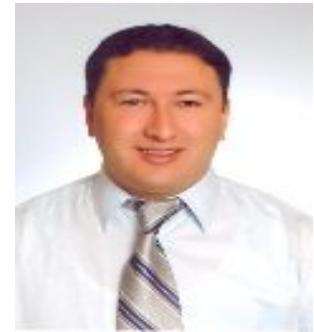


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Learning Knowledge

Doctorate 2002 - 2007	The University Of Iowa, College Of Education, Fen Bilgisi Eğitimi, United States Of America
Post Graduate 2000 - 2002	Missouri Üniversitesi-Columbia, College Of Education, Fen Bilgisi Eğitimi, United States Of America
Under Graduate 1994 - 1998	Gazi Üniversitesi, Eğitim Fakültesi, İlköğretim/ Fen Bilgisi Eğitimi, Turkey

Dissertations

Doctorate, The impact of a Science, Technology and Society (STS) / constructivist learning approach on the beliefs and attitudes of preservice science teachers, The University Of Iowa, College Of Education, Fen Bilgisi Eğitimi, 2007

Academic Titles / Tasks

Associate Professor 2012 - Continues	Yıldız Teknik Üniversitesi, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi
Assistant Professor 2011 - 2012	Yıldız Teknik Üniversitesi, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi
Lecturer PhD 2007 - 2011	Marmara Üniversitesi, Atatürk Eğitim Fakültesi, İlköğretim/ Fen Bilgisi Eğitimi
Research Assistant 2006 - 2007	The University Of Iowa, College Of Education, Science Education

Supported Projects

1. Ökten C. E., Akçay H., Project Supported by Other Official Institutions, Renkli Eller Engelli Bireyleri Sanat-Spor Ve Eğitim Yoluyla Sosyal Dahil Etme Modeli Uygulaması, 2014 - 2015
2. Biricik G., Akçay H., Industrial Thesis Project, Etkileşimli Eğitim, Öğretim ve Kişisel Gelişim Uygulamaları Platformu,

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

1. **Comparison of the Quality of Written Scientific Arguments in Different Laboratory Environments**
Kapıcı H. Ö., Akçay H., Koca E. E.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.19, pp.1-20, 2021 (Journal Indexed in SSCI)
2. **How do different laboratory environments influence students' attitudes toward science courses and laboratories?**
KAPICI H. Ö., AKÇAY H., de Jong T.
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3. **Improving student teachers' TPACK self-efficacy through lesson planning practice in the virtual platform**
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4. **Using Hands-On and Virtual Laboratories Alone or Together—Which Works Better for Acquiring Knowledge and Skills?**
Kapıcı H. Ö., Akçay H., De Jong T.
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5. **Students learning to use the skills used by practicing scientists**
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Eurasia Journal of Mathematics, Science and Technology Education, vol.12, no.3, pp.513-525, 2016 (Journal Indexed in SSCI)
6. **Student Views of Teacher Actions in Science Classrooms Designed to Meet Current Reforms**
Yager S. O., AKÇAY H., DOĞAN Ö. K., Yager R. E.
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7. **The Impact of a Science/Technology/Society Teaching Approach on Student Learning in Five Domains**
Akçay H., Yager R. E.
JOURNAL OF SCIENCE EDUCATION AND TECHNOLOGY, vol.19, pp.602-611, 2010 (Journal Indexed in SCI)
8. **Bilim Sözde Bilim Tartışmasının Öğretmen Adaylarının Bilimin Doğası İnanışlarına Etkisi**
TURGUT H., AKÇAY H., İREZ O. S.
Kuram Ve Uygulamada Eğitim Bilimleri, vol.10, pp.2621-2663, 2010 (Journal Indexed in SSCI)

