

## **Prof. Funda SAVAŞCI AÇIKALIN**

### **Personal Information**

**Office Phone:** [+90 212 866 3700](tel:+902128663700) Extension: 43531

**Email:** [fsavasci@istanbul.edu.tr](mailto:fsavasci@istanbul.edu.tr)

**Web:** <http://aves.istanbul.edu.tr/fsavasci/>

**Address:** Prof. Dr. Funda SAVAŞCI AÇIKALIN Hasan Ali Yücel Eğitim Fak. Alkent 2000 Mah. Yiğittürk Cad. No:5/7  
Büyüçekmece/İSTANBUL

### **Education Information**

Doctorate, Ohio State University, College Of Education, Science Education, United States Of America 2005 - 2006

Postgraduate, University of Missouri-Columbia, College Of Education, Science Education, United States Of America 2001 - 2002

Undergraduate, Istanbul University, Faculty Of Science, Kimya, Turkey 1994 - 1995

### **Foreign Languages**

English, C1 Advanced

### **Certificates, Courses and Trainings**

Education Management and Planning, Project Learning Tree Workshop, Ohio State University, 2003

Education Management and Planning, Project WILD, Ohio State University Natural Resources, 2003

Education Management and Planning, Project WET Workshop, Ohio State University, 2003

Foreign Language, Preparation TOEFL, Orta Doğu Teknik Üniversitesi, 2000

### **Dissertations**

Doctorate, Science Teacher Beliefs and Classroom Practice Related to Constructivist Teaching and Learning , Ohio State University, College Of Education, Science Education, 2006

### **Research Areas**

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

### **Academic Titles / Tasks**

Associate Professor, Istanbul University, Hasan Ali Yücel Eğitim Fakültesi, Matematik Ve Fen Bilgisi Eğitimi , 2016 - Continues

Assistant Professor, Istanbul University, Hasan Ali Yücel Eğitim Fakültesi, İlköğretim, 2009 - 2016

Lecturer PhD, Istanbul University, Hasan Ali Yücel Eğitim Fakültesi, İlköğretim, 2007 - 2009

## Courses

Özel Öğretim Yöntemleri I, Undergraduate, 2012 - 2013  
Fen Eğitiminde Araştırma Tasarlama, Postgraduate, 2012 - 2013  
Fen ve Teknoloji Öğt lab Uyg 2, Undergraduate, 2012 - 2013  
Fen ve Teknoloji Öğretimi Laboratuvar Uygulamaları II, Undergraduate, 2012 - 2013  
Fen ve Teknoloji Öğretimi II, Undergraduate, 2012 - 2013  
Fen ve Teknoloji Öğretimi I , Undergraduate, 2012 - 2013  
Eğitimde Nitel Araştırma Yöntemleri, Postgraduate, 2012 - 2013  
Özel Öğretim Yöntemleri II, Undergraduate, 2012 - 2013  
Fen konularındaki kavram yanlışları ve kavramsal değişim , Doctorate, 2010 - 2011, 2008 - 2009

## Advising Theses

SAVAŞCI AÇIKALIN F., ..., Postgraduate, D.Toprak(Student), Continues  
SAVAŞCI AÇIKALIN F., Ortaokul Fen ve Teknoloji Ders Kitaplarındaki Maddenin Tanecikli Yapısıyla İlgili Görsellerin İncelenmesi, Postgraduate, H.Özgür(Student), 2014  
SAVAŞCI AÇIKALIN F., İlköğretim 5. Sınıf "Canlılar Dünyasını Gezelim, Tanıyalım" Ünitesinde Kullanılan Öyküleştirme Yönteminin Öğrencilerin Başarı Ve Kavramsal Öğrenmelerine Etkisi, Postgraduate, G.Özden(Student), 2012  
SAVAŞCI AÇIKALIN F., Öğretmenlik Uygulamalarının Öğretmen Adaylarının Özyeterlik ve Sınıf Yönetimi İnançlarına Etkileri, Postgraduate, S.Tuna(Student), 2012

