

Res. Asst. PhD Hasan Özgür KAPICI

Personal Information

Office Phone: [+90 212 383 4881](tel:+902123834881)

Email: hokapici@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/hokapici>

Address: Yıldız Teknik Üniversitesi Davutpaşa Kampüsü Eğitim Fakültesi Esenler İstanbul

International Researcher IDs

ScholarID: MSBNCgAAAAJ&hl=tr&oi=ao

ORCID: 0000-0001-7473-1584

Publons / Web Of Science ResearcherID: E-9405-2015

Yoksis Researcher ID: 118011

Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, İlköğretim, Turkey 2014 - 2021

Postgraduate, Istanbul University, Eğitim Bilimleri Enstitüsü, Fen Bilgisi Eğitimi, Turkey 2011 - 2014

Undergraduate, Bogazici University, Faculty Of Education, İlköğretim, Turkey 2006 - 2011

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, The Effects of Virtual and Hands-on Laboratory Environments on the Conceptual Knowledge, Inquiry Skills, and Attitudes of Middle School Students, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 2021

Postgraduate, Ortaokul Fen ve Teknoloji Ders Kitaplarındaki Maddenin Tanecikli Yapısı ile İlgili Görsellerin İncelenmesi, İstanbul Üniversitesi, Eğitim Bilimleri Enstitüsü, Fen Bilgisi Eğitimi, 2014

Research Areas

Education, Education in Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Yıldız Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2021 - Continues

Research Assistant, Yıldız Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2013 - 2021

Research Assistant, Kastamonu University, Faculty Of Education, Department Of Primary School, 2012 - 2013

Research Assistant, Aksaray University, Eğitim Fakültesi, İlköğretim Bölümü, 2012 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigating the effects of different levels of guidance in inquiry-based hands-on and virtual science laboratories**
Kapıcı H. O., AKÇAY H., Cakir H.
INTERNATIONAL JOURNAL OF SCIENCE EDUCATION, vol.44, no.2, pp.324-345, 2022 (SSCI)
- II. **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 (SSCI)
- III. **Improving student teachers' TPACK self-efficacy through lesson planning practice in the virtual platform**
KAPICI H. Ö., AKÇAY H.
EDUCATIONAL STUDIES, 2020 (SSCI)
- IV. **How do different laboratory environments influence students' attitudes toward science courses and laboratories?**
KAPICI H. Ö., AKÇAY H., de Jong T.
JOURNAL OF RESEARCH ON TECHNOLOGY IN EDUCATION, vol.52, no.4, pp.534-549, 2020 (SSCI)
- V. **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.
Journal of Science Education and Technology, vol.28, pp.231-250, 2019 (SCI-Expanded)
- VI. **PRE-SERVICE TEACHERS' ATTITUDES TOWARD SOCIO-SCIENTIFIC ISSUES AND THEIR VIEWS ABOUT NUCLEAR POWER PLANTS**
Kapıcı H. Ö., İlhan G. O.
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.15, pp.642-652, 2016 (SSCI)
- VII. **Examination of visuals about the particulate nature of matter in Turkish middle school science textbooks**
Kapıcı H. Ö., Savasci-Acikalın F.
CHEMISTRY EDUCATION RESEARCH AND PRACTICE, vol.16, pp.518-536, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Middle School Students' Perceptions of Scientists and Views About to Become a Scientist**
İvgin A. B., Akçay H., Kapıcı H. Ö.
International Journal on Social and Education Sciences, vol.3, no.3, pp.1-19, 2021 (Peer-Reviewed Journal)
- II. **Impacts of Serious Games on Middle School Students Science Achievement and Attitudes towards Science**
Toprak Yallıhep E. S., AKÇAY H., KAPICI H. Ö.
International Journal of Technology in Education and Science, vol.5, no.2, pp.203-212, 2021 (Peer-Reviewed Journal)
- III. **Analysis of the Representations in Turkish Middle School Science Textbooks from 2002 to 2017**
Akçay H., Kapıcı H. Ö., Akçay B.
Participatory Educational Research, vol.7, no.3, pp.192-216, 2020 (Scopus)
- IV. **Enhancing pre-service science teachers' inquiry skills in hands-on and virtual laboratory environments**
Kapıcı H. Ö., Akçay H.
Themes in e-Learning , vol.13, pp.21-32, 2020 (Peer-Reviewed Journal)
- V. **The Effects of Environmental Science e-Projects on Middle School Students' Behaviors and Attitudes**
Keskin C., AKÇAY H., KAPICI H. Ö.
International Journal of Technology in Education and Science, vol.4, no.2, pp.160-167, 2020 (Peer-Reviewed)

