

## Prof. JALE ÇAKIROĞLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-6451-2019

ScopusID: 14009728400

Yoksis Researcher ID: 3620

### Education Information

Doctorate, Indiana University Bloomington, Program Geliştirme Ve Fen Eğitimi, United States Of America 1996 - 2000

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Fen Bilimleri Eğitimi (Dr), Turkey 1990 - 1993

Undergraduate, Middle East Technical University, Faculty of Education, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, Turkey 1985 - 1990

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Social Sciences and Humanities, Education, Education in Natural Sciences, Education in Biology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2012 - Continues

Associate Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2006 - 2012

Assistant Professor, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2002 - 2006

Lecturer, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2001 - 2002

Research Assistant, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 1990 - 2001

### Academic and Administrative Experience

YÖK Denklik Bilim Kurulu Üyeliği, Middle East Technical University, Faculty of Education, Mathematics and Science

Education, 2017 - Continues

Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2019 - 2020

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2018 - 2018

## Courses

Practice Teaching in Elementary Education, Undergraduate, 2018 - 2019

Project in Elementary Science & Mathematics, Undergraduate, 2018 - 2019

School Experience, Undergraduate, 2018 - 2019

## Advising Theses

ÇAKIROĞLU J., Design and implementation of a graduate course for development of technological pedagogical content knowledge, Doctorate, G.ÇETİNKAYA(Student), 2022

ÇAKIROĞLU J., Investigation of science teachers' nature of engineering views, Postgraduate, N.İRDEM(Student), 2022

ÇAKIROĞLU J., The effect of engineering design-based science instruction on 6th-grade students' astronomy understandings and engineer career interests, Postgraduate, P.BAŞPINAR(Student), 2022

YILMAZ TÜZÜN Ö., ÇAKIROĞLU J., The relationship between eighth grade students' nature of science understanding and their informal reasoning on socioscientific issues, Postgraduate, N.FATIMA(Student), 2021

ÇAKIROĞLU J., Investigating science teachers' technological pedagogical content knowledge (TPACK) competencies: A mixed method study, Postgraduate, M.TANRISEVDİ(Student), 2021

Sungur S., Çakiroğlu J., Investigating science teachers' views of the nature of science based on the reconceptualized family resemblance approach to nos, Postgraduate, Z.MERVE(Student), 2021

Çakiroğlu J., Developing seventh grade students' scientific epistemological beliefs, science process skills and lake ecosystem understandings through Lake Eymir Education Program, Postgraduate, M.BÜŞRA(Student), 2019

Çakiroğlu J., Pre-service science teachers' tpack efficacy levels and technology integration quality: Application of tpack-iddirr model, Postgraduate, İ.ATAKAN(Student), 2019

Çakiroğlu J., Investigation of preservice science teachers' nature of science understanding and decision making on socioscientific issue through the fractal model, Doctorate, E.ECE(Student), 2019

Çakiroğlu J., Köseoğlu F., A STUDY ON PROFESSIONAL DEVELOPMENT TOWARD SCIENCE CENTERS: CHANGE IN SCIENCE TEACHERS' AWARENESS ABOUT SCIENCE CENTERS AND WAYS OF CONDUCTING SCIENCE CENTER VISITS, Doctorate, S.TAHANCALIO(Student), 2019

Çakiroğlu J., THE EFFECTS OF ENGINEERING DESIGN BASED INSTRUCTION ON 7TH GRADE STUDENTS' NATURE OF ENGINEERING VIEWS AND ATTITUDES TOWARDS STEM, Postgraduate, B.AYDOĞAN(Student), 2019

ÇAKIROĞLU J., Pre-service science teachers' TPACK efficacy levels and technology integration quality: application of TPACK-IDDIRR model, Postgraduate, İ.Atakan(Student), 2019

ÇAKIROĞLU J., Developing seventh grade students' scientific epistemological beliefs, science process skills and lake ecosystem understandings through Lake Eymir education program, Postgraduate, M.Büşra(Student), 2019

ÇAKIROĞLU J., The Effects of engineering design based instruction on 7th grade students' nature of engineering views and attitudes towards STEM, Postgraduate, B.Aydoğan(Student), 2019

Çakiroğlu J., Öztekin C., Exploring gifted students' science homework self-regulation skills., Postgraduate, N.BERBER(Student), 2019