## Jury Memberships

Doctorate, Doktora Savunma (Burcu Seher Çalikoğlu), İstanbul Üniversitesi, June, 2013  
Post Graduate, Yüksekisans tez savunma jüri üyeliği (Sibel Yiğit), Boğaziçi Üniversitesi , January, 2012  
Post Graduate, Yüksekisans Sınav Jürisi, İstanbul Üniversitesi, January, 2012  
Post Graduate, Yüksekisans Tez savunma jüri üyeliği (Müge Ataman Mortaş), Boğaziçi Üniversitesi, June, 2011  
Competition, TEV Proje Yarışması Jüri Üyeliği, TEV, May, 2009

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

- I. **Examination of visuals about the particulate nature of matter in Turkish middle school science textbooks**  
KAPICI H. Ö., Savasci-Acikalın F.  
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.16, no.3, pp.518-536, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **How the seventh grade students visualiz atomic structure and models**  
Yavuz R., SAVAŞCI AÇIKALIN F.  
SHS Web of Conference Journal, vol.48, pp.1041, 2018 (Peer-Reviewed Journal)
- II. **Middle school students' conceptual understanding of earthquakes**  
Toprak-Dereli D., SAVAŞCI AÇIKALIN F.  
SHS Web of COnference Journal, vol.48, pp.1024, 2018 (Peer-Reviewed Journal)

- III. **Use of instructional technologies in science classrooms: Teachers' perspectives.**  
SAVAŞCI AÇIKALIN F.  
TURKISH ONLINE JOURNAL OF EDUCATIONAL TECHNOLOGY, vol.13, no.2, pp.197-201, 2014 (Peer-Reviewed Journal)
- IV. **Carbon goes to..**  
SAVAŞCI AÇIKALIN F.  
SCIENCE ACTIVITIES:CLASSROOM PROJECTS AND CURRICULUM IDEAS, vol.51, no.2, pp.33-43, 2014 (ESCI)
- V. **Fifth grade elementary students' conceptions of earthquakes.**  
SAVAŞCI AÇIKALIN F., ULUDÜZ H.  
ASIA-PACIFIC FORUM ON SCIENCE LEARNING AND TEACHING, vol.14, no.2, pp.11-20, 2013 (Scopus)
- VI. **Middle school students' conceptions of environmental issues.**  
SAVAŞCI AÇIKALIN F.  
INTERNATIONAL JOURNAL OF NEW TRENDS IN ARTS, SPORTS & SCIENCE EDUCATION, vol.2, no.2, pp.26-30, 2013 (Peer-Reviewed Journal)
- VII. **Okul deneyimi ve öğretmenlik uygulaması derslerinin fen öğretmen adaylarının sınıf yönetimi tutum ve inançlarına etkilerinin incelenmesi**  
Tuna S., SAVAŞCI AÇIKALIN F.  
BAYBURT ÜNİVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ, vol.7, no.1, pp.11-29, 2012 (Peer-Reviewed Journal)
- VIII. **Science Teacher Beliefs and Classroom Practice Related to Constructivism in Different School Settings**  
Savasci F., Berlin D. F.  
Journal of Science Teacher Education, vol.23, no.1, pp.65-86, 2012 (ESCI)
- IX. **Making an earthquake: Ground shaking**  
SAVAŞCI AÇIKALIN F.  
SCIENCE ACTIVITIES:CLASSROOM PROJECTS AND CURRICULUM IDEAS, vol.48, no.2, pp.57-64, 2011 (ESCI)
- X. **Teacher beliefs and classroom practice in science education**  
SAVAŞCI AÇIKALIN F.  
ASIA-PACIFIC FORUM ON SCIENCE LEARNING AND TEACHING, vol.10, no.1, pp.1-10, 2009 (Scopus)

## **Books & Book Chapters**

- I. **Fen Öğrenimi Üzerine Görüşler: Bireysel Keşiflerden Öykü Anlatımına**  
SAVAŞCI AÇIKALIN F.  
in: İlköğretimde Eğlendiren ve Anlamayı Geliştiren Fen Öğretimi, Hakan Türkmen, Murat Sağlam, Esin Şahin Pekmez, Editor, Nobel Yayın Dağıtım, Ankara, pp.13-29, 2016
- II. **Fen öğreniminde konuşmanın önemi**  
SAVAŞCI AÇIKALIN F.  
in: İlköğretimde Eğlendiren ve Anlamayı Geliştiren Fen Öğretimi, Hakan Türkmen, Murat Sağlam, Esin Şahin Pekmez, Editor, Nobel Yayın Dağıtım, Ankara, pp.52-61, 2016

