÇAKMAKCI G., YALAKI Y.
NTNU, 2012
- IV. **Proje Tabanlı Öğrenme**
KORKMAZ H., ÇAKMAKCI G.

Refereed Congress / Symposium Publications in Proceedings

- I. **Galen'den Harvey'e Bilimsel Paradigma Değişimi: İçerik Temelli Bir Etkinlik Örneği**
Erdaş Kartal E., Doğan N., Özer F., İrez O. S. , Çakmakçı G., Yalaki Y.
13. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Denizli, Turkey, 4 - 06 October 2018
- II. **A new evaluation model for assessing effectiveness of a large scale professional development program about nature of science**
ERDAŞ KARTAL E., DOĞAN N., İREZ O. S. , ÇAKMAKCI G., YALAKI Y., ALTINER Z. B. , KÖYLÜ Z. N.
14th International history, Philosophy, and Science Teaching (IHPST) Biennial Conference, 4 - 07 July 2017
- III. **A new evaluation model for assessing effectiveness of a large-scale continuing professional development program about nature of science. Paper presented at the annual meeting of the**
ERDAŞ KARTAL E., DOĞAN N., İREZ O. S. , ÇAKMAKCI G., YALAKI Y.
International History, Philosophy, and Science Teaching (IHPST) Biennial Conference, Ankara, Turkey, 4 - 07 July 2017, vol.14
- IV. **Uzun süreli mesleki gelişim programının bilimin doğasının öğrenimi ve öğretimi konusundaki öğretmen inançlarına etkisi**
ERDAŞ KARTAL E., DOĞAN N., İREZ O. S. , Tekin G., ÇAKMAKCI G., YALAKI Y.
7th International Congress of Research in Education (ULEAD), Çanakkale, Turkey, 15 - 18 April 2017
- V. **Science News Hub Public Engagement With STEM**
ÇAKMAKCI G., YILDIZ B., KAYA G., ŞARDAĞ M., İDİN Ş., DÖNMEZ İ.
2nd Conference on International Approaches to Scaling-up Professional Development in Maths and Science Education, 7 - 08 November 2016
- VI. **Bilimin doğası görüşleri testi BİLTEST**
YALAKI Y., İREZ O. S. , DOĞAN N., ÇAKMAKCI G.
Ulusal Fen Bilimleri ve Matematik Eğitimi Konferansı, Adana, Turkey, 11 - 14 September 2014
- VII. **Geniş kapsamlı bir hizmet içi eğitimi projesinin öğretmenlerin sınıf içi ölçme değerlendirme uygulamalarına etkisi**
BALA G., YALAKI Y., İREZ O. S. , DOĞAN N., ÇAKMAKCI G.
Ulusal Fen Bilimleri ve Matematik Eğitimi Konferansı, Adana, Turkey, 11 - 14 September 2014
- VIII. **Impact of a Large Scale Professional Development Project on Middle School Students Views of NOS**
YALAKI Y., İREZ O. S. , DOĞAN N., ÇAKMAKCI G., BALA G., ÖZER F., GUNSEVER G.
National Association for Research in Science Teaching Annual Conference, PITTSBURGH, United States Of America, 30 March - 02 April 2014

Supported Projects

- ÇAKMAKCI G., TUBITAK Project, Eğitim Bilimleri Alanlarında Lisansüstü Öğrenim Gören Öğrenciler İçin Proje Danışmanlığı Eğitimi, 2017 - 2017
- ÇAKMAKCI G., YILDIZ B., KAYA G., ŞARDAĞ M., Project Supported by Higher Education Institutions, 2. stem öğretmenler konferansı ve stem & makers festexpo Türkiye 2016, 2016 - 2017
- ÇAKMAKCI G., Project Supported by Higher Education Institutions, Öğretmen Adaylarının Bilimin Doğası Hakkındaki Görüşlerini Desteklemek İçin Tarihi Olaylar Hakkındaki Kısa Videoların Kullanımı, 2016 - 2017
- ÇAKMAKCI G., Project Supported by Higher Education Institutions, Öğrencilerin biyoloji alanındaki ilgilerinin cinsiyet, ülke ve din açısından genellenabilirliği, 2016 - 2016
- ÇAKMAKCI G., Project Supported by Higher Education Institutions, Bilim Teknoloji Mühendislik ve Matematik Uygulamaları - STEM Practices, 2015 - 2016
- ÇAKMAKCI G., YILDIZ B., KAYA G., ŞARDAĞ A. G. M. , Project Supported by Higher Education Institutions, 1. stem

öğretmenler konferansı ve stem & makers fest/expo Türkiye 2015, 2015 - 2016

ÇAKMAKCI G., H2020 Project, Mathematics and science for life MaScil, 2013 - 2016

ÇAKMAKCI G., TUBITAK Project, Bilimin Doğasının Öğretimi Konusunda Öğretmenin Mesleki Gelişiminin Süreç Boyunca Desteklenmesi BİDOMEĞ, 2012 - 2016

ÇAKMAKCI G., TUBITAK Project, Akyaka Doğa Bilim Kampı, 2008 - 2009

Citations

Total Citations (WOS):197

h-index (WOS):8