ÇAKIROĞLU J., Changes in a science teacher's pedagogical practices and beliefs following ABI: onsite ongoing professional support, Postgraduate, F.Nur(Student), 2018

ÇAKIROĞLU J., Changes in a science teacher's pedagogical practices and beliefs following abi: Onsite ongoing professional support, Postgraduate, F.NUR(Student), 2018

ÇAKIROĞLU J., Exploring 6th grade students' scientific epistemological beliefs and metacognitive awareness regarding

achievement level, Doctorate, Y.BOĞAR(Student), 2018

ÇAKIROĞLU J., Examination of topic-specific nature of pedagogical content knowledge: a case of science teacher of gifted students /, Doctorate, B.ÇAYLAK(Student), 2017

ÖZTEKİN C., ÇAKIROĞLU J., Early childhood teachers' science teaching intentions and behaviours: an application of the theory of planned behaviour, Doctorate, G.Özcan(Student), 2016

ÇAKIROĞLU J., Analyzing collective efficacy of preservice science teachers in science methods course, Doctorate, V.ATASOY(Student), 2016

ÖZTEKİN C., ÇAKIROĞLU J., Early childhood teachers' science teaching intentions and behaviours: An application of the theory of planned behaviour, Doctorate, G.ÖZCAN(Student), 2016

ÖZTEKİN C., ÇAKIROĞLU J., Investigating the effects of science writing heuristic approach on eight grade students' achievement, metacognition and epistemological beliefs, Postgraduate, S.TUĞÇE(Student), 2016

ÇAKIROĞLU J., Investigating questioning patterns of teachers through their pedagogical progression in argument-based inquiry classrooms, Postgraduate, B.KILIÇ(Student), 2016

ÇAKIROĞLU J., Middle school students' reasoning patterns and comprehensions about pseudoscientific applications related to crystals, Doctorate, D.METİN(Student), 2015

ÇAKIROĞLU J., The investigation of pedagogical content knowledge of teachers: The case of teaching genetics, Doctorate, M.AYDEMİR(Student), 2014

ÇAKIROĞLU J., ERTEPINAR H., Science teachers' theory and pedagogy of argumentation in science education: design, implementation, and evaluation of a graduate course through educational design research, Doctorate, Y.Özdem(Student), 2014

ÇAKIROĞLU J., Development of pre-service science teachers' nature of science views and nature of science instructional planning within a contextualized explicit reflective approach, Doctorate, K.BİLİCAN(Student), 2014

ÇAKIROĞLU J., Science teachers' theory and pedagogy of argumentation in science education: Design, implementation, and evaluation of a graduate course through educational design research, Doctorate, Y.ÖZDEM(Student), 2014

ÇAKIROĞLU J., Conceptual, structural and epistemic aspects of science teachers' argumentation practices in the context of evolutionary theory, Postgraduate, E.YEŞİLYURT(Student), 2014

ÇAKIROĞLU J., The interrelation between pre-service science teachers' conceptions of teaching and learning, learning approaches and self-efficacy beliefs, Postgraduate, S.SAÇICI(Student), 2013

Olgan R., Çakiroğlu J., Environmental education in early childhood teacher training programs: Perceptions and beliefs of pre-service teachers, Postgraduate, Z.GÜNER(Student), 2013

ÇAKIROĞLU J., Investigation of the relationship between pre-service science teachers' understandings of nature of science and their personal characteristics, Postgraduate, G.ÇETİNKAYA(Student), 2012

ÇAKIROĞLU J., The Effect of using metacognitive strategies embedded in explicit reflective nature of science instruction on the development of pre-service science teachers/, Postgraduate, A.Baraz(Student), 2012

ÇAKIROĞLU J., The effect of using metacognitive strategies embedded in explicit-reflective nature of science instruction on the development of pre-service science teachers' understandings of nature of science, Postgraduate, A.BARAZ(Student), 2012

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

ÇAKIROĞLU J., Science teachers' perceptions of the elementary science and technology curriculum, Postgraduate, E.ECE(Student), 2011

ÇAKIROĞLU J., The influence of argumentation based instruction on sixth grade students' attitudes toward science, conceptual understandings of physical and chemical change topic and argumentativeness, Postgraduate, B.ZÜHAL(Student), 2011