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Turkish pre-service teacher conceptions of the particulate nature of matter**  
SAVAŞCI AÇIKALIN F.  
9th European Conference on Research in Chemical Education, İstanbul, Turkey
- II. **Pre-service elementary teachers' conceptions of earthquakes**  
SAVAŞCI AÇIKALIN F.  
2015 International Education Conference, Londra, United Kingdom, 7 - 10 June 2015, pp.3
- III. **The untold story of teachers during the first five years of teaching**

Şahin E., SAVAŞCI AÇIKALIN F.

International Organization for Science and Technology Education, İstanbul, Turkey, 24 - 26 April 2015, pp.1

**IV. Investigating Student Teachers' Understanding of Models in Science Education**

SAVAŞCI AÇIKALIN F.

the WEI International Academic Conference, New Orleans, United States Of America, 19 - 22 October 2014, pp.1

**V. Pre-service Teachers' Views on the Nature of Models**

SAVAŞCI AÇIKALIN F.

V. European Conference on Social and Behavioral Sciences. Baltic Institute of Humanities, St Petersburg, Russia, 11 September - 14 November 2014

**VI. Turkish preservice teachers' attitudes toward field experiences**

AÇIKALIN M., SAVAŞCI AÇIKALIN F.

V. European Conference on Social and Behavioral Sciences. Baltic Institute of Humanities, St Petersburg, Russia, 11 - 14 September 2014, pp.1

**VII. An Investigation Of Pre-Service Science Teachers' Self-Efficacy Beliefs During Field Experience And Teaching Practice**

Tuna S., SAVAŞCI AÇIKALIN F.

International First Educational Research Congress, İstanbul, Turkey, 24 - 26 April 2014, pp.1

**VIII. A Study Of Pre-Service Teachers' Science Teaching Efficacy Beliefs During The Elementary Science Laboratory Course**

Savasci-Acikalin F.

4th World Conference on Learning, Teaching and Educational Leadership (WCLTA), Barcelona, Spain, 27 - 29 October 2013, vol.141, pp.221-226

**IX. A study of pre-service teachers' science teaching efficacy beliefs during the elementary science laboratory course**

SAVAŞCI AÇIKALIN F.

4th World Conference on Learning, Teaching and Educational Leadership, Barcelona, Spain, 27 - 29 October 2013

**X. How middle school students use information and communication technologies (ICT) in the science classroom**

SAVAŞCI AÇIKALIN F.

International Academic Conference, Colorado, United States Of America, 4 - 06 August 2013

**XI. Middle school students' conceptions of environmental issues**

SAVAŞCI AÇIKALIN F.

New Trends on Global Education Conference, Girne, Cyprus (Kktc), 24 - 26 September 2012

**XII. Use of instructional technologies in science classrooms: Teachers' perspectives**

SAVAŞCI AÇIKALIN F.

New Trends on Global Education Conference, Girne, Cyprus (Kktc), 24 - 26 September 2012

**XIII. Fen ve teknoloji öğretmenlerinin derslerinde akıllı tahta kullanımı hakkındaki görüşleri**

SAVAŞCI AÇIKALIN F., Tiryaki A.

21. Ulusal Eğitim Bilimleri Kongresi, Marmara Üniversitesi, İstanbul, Turkey, 12 - 14 September 2012

**XIV. Effects of teaching living things unit by using the storyline method on grade 5 science class**

SAVAŞCI AÇIKALIN F.

5th International Storyline Conference, Stockholm, Switzerland, 9 - 11 August 2012

**XV. Turkish elementary students' conceptions and awareness about earthquakes**

SAVAŞCI AÇIKALIN F.

European International Education Conference, Roma, Italy, 6 - 08 August 2012

**XVI. Turkish science teachers' views about models**

Kapıcı H. Ö., SAVAŞCI AÇIKALIN F.

the Fourth International Congress of Educational Research, İstanbul, Turkey, 4 - 07 May 2012

**XVII. High school students' understandings of solutions and solubility concepts**

SAVAŞCI AÇIKALIN F., Adadan E.