Articles Published in Other Journals

1. **Impacts of Serious Games on Fifth-Grade Students' Science Achievement and Attitudes towards Science**
Toprak Yallıhep E. S., Akçay H., Kapıcı H. Ö.
International Journal of Technology in Education and Science, vol.5, no.2, pp.56-69, 2021 (Refereed Journals of Other Institutions)
2. **Analysis of the Representations in Turkish Middle School Science Textbooks from 2002 to 2017**
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3. **Enhancing pre-service science teachers' inquiry skills in hands-on and virtual laboratory environments**
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- Themes in e-Learning , vol.13, pp.21-32, 2020 (Refereed Journals of Other Institutions)
4. **Fen Öğrenme Motivasyon Ölçeğinin Türkçe'xxye Uyarlanması**
İşin O., AKÇAY H., KAPICI H. Ö.
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5. **The Effects of Environmental Science e-Projects on Middle School Students' Behaviors and Attitudes**
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6. **Comparison of simulation-based and textbook-based instructions on middle school students' achievement, inquiry skills and attitude**
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9. **Structuring a New Socioscientific Issues (SSI) Based Instruction Model: Impacts on Pre-service Science Teachers' (PSTs) Critical Thinking Skills and Dispositions**
Gül M. D., Akçay H.
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10. **Choices of pre-service science teachers laboratory environments:Hands-on or hands-off?**
Kapıcı H. Ö., Akçay H.
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11. **Promoting Preservice Teachers' Attitudes toward Socioscientific Issues**
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12. **Argümantasyon Temelli Deney Raporu Yazımının Fen Bilgisi Öğretmen Adaylarının Argüman Yapılarını Geliştirmelerine Etkisinin İncelenmesi**
İNALTEKİN T., AKÇAY H.
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13. **Ortaokul Fen Bilimleri Ders Kitaplarının Bloom Taksonomisine Göre İncelenmesi**
AKÇAY B., AKÇAY H., KAHRAMANOĞLU E.
Uludağ Üniversitesi Eğitim Fakültesi Dergisi, vol.30, pp.521-549, 2017 (Refereed Journals of Other Institutions)
14. **Constructing Concept Maps to Encourage Meaningful Learning in Science Classroom**
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Education, vol.138, pp.9-16, 2017 (Refereed Journals of Other Institutions)
15. **Learning from Dealing with Real World Problems**
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16. **Astronomi Öğretiminde Öğrenme Amaçlı Çoklu Yazma Etkinliklerinin Değerlendirilmesi**
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18. **Using Newspapers and Advertisement as a Focus for Science Teaching and Learning**
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24. **Particulate Nature of Matter Misconceptions Held by Middle and High School Students in Turkey**
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26. **Effectiveness of Science-Technology-Society (STS) Instruction on Student Understanding of the Nature of Science and Attitudes toward Science**
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27. **Çoklu yazma etkinlerinin fen ve teknoloji dersi öğretiminde kullanılmasının öğrenci başarısı ve kavram öğrenmeye etkisi**
AKÇAY H., Özyurt B., Akçay B.
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28. **İlköğretim 6 7 ve 8 Sınıf Fen Teknoloji Ders Kitabı Etkinliklerinin İncelenmesi**
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29. **Araştırma tabanlı fen öğretimi ölçeri'nin Türkçe uyarlaması: Geçerlilik ve güvenirlilik çalışması**
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30. **Fen bilgisi öğretmen adaylarının fen öğrenimi ve öğretimine yönelik inanışları**

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31. **Accomplishing the visions for teacher education programs advocated in the national science education standards**
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34. **Implimenting Science-Technology-Society Approaches in Middle School Science Teaching**
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39. **Comparison of Student Learning Outcomes in Middle School Science Classes with an STS Approach and a Typical Textbook Dominated Approach**
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40. **Comparing Science Learning Among 4th-, 5th-, and 6th-Grade Students: STS Versus Textbook-Based Instruction**
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Journal of Elementary Science Education, vol.21, no.2, pp.15-24, 2009 (Refereed Journals of Other Institutions)
41. **What Results Indicate Concerning the Successes with STS Instruction**
YAGER R., AKÇAY H.
The Science Educator, vol.16, pp.13-21, 2007 (Refereed Journals of Other Institutions)
42. **Preservice Science Teachers Beliefs about Science-Technology and Their Implication in Society**
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43. **The Effects of Varied Inquiry Experiences on Teacher and Student Questions and Actions in STS classroom**
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44. **Lenses and Perception Investigations with Light**