ÖZDEMİR Ö. F., ÇAKIROĞLU J., Relation of cognitive and motivational variables with students' human circulatory system achievement in traditional and learning cycle classrooms, Doctorate, Ö.SADİ(Student), 2010

ÇAKIROĞLU J., Investigating pre-service science teachers' quality of written argumentations about socio-scientific issues in relation to epistemic beliefs and argumentativeness, Postgraduate, E.İŞBİLİR(Student), 2010

GEBAN Ö., ÇAKIROĞLU J., The effect of explicit embedded reflective instruction on nature of science understandings, scientific literacy levels and achievement on cell unit, Doctorate, M.SERDAR(Student), 2010

ÇAKIROĞLU J., An investigation of pre-service elementary science teachers' scientific literacy level and their attitudes

towards science, Postgraduate, Ö.ULUTAŞ(Student), 2009

ÇAKIROĞLU J., The nature of pre-service science teachers' argumentation in inquiry-oriented laboratory context, Postgraduate, Y.ÖZDEM(Student), 2009

ÇAKIROĞLU J., Öğrenme halkası modelinin lise öğrencilerinin nükleik asitler ve protein sentezi konularını anlamalarına, motivasyonlarına ve öğrenme stratejilerine etkisinin incelenmesi, Doctorate, Ö.SAYGIN(Student), 2009

ÇAKIROĞLU J., Exploring representation of nature of science aspects in science textbooks, Postgraduate, Y.YAMAK(Student), 2009

ÇAKIROĞLU J., A Study on the predictors of teachers' sense of efficacy beliefs, Postgraduate, G.GÜR(Student), 2008

ÇAKIROĞLU J., Professional development of preservice biology teachers through reflective thinking, Doctorate, A.SAVRAN(Student), 2008

ÇAKIROĞLU J., A study on the predictors of teachers' sense of efficacy beliefs, Postgraduate, G.Gür(Student), 2008

ÇAKIROĞLU J., ÖZTEKİN C., The effect of 5e learning cycle approach on sixth grade students understanding of cell concept, attitude toward science and scientific epistemological beliefs, Postgraduate, D.KAYNAR(Student), 2007

ÇAKIROĞLU J., ÖZTEKİN C., Scientific epistemological beliefs, perceptions of constructivist learning environment and attitude towards science as determinants of students approaches to learning, Postgraduate, K.ÖZKAL(Student), 2007

ÇAKIROĞLU J., The effect of 5E learning cycle approach on sixth grade students' understanding of cell concept, attitude toward science and scientific epistemological beliefs, Postgraduate, D.Kaynar(Student), 2007

SUNGUR S., ÇAKIROĞLU J., Examining 8th grade students' perception of learning environment of science classrooms in relation to motivational beliefs and attitudes, Postgraduate, N.ARISOY(Student), 2007

ÇAKIROĞLU J., ÖZTEKİN C., Examining middle school students' understanding of the nature of science, Postgraduate, M.ÇELİKDEMİR(Student), 2006

ÇAKIROĞLU J., Students perceptions' of their science teachers' interpersonal behaviour in two countries : Turkey and te Netherlands, Doctorate, S.Telli(Student), 2006

SUNGUR S., ÇAKIROĞLU J., Predicting academic achievement with cognitive and motivational variables, Postgraduate, N.YUMUŞAK(Student), 2006

ÇAKIROĞLU J., ÖZTEKİN C., The effect of gender and reasoning ability on the students' understanding of ecological concepts and attitude towards science, Postgraduate, H.SOYLU(Student), 2006

ÇAKIROĞLU J., Preservice science teachers perception of profession with metaphorical images and reasons of choosing teaching as a profession., Postgraduate, E.Güzel(Student), 2005

ÇAKIROĞLU J., The effects of hands-on activity enriched instruction on sixth grade students' achievement and attitudes towards science, Postgraduate, Ö.TÜRK(Student), 2005

ÇAKIROĞLU J., Improving 8th grade students' understanding of photosynthesis and respiration in plants by using 5E learning cycle and conceptual change text, Postgraduate, S.Balcı(Student), 2005

ÇAKIROĞLU J., ÖZTEKİN C., Improving 8th grade students' understanding of photosynthesis and respiration in plants by using 5E learning cycle and conceptual change text, Postgraduate, S.BALCI(Student), 2005