Journal)

- VI. **Fen Öğrenme Motivasyon Ölçeğinin Türkçe'xxye Uyarlanması**
Işın O., AKÇAY H., KAPICI H. Ö.
Mediterranean Journal of Educational Research, vol.14, no.31, pp.505-529, 2020 (Peer-Reviewed Journal)
- VII. **Comparison of Simulation-Based and Textbook-Based Instructions on Middle School Students' Achievement, Inquiry Skills, and Attitudes**
Cayvaz A., Akçay H., Kapıcı H. Ö.
INTERNATIONAL JOURNAL OF EDUCATION IN MATHEMATICS SCIENCE AND TECHNOLOGY, vol.8, no.1, pp.34-43, 2020 (ESCI)
- VIII. **Choices of pre-service science teachers laboratory environments:Hands-on or hands-off?**
Kapıcı H. Ö., Akçay H.
World Journal on Educational Technology: Current Issues, vol.10, no.1, pp.41-51, 2018 (Scopus)
- IX. **Using Newspapers and Advertisement as a Focus for Science Teaching and Learning**
Akçay H., Kapıcı H. Ö., Yager R.
Universal Journal of Educational Research, vol.5, no.1, pp.99-103, 2017 (Scopus)
- X. **Comparison of Science-Technology-Society Approach and Textbook Oriented Instruction onStudents' Abilities to Apply Science Concepts**
Kapıcı H. Ö., Akçay H., Yager R.
International Journal of Progressive Education, vol.13, pp.18-28, 2017 (Peer-Reviewed Journal)
- XI. **COMPARISONS OF SCIENCE TEACHERS', PRE-SERVICE SCIENCE TEACHERS' AND SUPERINTENDENTS' BELIEFS INTENDED FOR SCIENCE TEACHING AND LEARNING**
Kapıcı H. Ö., Akçay H.
Mustafa Kemal Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, vol.13, no.36, pp.153-168, 2016 (Peer-Reviewed Journal)
- XII. **Evaluation of Using Multimodal Writing Activities for Teaching Acid and Base Concepts**
Erol G., Akçay H., Bayram H., Kapıcı H. Ö.
Eğitim, Bilim ve Teknoloji Araştırmaları Dergisi, vol.1, no.2, pp.94-102, 2016 (Peer-Reviewed Journal)
- XIII. **Middle School Students Attitudes toward Science Scientists Science Teachers and Classes**
Kapıcı H. Ö., Akçay H.
The Asia-Pasific Forum on Science Learning and Teaching, vol.17, no.1, pp.1-22, 2016 (Peer-Reviewed Journal)
- XIV. **Particulate Nature of Matter Misconceptions Held by Middle and High School Students in Turkey**
Kapıcı H. Ö., Akçay H.
European Journal of Education Studies, vol.2, no.8, pp.43-58, 2016 (Peer-Reviewed Journal)
- XV. **The Impact of technology based learning on the beliefs and attitudes of pre service teachers**
KAPICI H. Ö., AKÇAY H., İNALTEKİN T.
International Journal of Humanities and Education, vol.1, pp.154-167, 2015 (Peer-Reviewed Journal)
- XVI. **Science and Non-Science Teachers' Views about Astronomy Diagrams in Middle School Science Textbooks**
Kapıcı H. Ö., Umdü Topsakal Ü.
Eurasian Academy of Sciences Social Sciences Journal, vol.2, no.1, pp.1-9, 2015 (Peer-Reviewed Journal)
- XVII. **Examination of Tourism Concept in Fifth Grade Social Studies Textbooks**
İlhan G. O., Şeker M., Kapıcı H. Ö.
International Journal of Field Education, vol.1, no.1, pp.42-62, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Science and Technology Literacy**
Kapıcı H. Ö., Akçay H.
in: Teaching Science, Aysun Kaplan, Editor, Nobel Yayın Dağıtım, Ankara, pp.49-68, 2020
- II. **Cognitive theories of learning on virtual science laboratories**

Kapıcı H. Ö., Akçay H.

in: Education Research Highlights in Mathematics, Science and Technology 2019, Mack Shelly,S. Ahmet Kiray, Editor, ISRES Publishing, Iowa, pp.107-126, 2019

III. Fen Eğitiminde Sanal Laboratuvarlar

KAPICI H. Ö., AKÇAY H.

