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Publons / Web Of Science ResearcherID: A-8096-2018

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Education Information

Doctorate, The University of Warwick, United Kingdom 1998 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Prospective physics teachers' understanding of electricity and magnetism : a study of three cases, The University Of Warwick, 2005

Research Areas

Test and Measurement in Education, Educational Technology, Education in Physics, Teacher Training, Teacher Training in Science and Math. at Second. Sch. Lev.

Academic Titles / Tasks

Lecturer PhD, Middle East Technical University, Faculty of Education, Mathematics and Science Education, 2006 - Continues

Academic and Administrative Experience

Middle East Technical University, Faculty of Education, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, 2010 - 2016

Courses

Öğretim Teknolojileri ve Materyal Geliştirme, Undergraduate, 2023 - 2024

METHODS OF SECONDARY SCIENCE TEACHING I, Undergraduate, 2020 - 2021

ASSESSMENT OF LEARNING IN SCIENCE AND MATHEMATICS, Undergraduate, 2020 - 2021

Reading from Physics Education Literature, Doctorate, 2016 - 2017

Advising Theses

ERBAŞ A. K., YILDIRIM U., Physics teachers beliefs related to Turkish high school physics curriculum: A multiple case study, Doctorate, S.KAPUCU(Student), 2012

YILDIRIM U., ÖZDEMİR Ö. F., Assessment of high school physics teachers' pedagogical content knowledge related to the teaching of electricity, Doctorate, E.BAĞÇIVAN(Student), 2012

ERBAŞ A. K., YILDIRIM U., Physics teachers' beliefs related to Turkish high school physics curriculum: a multiple case study, Doctorate, S.Kapucu(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

I. Effects of gender cognitive development and socioeconomic status on physics achievement

YILDIRIM U., ERYILMAZ A.

Hacettepe Universitesi Egitim Fakultesi Dergisi-Hacettepe University Journal Of Education, vol.15, pp.121-126, 1999 (SSCI)

Articles Published in Other Journals

I. Physics Teachers' Behavioral Control and Normative Beliefs about Teaching Physics According to the National High School Physics Curriculum in Turkey

Kapucu S., Yıldırım U.

INTERNATIONAL JOURNAL OF ENVIRONMENTAL AND SCIENCE EDUCATION, vol.9, pp.133-157, 2014 (Peer-Reviewed Journal)

II. Physics Teachers' Beliefs about the Attainment of Skill Objectives and the Extent of These Beliefs' Reflection on Teachers' Instructional Practices

Kapucu S., Yıldırım U.

International Journal of New Trends in Arts, Sports and Science Education, vol.2, pp.10-22, 2013 (Peer-Reviewed Journal)

III. A Multiple Case Study: Turkish Physics Teachers' Teaching Beliefs related to National High School Physics Curriculum

KAPUCU S., YILDIRIM U.

Eurasian Journal of Physics and Chemistry Education, vol.5, pp.120-143, 2013 (Peer-Reviewed Journal)

IV. Prospective Physics Teachers Views on Their Knowledge about the New Concepts in Turkish High School Physics Curricula

Kapucu S., Yıldırım U.

European Journal of Physics Education, vol.3, pp.1-14, 2012 (Peer-Reviewed Journal)

V. The Effects of Gender Cognitive Development and Socioeconomic Status on Physics Achievement

YILDIRIM U., ERYILMAZ A.

Hacettepe Journal of Education, vol.15, pp.121-126, 1999 (Peer-Reviewed Journal)

Books & Book Chapters

I. Kavramsal Fizik

Güneş B., Ateş S., Eryılmaz A., Özdemir Ö. F., Korur F., Taşlıdere E., Yerdelen Damar S., Kaltakçı Gürel D., Özdemir E., Üstün U., et al.

Palme Yayın Dağıtım, Ankara, 2021

II. Ortaöğretim FİZİK 9 Sınıf

YILDIRIM U., MERCAN F. Ç., KARAMUSTAFAOĞLU O., DEĞİRMENCİ S., DURU M. K., TURGUT H., DUMLUDAĞ F., OKAY C., SAKA Y.