GEBAN Ö., ÇAKIROĞLU J., Preservice science teachers perception of profession with metaphorical images and reasons of choosing teaching as a profession, Postgraduate, E.GÜZEL(Student), 2005

ÇAKIROĞLU J., Türkiye genelinde ortaöğretim fen branşı öğretmen ve öğrencilerinin bilimin doğası üzerine görüşlerinin araştırılması, Doctorate, N.DOĞAN(Student), 2005

ÇAKIROĞLU J., ÖZTEKİN C., Investigation of the preservice science teachers' views on science technology and society issues, Postgraduate, E.KAHYAOĞLU(Student), 2004

ÇAKIROĞLU J., ÖZTEKİN C., Preservice elementary teachers' science knowledge, attitude toward science teaching and their efficacy beliefs regarding science teaching, Postgraduate, H.SARIKAYA(Student), 2004

ÇAKIROĞLU J., ÖZTEKİN C., Investigation of the preservice science teachers' views on nature of science, Postgraduate, R.ERDOĞAN(Student), 2004

ÇAKIROĞLU J., Eight grade students' perceptions of their science learning environment and teachers' interpersonal behavior, Postgraduate, N.RAKICI(Student), 2004

ÇAKIROĞLU J., Preservice science teacher's efficacy beliefs regarding science teaching and their classroom management beliefs, Postgraduate, A.SAVRAN(Student), 2002

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

- I. **Science Teachers' Views on the Nature of Science and its Integration into Instruction**  
Demirel Z. M., Sungur S., Çakiroğlu J.  
Science and Education, vol.32, no.5, pp.1401-1433, 2023 (SCI-Expanded)
- II. **Investigation of Preservice Science Teachers' Nature of Science Understanding and Decision Making on Socioscientific Issue through the Fractal Model**  
Adal E. E., ÇAKIROĞLU J.  
SCIENCE & EDUCATION, vol.32, no.2, pp.529-565, 2023 (SCI-Expanded)
- III. **Effectiveness of Argument-Based Inquiry Approach on Grade 8 Students' Science Content Achievement, Metacognition, and Epistemological Beliefs**  
Deprem S. T. T., Çakiroğlu J., Öztekin C., Kingir S.  
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.21, no.4, pp.1057-1079, 2023 (SSCI)
- IV. **The Effects of Engineering Design-Based Instruction On 7th Grade Students' Nature of Engineering Views**  
Aydoğan B., ÇAKIROĞLU J.  
JOURNAL OF SCIENCE EDUCATION AND TECHNOLOGY, vol.31, no.1, pp.68-80, 2022 (SCI-Expanded)
- V. **Novice and experienced science teachers' conceptual knowledge of evolutionary theory within the context of micro-and macroevolution**  
Yesilyurt E., Öztekin C., Çakiroğlu J., Deniz H.  
Journal of Biological Education, vol.55, no.2, pp.109-127, 2021 (SCI-Expanded)
- VI. **Perceptions of Eighth Graders Concerning the Aim, Effectiveness, and Scientific Basis of Pseudoscience: the Case of Crystal Healing**  
Metin D., ÇAKIROĞLU J., Leblebicioglu G.  
RESEARCH IN SCIENCE EDUCATION, vol.50, no.1, pp.175-202, 2020 (SSCI)
- VII. **Preservice science teachers' collective efficacy in a science methods course**  
Atasoy V., ÇAKIROĞLU J.  
EDUCATIONAL STUDIES, vol.45, no.3, pp.326-341, 2019 (SSCI)
- VIII. **Learner Characteristics and Understanding Nature of Science Is There an Association?**  
Cetinkaya-Aydin G., ÇAKIROĞLU J.  
SCIENCE & EDUCATION, vol.26, pp.919-951, 2017 (SCI-Expanded)
- IX. **The pedagogy of argumentation in science education: science teachers' instructional practices**  
Yılmaz Y. O., ÇAKIROĞLU J., ERTEPINAR H., ERDURAN S.  
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.39, no.11, pp.1443-1464, 2017 (SSCI)
- X. **The Effect of Explicit-Embedded-Reflective Instruction on Scientific Literacy**  
Koksal M., ÇAKIROĞLU J., GEBAN Ö.  
CROATIAN JOURNAL OF EDUCATION-HRVATSKI CASOPIS ZA ODGOJ I OBRAZOVANJE, vol.18, no.2, pp.351-390, 2016 (SSCI)
- XI. **The Effect of Logical Thinking Ability and Gender on Science Achievements and Attitudes towards Science**  
SADI Ö., ÇAKIROĞLU J.  
CROATIAN JOURNAL OF EDUCATION-HRVATSKI CASOPIS ZA ODGOJ I OBRAZOVANJE, vol.17, pp.97-115, 2015 (SSCI)
- XII. **Pre-Service Science Teachers' Written Argumentation Qualities: From the Perspectives of Socio-Scientific Issues, Epistemic Belief Levels and Online Discussion Environment**  
Isbilir E., ÇAKIROĞLU J., Ertepinar H.  
EURASIA JOURNAL OF MATHEMATICS SCIENCE AND TECHNOLOGY EDUCATION, vol.10, no.5, pp.371-381, 2014 (SSCI)
- XIII. **Relations of Cognitive and Motivational Variables with Students' Human Circulatory System Achievement in Traditional and Learning Cycle Classrooms**  
SADI Ö., ÇAKIROĞLU J.