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1. **Science and Technology Literacy**
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2. **Fen ve Teknoloji Okuryazarlığı**
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in: Fen Öğretimi, Öztuna Kaplan Aysun, Editor, Nobel Akademi, Ankara, pp.49-68, 2020
3. **Fen ve Fen Eğitimine İlişkin Temel Kavramlar**
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in: Fen Öğretimi i, Aysun Öztuna Kaplan, Editor, Nobel Yayıncılık, Ankara, pp.1-21, 2020
4. **Cognitive theories of learning on virtual science laboratories**
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in: Education Research Highlights in Mathematics, Science and Technology 2019, Mack Shelly,S. Ahmet Kiray, Editor, ISRES Publishing, Iowa, pp.107-126, 2019
5. **Uluslararası fen programlarının karşılaştırılması-Amerika-Finlandiya-Singapur-Türkiye**
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İNALTEKİN T., AKÇAY H.
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3. **Middle School Students' Ideas about Parent Involvement During Science Learning**
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6. **Effectiveness of Environmental Science Projects on Middle School Students' Environmental Knowledge and Attitudes**
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8. **Content Analysis of Science Textbooks' Evaluation Questions Based on Physics, Chemistry, Biology, Environment and Astronomy Subject Area by Bloom's Taxonomy**
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9. **MIDDLE SCHOOL STUDENTS' IDEAS ABOUT ARDUINO EDUCATION**
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14. **Effects of Writing to Learn Activities in Hands-on and Virtual Laboratory Environments**
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Cayvaz A., AKÇAY H.
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16. **Descriptive Analysis of Diagrammatic Representations of Turkish Middle School Science Textbooks**
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17. **Fen Bilimleri Öğretmen Adaylarının Ay'ın Hareketi ve Evreleri Konusundaki İçerik Bilgileri ve Öğrenci Düşüncelerini Anlama Bilgilerinin İncelenmesi**
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18. **Dokuzuncu Sınıf Kimya Ders Kitaplarında Maddenin Yapısı Konusu ile İlgili Görsellerin İncelenmesi**
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19. **City - Nature Relationship: Contradiction or Conformity (Kent ve Doğa ilişkisi: Tezatlık ya da Uygunluk)**
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21. **The Impact of Socio-Scientific Issues Based Instruction on the Critical Thinking Skills and Dispositions of Pre-Service Teachers**
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22. **Science Teachers as Scenerio Developers for Problem-Based Learning**
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23. **ANALYSIS OF ARGUMENTATION DEVELOPMENT IN LABORATORY APPLICATIONS BASED ON THE ARGUMENTATION BASED SCIENCE INQUIRY APPROACH**
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The International Conference on Education in Mathematics, Science Technology (ICEMST), İzmir, Turkey, 18 - 21 May 2017
24. **Promoting preservice teachers' attitudes toward socioscientific issues through a semester-long instruction**
YERDELEN S., CANSIZ N., CANSIZ M., AKÇAY H.
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25. **SCIENCE TEACHERS' VIEWS ABOUT IMPLEMENTATION OF COMPUTER TECHNOLOGIES IN THEIR CLASSROOMS**
İNALTEKİN T., AKÇAY H.
International Congresses on Education 2017, Budapest, Hungary, 18 - 21 May 2017
26. **Fen Bilgisi Öğretmen Adayı Eğitimiçilerinin Öğretim için Sahip Oldukları Pedagojik Alan Bilgilerinin İncelenmesi**
İNALTEKİN T., AKÇAY H.

12. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Trabzon, Turkey, 28 - 30 September 2016
27. MOBIL BASED TEACHING AND LEARNING MATERIALS FOR CHILDREN WITH AUTISM
AKÇAY H.
The International Conference on Education in Mathematics, Science & Technology (ICEMST), 01 May 2016
28. LEARNING SCIENCE BY ONLINE EXPERIENCE: GO-LAB
Jong T. D., AKÇAY H.
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29. Öğrenme Amaçlı Yazma Uygulamaları
AKÇAY H.
iSER 2015 World Conference on Education, İstanbul, Turkey, 10 - 12 June 2015
30. Problems Faced by Students with Learning Difficulties in Educational Life and in Social Interactions
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Research Areas

Social Sciences and Humanities, Education, Education in Natural Sciences