European Conference on Educational Research (ECER), Berlin, Germany, 10 - 12 September 2011

- XVIII. **Evaluating secondary students' conceptions of solution chemistry using a two-tier diagnostic instrument**  
Adadan E., SAVAŞCI AÇIKALIN F.  
European Conference on Educational Research (ECER), Berlin, Germany, 9 - 12 September 2011
- XIX. **Preservice teachers' conceptions of environmental issues**  
AÇIKALIN M., SAVAŞCI AÇIKALIN F.  
European Conference on Educational Research, Berlin, Germany, 6 - 09 September 2011, pp.1
- XX. **Development of a diagnostic test to assess grade 11 students' conceptions of solution chemistry**  
Adadan E., SAVAŞCI AÇIKALIN F.  
European Science Education Research Association (ESERA), Lyon, France, 3 - 07 September 2011
- XXI. **Grade 11 students' mental models of solution chemistry**  
SAVAŞCI AÇIKALIN F., Adadan E.  
European Science Education Research Association (ESERA), Lyon, France, 3 - 07 September 2011
- XXII. **Why Turkish pre-service teachers prefer to see PowerPoint presentations in their classes**  
SAVAŞCI AÇIKALIN F.  
International Educational Technology Conference (IETC), İstanbul, Turkey, 22 - 24 May 2011
- XXIII. **Academic profiles of faculty members in colleges of education in the Turkish universities**  
AÇIKALIN M., SAVAŞCI AÇIKALIN F.  
International College Teaching & Learning Conference (Clute Institute), Las Vegas, United States Of America, 15 - 18 October 2010, pp.1
- XXIV. **Pre-service teachers' conceptions of greenhouse effect**  
SAVAŞCI AÇIKALIN F.  
Second International Congress of Educational Research, Antalya, Turkey, 27 April - 01 May 2010
- XXV. **An in-depth study of constructivist classrooms in different school settings**  
SAVAŞCI AÇIKALIN F., BERLIN D.  
European Science Education Research Association Conference, İstanbul, Turkey, 3 - 07 September 2009
- XXVI. **An analysis of representations of the particulate nature of matter in Turkish chemistry textbooks**  
SAVAŞCI AÇIKALIN F.  
9th European Conference on Research in Chemical Education, İstanbul, Turkey, 3 - 08 July 2008
- XXVII. **Turkish pre-service teacher beliefs about teaching and learning of science**  
SAVAŞCI AÇIKALIN F.  
the 9th European Conference on Research in Chemical Education, İstanbul, Turkey, 3 - 08 July 2008
- XXVIII. **Pre-Service science teacher views about use of technology in the general chemistry laboratory.**  
ÇINARLI A., KIRBAŞLAR F. G., SAVAŞCI AÇIKALIN F., AVCI F.  
9 th European Conference on Research in Chemical Education, Turkey, pp.139
- XXIX. **Fen ve teknoloji derslerinde kullanılabilecek yeni etkinlikler ve sınıf öğretmeni adaylarının bu etkinliklerle ilgili görüşleri**  
SAVAŞCI AÇIKALIN F.  
Uluslararası Prof. Dr. Suzan Erbaş Bilim Eğitimi Çalıştayı, Çanakkale, Turkey, 5 - 06 March 2008
- XXX. **Kimya Laboratuvar Uygulamalarında E-öğrenme Etkinlikleri**  
KIRBAŞLAR F. G., SAVAŞCI AÇIKALIN F., ÇINARLI A.  
Future, e-Learning, İstanbul, Turkey, Turkey, 1 - 04 March 2008
- XXXI. **Maddenin tanecikli yapısının Türkiye'deki fen ve kimya ders kitaplarında sunulmuş şekilleri ve öğrencilerde görülen kavram yanılgıları**  
SAVAŞCI AÇIKALIN F.  
1. Ulusal Kimya Eğitimi Kongresi, İstanbul, Turkey, 27 - 30 June 2007
- XXXII. **Science teacher beliefs and classroom practice related to constructivist teaching and learning**  
SAVAŞCI AÇIKALIN F., Berlin D.  
18th Annual Conference on Ethnographic and Qualitative Research in Education, Cedarville, United States Of America, 8 - 10 June 2006
- XXXIII. **Multiple representations of the particulate nature of matter**

Irving K., Wang T., SAVAŞCI AÇIKALIN F.