KURAM VE UYGULAMADA EGITIM BILIMLERI, vol.14, no.5, pp.1997-2012, 2014 (SSCI)

- XIV. **The effect of explicit embedded reflective instruction on nature of science understandings in advanced science students**  
Koksal M. S., Çakıroğlu J., Geban Ö.  
JOURNAL OF BIOLOGICAL EDUCATION, vol.47, pp.208-223, 2013 (SCI-Expanded)
- XV. **The Nature of Pre-service Science Teachers' Argumentation in Inquiry-oriented Laboratory Context**  
Ozdem Y., ERTEPINAR H., ÇAKIROĞLU J., Erduran S.  
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.35, no.15, pp.2559-2586, 2013 (SSCI)
- XVI. **WHAT NOS TEACHING PRACTICES TELL US: A CASE OF TWO SCIENCE TEACHERS**  
DOĞAN N., ÇAKIROĞLU J., BİLİCAN K., Cavus S.  
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.12, no.4, pp.424-439, 2013 (SSCI)
- XVII. **Investigating predictors of sense of efficacy beliefs of classroom science and mathematics teachers**  
GÜR G., ÇAKIROĞLU J., ÇAPA AYDIN Y.  
Egitim Ve Bilim-Education And Science, vol.37, pp.68-76, 2012 (SSCI)
- XVIII. **EFFECTS OF HANDS-ON ACTIVITY ENRICHED INSTRUCTION ON STUDENTS' ACHIEVEMENT AND ATTITUDES TOWARDS SCIENCE**  
SADI Ö., ÇAKIROĞLU J.  
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.10, no.2, pp.87-97, 2011 (SSCI)
- XIX. **AN INVESTIGATION OF ELEMENTARY STUDENTS' SCIENTIFIC LITERACY LEVELS**  
Ozdem Y., ÇAVAŞ P., ÇAVAŞ B., ÇAKIROĞLU J., Ertepinar H.  
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.9, no.1, pp.6-19, 2010 (SSCI)
- XX. **The importance of teacher-student interpersonal relationships for Turkish students' attitudes towards science**  
Telli S., den Brok P., ÇAKIROĞLU J.  
RESEARCH IN SCIENCE & TECHNOLOGICAL EDUCATION, vol.28, no.3, pp.261-276, 2010 (SSCI)
- XXI. **DEVELOPMENT OF NATURE OF SCIENCE SCALE (NSS) FOR ADVANCED SCIENCE STUDENTS**  
Koksal M. S., ÇAKIROĞLU J.  
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.9, no.2, pp.87-98, 2010 (SSCI)
- XXII. **Interpersonal relationship of high schools' teachers and teachers' profile Lise öğretmenlerinin kişilerarası davranışları ve öğretmen profilleri**  
Telli S., ÇAKIROĞLU J., Den Brok P.  
Hacettepe Eğitim Dergisi, no.36, pp.260-270, 2009 (SSCI)
- XXIII. **Investigating 8(th) Grade Students' Perceptions of Constructivist Science Learning Environment**  
Ozkal K., Öztekin C., Çakıroğlu J.  
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.34, pp.38-46, 2009 (SSCI)
- XXIV. **Assessing pre-service teachers' environmental literacy in Turkey as a mean to develop teacher education programs**  
Tuncer G., Tekkaya C., SUNGUR S., ÇAKIROĞLU J., Ertepinar H., Kaplowitz M.  
INTERNATIONAL JOURNAL OF EDUCATIONAL DEVELOPMENT, vol.29, no.4, pp.426-436, 2009 (SSCI)
- XXV. **Effectiveness of 5E Learning Cycle Instruction on Students Achievement in Cell Concept and Scientific Epistemological Beliefs**  
Kaynar D., Öztekin C., Çakıroğlu J.  
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.37, pp.96-105, 2009 (SSCI)
- XXVI. **A conceptual model of relationships among constructivist learning environment perceptions, epistemological beliefs, and learning approaches**  
Özkal K., Tekkaya C., Çakıroğlu J., Sungur S.  
LEARNING AND INDIVIDUAL DIFFERENCES, vol.19, pp.71-79, 2009 (SSCI)
- XXVII. **Teachers' and Students' Perceptions of the Ideal Teacher**  
Telli S., den Brok P., ÇAKIROĞLU J.  
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.33, no.149, pp.118-129, 2008 (SSCI)
- XXVIII. **Turkish preservice science teachers' efficacy beliefs regarding science teaching and their beliefs**