in: Fen Öğrenme ve Öğretim Yaklaşımları, Behiye Akçay, Editor, Nobel Akademi, Ankara, pp.331-345, 2019

IV. Fen Eğitiminde Ders Kitapları ve Çoklu Gösterimler

Kapıcı H. Ö., Savasçı-Açıklan F.

in: Fen Bilimleri Eğitimi Alanındaki Öğretmen ve Öğrenme Yaklaşımları, Akçay B, Editor, Pegem A Yayıncılık, Ankara, pp.227-240, 2017

V. Model-Based Science Education: The Case of Turkey

Kapıcı H. Ö.

in: New Educational Trends in Turkey, Umdü Topsakal Ü.,Özkan G, Editor, Trafford Publishing , Indiana, pp.41-57, 2017

VI. Hayat Bilgisi Dersi Öğretim Programı ve Temel Beceriler

AKÇAY H., KAPICI H. Ö.

in: Hayat Bilgisi Öğretimi, Semra Güven, Selahattin Kaymakçı, Editor, Pegem Akademi, Ankara, pp.112-131, 2016

Refereed Congress / Symposium Publications in Proceedings

I. Developing Inquiry Skills of Pre-service Science Teachers in Two Different Laboratory Environments

Kapıcı H. Ö., Akçay H.

International Conference on Education in Mathematics, Science and Technology, İzmir, Turkey, 28 April - 01 May 2019, pp.1

II. Technology supported lesson plan draft: Graasp platform.

Kapıcı H. Ö.

International Field Education Material Symposium, İstanbul, Turkey, 8 - 12 April 2019, pp.1-12

III. Learning Science in Hands-on and Online Laboratories

Kapıcı H. Ö., Akçay H., De Jong T.

JURE EARLI, Antwerp, Belgium, 2 - 05 July 2018, pp.1-5

IV. Effects of Writing to Learn Activities in Hands-on and Virtual Laboratory Environments

KAPICI H. Ö., KOCA E. E., AKÇAY H.

International Conference on Education in Mathematics, Science and Technology, Muğla, Turkey, 28 April 2018, pp.63

V. Dokuzuncu Sınıf Kimya Ders Kitaplarında Maddenin Yapısı Konusu ile İlgili Görsellerin İncelenmesi

KAPICI H. Ö., AKÇAY H.

International Symposium on Textbooks, İstanbul, Turkey, 12 April 2018, pp.68

VI. Inservice Science Teachers Use of Instructional Materials

Kapıcı H. Ö., Koç I.

V. International Congress of Educational Research, Çanakkale, Turkey, 1 - 05 June 2015, pp.1-12

VII. Sosyobilimsel Bir Konu Olan Nükleer Enerjiye Yönelik Fen Bilgisi ve Sosyal Bilgiler Öğretmen Adaylarının Görüşleri

Kapıcı H. Ö., İlhan G. O.

I. Ulusal Yükseköğretimde Eğitim Araştırmaları ve Uygulamaları Kongresi, İstanbul, Turkey, 30 - 31 May 2014

VIII. Examination of Visuals in Middle School Science Textbooks

Kapıcı H. Ö., Savaşçı Açıklan F.

International Conference on Education in Mathematics, Science and Technology, Konya, Turkey, 01 May 2014

IX. Turkish Science Teachers Views About Models

Kapıcı H. Ö., Savaşçı Açıklan F.

IV. International Congress of Educational Research, İstanbul, Turkey, 6 - 10 May 2013, pp.1-12

Supported Projects

İçen M., Şahal M., KAPICI H. Ö., Project Supported by Other Official Institutions, Biz Yeteriz 2020, 2020 - 2020
İçen M., Kapıcı H. Ö., Project Supported by Other Official Institutions, Sizin İçin Varız, 2018 - 2018
Görgülü Arı A., Umdü Topsakal Ü., Hayır Kanat M., Coştü B., Kapıcı H. Ö., TUBITAK Project, Yarınımı Bugünden
Düşünüyorum; Ekoyıldızlar İş Başında, 2017 - 2018

Memberships / Tasks in Scientific Organizations

European Association for Research on Learning and Instruction, Member, 2017 - Continues
European Science Education Research Association, Member, 2017 - Continues

Metrics

Publication: 39
Citation (WoS): 27
Citation (Scopus): 35
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

Next-Lab Winter School, Working Group, Enschede, Netherlands, 2019
Go-Lab Summer School, Working Group, Athens, Greece, 2019
Go-Lab Winter School, Working Group, Lisbon, Portugal, 2019