NARST, San Francisco, California, United States Of America, 3 - 07 April 2006

**XXXIV. An Analysis of Representations of the Particulate Nature of Matter in Chemistry Textbooks**

IRVING K., SAVAŞCI AÇIKALIN F., WANG T.

ASTE Mid-Atlantic Regional Conference, Breaks Interstate Park, Breaks, Va, United States Of America, 27 - 29 October 2005

**XXXV. Historical Study of Representations of the Particulate Nature of Matter in Chemistry Text Books**

SAVAŞCI AÇIKALIN F., Irving K.

ASTE International Conference, Portland, Oregon, United States Of America, 3 - 05 January 2005

**XXXVI. Resources and sport utility vehicles**

PRIDE D., SAVAŞCI AÇIKALIN F.

annual meeting of the Geological Society of America, Denver, Colorado, United States Of America, 10 - 12 November 2004

**XXXVII. The understanding of constructivism and its implications in science classes**

SAVAŞCI AÇIKALIN F.

National Science Teachers Association Midwestern Area Convention, Indianapolis; In, United States Of America, 8 - 10 November 2004

**XXXVIII. Effects of the teaching elementary science methods course on pre-service teachers self-efficacy beliefs about teaching science**

SAVAŞCI AÇIKALIN F.

International College of Teaching and Learning Conference, Las Vegas, United States Of America, 10 October 2010 - 12 October 2010

## Other Publications

**I. Representations of the particulate nature of matter in chemistry textbooks: An historical study**

IRVING K., Wang T., SAVAŞCI AÇIKALIN F.

Presentation, pp.100, 2005

## Supported Projects

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, Science teacher beliefs and classroom practice related to constructivism in different school settings, 2013 - 2015

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, An analysis of 16-17-year-old students' understanding of solution chemistry concepts using a two-tier diagnostic instrument, 2012 - 2015

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, Why Turkish Pre-Service Teachers Prefer to See PowerPoint Presentations in Their Classes, 2012 - 2015

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, Investigating Student Teachers' Understanding of Models in Science Education, 2014 - 2014

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, Teacher and Student Perspectives towards the Use of Information and Communication Technologies (ICT) In the Science Classroom, 2012 - 2014

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, An analysis of images in science textbooks and students' conceptions of the particulate nature of matter, 2013 - 2013

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, Pre-service teachers' conceptions of the greenhouse effects and global warming, 2010 - 2013

SAVAŞCI AÇIKALIN F., Project Supported by Higher Education Institutions, Effects of the Teaching Elementary Science Methods Course on Pre-service Teachers Self-Efficacy Beliefs about Teaching Science, 2010 - 2010

## Metrics

Publication: 52

Citation (WoS): 44

Citation (Scopus): 52

H-Index (WoS): 2

H-Index (Scopus): 2

## Scholarships

Yurtdışında Doktora ve Yüksek lisans Öğrenim Bursu, Ministry of Education, 2001 - Continues

## Awards

SAVAŞCI AÇIKALIN F., Science teacher beliefs and classroom practice related to constructivism in different school settings, İstanbul Üniversitesi, December 2013

KARATUĞ KAÇAR A., SAVAŞCI AÇIKALIN F., Bilimsel Yayın Teşvik Ödülü, TÜBİTAK, May 2012

SAVAŞCI AÇIKALIN F., Why Turkish Pre-Service Teachers Prefer to See PowerPoint Presentations in Their Classes, İstanbul Üniversitesi, May 2012

SAVAŞCI AÇIKALIN F., An analysis of 16-17-year-old students' understanding of solution chemistry concepts using a two-tier diagnostic instrument, İstanbul Üniversitesi, May 2012

KARATUĞ KAÇAR A., SAVAŞCI AÇIKALIN F., Bilimsel Yayın Teşvik Ödülü, TÜBİTAK, November 2011