### **about classroom management**

Gencer A. S., Cakiroglu J.

TEACHING AND TEACHER EDUCATION, vol.23, no.5, pp.664-675, 2007 (SSCI)

### **XXIX. Turkish pre-service science teachers' views on Science-Technology-Society issues**

Yalvac B., Tekkaya C., Cakiroglu J., Kahyaoglu E.

INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.29, pp.331-348, 2007 (SSCI)

### **XXX. Engagement exploration, explanation, extension, and, evaluation (5E) learning cycle and conceptual change text as learning tools**

Balci S., Cakiroglu J., Tekkaya C.

BIOCHEMISTRY AND MOLECULAR BIOLOGY EDUCATION, vol.34, pp.199-203, 2006 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **ENGINEERING DESIGN-BASED ACTIVITY FOR MIDDLE SCHOOL STUDENTS: THERMAL INSULATION**  
Guler Nalbantoglu F., Cakiroglu J., YILMAZ TÜZÜN Ö.  
Araştırma Temelli Etkinlik Dergisi, vol.13, no.1, pp.29-53, 2023 (Peer-Reviewed Journal)
- II. **A Study on Examining Relationship between Pre-Service Teachers' Collective Efficacy and Science Teaching Efficacy Beliefs**  
Atasoy V., ÇAKIROĞLU J.  
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.35, no.2, pp.466-479, 2020 (ESCI)
- III. **Beliefs about integration of environmental education into the early years: scale development**  
Güner Alpaslan Z., Olgan R., Çakiroğlu J.  
Ahi Evran Üniversitesi Kırşehir Eğitim Fakültesi Dergisi, vol.18, pp.880-907, 2017 (Peer-Reviewed Journal)
- IV. **How contextualized learning settings enhance meaningful nature of science understanding**  
BİLİCAN K., ÇAKIROĞLU J., ÖZTEKİN C.  
Science Education International, vol.27, pp.463-487, 2015 (Peer-Reviewed Journal)
- V. **Turkish pre service elementary science teachers scientific literacy level and attitudes toward science**  
ÇAVAŞ P., ÖZDEM YILMAZ Y., ÇAKIROĞLU J., ÇAVAŞ B., ERTEPINAR H.  
Science Education International, vol.24, pp.383-401, 2013 (Peer-Reviewed Journal)
- VI. **Effects of 5E learning cycle on students' human circulatory system achievement**  
Sadi Ö., ÇAKIROĞLU J.  
Journal of Applied Biological Sciences, vol.4, no.3, pp.63-67, 2010 (Scopus)
- VII. **Elementary Students' Scientific Epistemological Beliefs in Relation to Socio-Economic Status and Gender**  
Özkal K., Öztekin C., Sungur S., Çakiroğlu J., Çakiroğlu E.  
JOURNAL OF SCIENCE TEACHER EDUCATION, vol.21, no.7, pp.873-885, 2010 (ESCI)
- VIII. **Learning Environment Profiles of Turkish Secondary Biology Classrooms**  
Den Brok P., Telli S., Çakiroğlu J., Tekkaya C., Taconis R.  
Learning Environment Research, vol.13, pp.187-204, 2010 (Peer-Reviewed Journal)
- IX. **Influence of in-service teacher education program on science teachers' views of nature of science**  
ÇAKIROĞLU J., Dogan N., Bilican K., Cavus S., Arslan O.  
International Journal of Learning, vol.16, no.10, pp.597-606, 2009 (Scopus)
- X. **Teacher profile in science classes Lselerde fen siniflarinda öğretmen profiller**  
Telli S., den Brok P., ÇAKIROĞLU J.  
Milli Egitim, no.179, pp.113-123, 2008 (Scopus)
- XI. **Students Perceptions of Science Teachers Interpersonal Behaviour in Secondary Schools Development of a Turkish Version of the Questionnaire on Teacher Interaction**  
Telli S., Den Brok P., Çakiroğlu J.  
Learning Environment Research, vol.10, pp.115-129, 2007 (Peer-Reviewed Journal)



- XII. **Turkish high school students biology achievement in relation to academic self regulation**  
Yumuşak N., Sungur S., Çakıroğlu J.  
Educational Research and Evaluation, vol.13, pp.53-69, 2007 (Peer-Reviewed Journal)
- XIII. **Lise Öğrencilerinin Bilim ve Bilim İnsanı Hakkındaki Görüşleri**  
BORA DOĞAN N., ARSLAN O., ÇAKIROĞLU J.  
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.31, pp.32-44, 2006 (Peer-Reviewed Journal)
- XIV. **The Development and Validation of a Turkish Version of Teachers Sense of Efficacy Scale**  
Çapa Aydın Y., Çakıroğlu J., Sarıkaya H.  
Eğitim ve Bilim, vol.30, pp.74-81, 2005 (Peer-Reviewed Journal)
- XV. **Pre service Teacher Self efficacy Beliefs Regarding Science Teaching A Comparison of Pre service Teachers in Turkey and the USA**  
Çakıroğlu J., Çakıroğlu E., Boone W.  
Science Educator, vol.14, pp.31-40, 2005 (Peer-Reviewed Journal)
- XVI. **Ninth Grade Students Understanding of the Nature of Scientific Knowledge**  
KILIÇ K., SUNGUR S., ÇAKIROĞLU J., TEKKAYA C.  
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, vol.28, pp.127-133, 2005 (Peer-Reviewed Journal)
- XVII. **Self Efficacy Attitude and Science Knowledge**  
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Atakan İ., Çakroğlu J.  
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- V. **Middle School Students' Perceptions of Scientists and Engineers and Their Interest Towards STEM Careers**  
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- VII. **5E Öğrenme Modelinde Mühendislik Tasarım Süreci Odaklı STEM Uygulamalarının İlkokul ve Ortaokul Öğrencilerinin Mühendislik Alanları ve Mühendislik Algı Düzeyine Etkileri**  
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- VIII. **5E Öğrenme Modelinde Mühendislik Tasarım Süreci Odaklı STEM Uygulamalarının İlkokul ve Ortaokul Öğrencilerinin Mühendislik Tasarım Süreci Becerilerine, Yaratıcılık ve Takım Çalışmasına Etkileri**  
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- XI. **Fen Bilimleri Öğretmenlerinin Teknopedagojik Eğitim Yeterliklerinin Farklı Değişkenler Açısından İncelenmesi**  
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- XIV. **Changes In A Science Teacher's Pedagogical Practices And Beliefs Following ABI: Onsite Ongoing Professional Support**  
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- XXI. **The Effect of Collective Efficacy on Group Performance regarding Preparing Science Lesson Plans**  
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- XXV. **Collective Efficacy: New Motivational Construct to Improve Science Teaching Efficacy Beliefs**  
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- XXVI. **Science Education Research for Citizen Science Classroom-based Activities: A Content Analysis of papers published in 2016**  
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- XXVII. **Pre-Service Science Teachers' Conceptions of STEM Education**  
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- XXIX. **Addition of New Constructs in the TPB Model in the Context of Early Childhood Teachers' Science Teaching Behaviour**  
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XXXVIII. **Lisansüstü öğrenim gören fen alanı öğretmenlerinin argümantasyon dersinde geliştirdikleri öğretim stratejileri**

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12. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Trabzon, Turkey, 28 - 30 September 2016

XXXIX. **6 Sınıf öğrencilerin bilimsel epistemolojik inançlarını ve bilişüstü farkındalıklarını belirlemeye yönelik bir çalışma**

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XL. **Methodological differences between science and pseudoscience The case of crystals from the standpoint of 8th graders**

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XLII. **Elementary middle and high school students scientific reasoning skills A content Analysis from 1980 to 2015**

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XLV. **A study on collective efficacy among preservice science teachers**

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XLVI. **The importance of teaching and learning nature of science through metacognitive strategies A synthesizing study**

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XLVII. **Pedagogical content knowledge of teacher of gifted students in applying science activity**

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XLVIII. **Pre service science teachers common mistakes in lesson plans**

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XLIX. **Pre service science teachers knowledge attitudes and ethical approaches regarding biotechnology**

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L. **Exploring the Effects of Science Writing Heuristic Approach on 8th Grade Students Metacognition**

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- LV. **Experiences of preservice science teachers regarding group work in science methods course**  
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- LVIII. **Structural epistemic and conceptual aspects of science teachers argumentation in the context of biological Evolution**  
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## Supported Projects

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Çakıroğlu J., Sak U., Project Supported by Other Official Institutions, Özel yeteneklilere yönelik öğretim programları geliştirme projesi, 2018 - 2019

BEKLİOĞLU M., TOLUNAY D., YAĞLI M. B., DEMİREL S., AYDEMİR M. O., ÇEVİK R., ÇAKIROĞLU J., AKOĞLU Ö., Project Supported by Higher Education Institutions, "Eymir Gölü Elçileri ile Göl Ekolojisi Açık Ders Malzemesi Oluşturulması, 2017 - 2017

ÇAKIROĞLU J., ÇETİNKAYA AYDIN G., YILMAZ TÜZÜN Ö., Project Supported by Higher Education Institutions, Öğretmen adaylarının FeTeMM eğitimine yönelik eğilimlerini bilişsel ve duyuşsal değişkenler açısından incelemek, 2016 - 2016

YILMAZ TÜZÜN Ö., ÇAKIROĞLU J., Project Supported by Higher Education Institutions, Fen bilgisi öğretmen adaylarının sosyobilimsel konuların öğretimi konusunda öz-yeterlik inançlarının, karakter ve değer algılarının geliştirilmesi, 2016 - 2016

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## Activities in Scientific Journals

EURASIAN JOURNAL OF EDUCATIONAL RESEARCH, Editor, 2017 - Continues

Eğitim Ve Bilim-Education And Science, First Editor, 2017 - Continues

## Memberships / Tasks in Scientific Organizations

YÖK Denklik Bilim Kurulu Üyeliği, Member of Science Committee, 2017 - Continues

## Scientific Refereeing

TUBITAK Project, 2237 - Program for Supporting Project Training Activities, Eskisehir Osmangazi University, Turkey, May 2020

JOURNAL OF EDUCATION FOR TEACHING, Journal Indexed in SSCI, March 2020

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, May 2019

TUBITAK Project, 4004 - Nature Education and Science Schools, Middle East Technical University, Turkey, December 2018

TEACHING AND TEACHER EDUCATION, Journal Indexed in SSCI, July 2018

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## **Tasks In Event Organizations**

Erbaş A. K., Sungur S., Çakroğlu J., VIth International Eurasian Educational Research Congress, Scientific Congress, Ankara, Turkey, Haziran 2019

Çakroğlu J., ERPA International Congresses on Education 2019, Scientific Congress, Sakarya, Turkey, Haziran 2019

Çakroğlu J., Uluslararası Fen, Matematik, Girişimcilik ve Teknoloji Eğitimi Kongresi,, Scientific Congress, İzmir, Turkey, Nisan 2019

## **Metrics**

Publication: 132

Citation (WoS): 482

Citation (Scopus): 732

H-Index (WoS): 12

H-Index (Scopus): 12

## **Non Academic Experience**

YÜKSEKÖĞRETİM KURULU BAŞKANLIĞI

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