Devlet Kitapları, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Preservice physics teachers'xx challenges in implementing context-based argument driven inquiry activities**
YILDIRIM U., DEMİRTAŞ D.
GIREP-MPTL 2018: Research and Innovation in Physics Education: Two Sides of the Same Coin, 9 - 13 July 2018
- II. **Pre-service physics teachers'xx challenges in designing physics experiments and while guiding their peers carry out these experiments**
YILDIRIM U., GARİP B.
GIREP-MPTL 2018, Research and Innovation in Physics Education: Two sides of the same coin, 9 - 13 July 2018
- III. **Türkiye'de Lise Öğrencilerinin Fizik Konularındaki Kavram Yanılgılarının Coğrafik Bölgelere Göre Haritalanması**
ERYILMAZ A., ÖZDEMİR Ö. F., YILDIRIM U., ERASLAN F., ERYURT K., GARİP B., DEMİRTAŞ D.
12. ULUSAL FEN BİLİMLERİ VE MATEMATİK EĞİTİMİ KONGRESİ, Turkey, 28 - 30 September 2016
- IV. **Lise Öğrencilerinin Yedi Coğrafik Bölgeye Göre Kavram Yanılgıları Dağılımı ve Öğrencilerin Kavram Yanılgıları Arasındaki İlişki Analizi**
ERYILMAZ A., ÖZDEMİR Ö. F., YILDIRIM U., ERASLAN F., ERYURT K., DEMİRTAŞ D., Garip B.
12. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, 28 September 2016, pp.282
- V. **Lise Öğrencilerinin Kuvvet ve Hareket Konusundaki Kavram Yanılgıları Ve Kinematik Grafiklerini Anlama Konusunda Yaşadığı Zorluklar**
ERYILMAZ A., ÖZDEMİR Ö. F., YILDIRIM U., ERASLAN F., ÖZMEN K., DEMİRTAŞ D., GARİP B.
12. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, 28 September 2016
- VI. **Lise Öğrencilerinin Basit Elektrik Devreleri Ve Geometrik Optik Konusundaki Kavram Yanılgıları**
ERYILMAZ A., ÖZDEMİR Ö. F., YILDIRIM U., ERASLAN F., ERYURT K., DEMİRTAŞ D., Garip B.
12. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, 28 September 2016
- VII. **Türkiye'de Lise Öğrencilerinin Fizik Konularındaki Kavram Yanılgılarının Coğrafik Bölgelere Göre Haritalanması**
ERYILMAZ A., ÖZDEMİR Ö. F., YILDIRIM U., ALPTEKİN F., ÖZMEN K., DEMİRTAŞ D., Garip B.
12. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, 28 September 2016, pp.280
- VIII. **Relationship between pre service physics teachers FCI performance and their feedback on FCI results**
YILDIRIM U., GARİP B., DEMİRTAŞ D.
GIREP EPEC 2015, 6 - 10 July 2015
- IX. **Turkish physics teachers' teaching beliefs related to national high school physics curriculum and reflection of these beliefs in their instructional practices**
KAPUCU S., YILDIRIM U.
5th World Conference on Educational Sciences, Roma, Italy, 5 - 08 February 2013
- X. **Physics teachers' beliefs about the attainment of skill objectives in Turkish high school physics curriculum and to what extent they are reflected in their instructional practices**

KAPUCU S., YILDIRIM U.

New Trends on Global Education Conference, Girne, Cyprus (Kktc), 24 - 26 September 2012, pp.360

XI. **Physics teachers' competencies and the implementation of Turkish physics curriculum**

KAPUCU S., YILDIRIM U.

Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.369

XII. **Factors affecting the implementation of Turkish physics curriculum**

KAPUCU S., YILDIRIM U.

Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.370

XIII. **Fizik öğretmen adaylarının fizik öğretim programındaki yeni kavramlar hakkındaki bilgi seviyeleri**

KAPUCU S., YILDIRIM U.

IX. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, İzmir, Turkey, 23 - 25 September 2010, pp.84

XIV. **Preservice physics teachers knowledge about and use of students pre instructional thinking**

YILDIRIM U., ÖZDEMİR Ö. F.

European Science Education Research Association, 31 August - 04 September 2009

XV. **Pre-service physics teachers'x difficulties in constructing mathematical models of simple harmonic motion**

SenZeytun A., ÇETİNKAYA B., YILDIRIM U., ERBAŞ A. K.

14th International Conference on the Teaching of Mathematical Modelling and Applications, 27 - 31 July 2009

XVI. **Pre-service physics teachers' difficulties in constructing mathematical models of simple harmonic motion**

Şen Zeytun A., Çetinkaya B., Yıldırım U., Erbaş A. K.

14th International Conference on the Teaching of Mathematical Modelling and Applications, Hamburg, Germany, 27 - 31 July 2009

XVII. **Pre service mathematics teachers development of mathematical models Motion with simple pendulum**

BAŞ S., ÇETİNKAYA B., YILDIRIM U., ERBAŞ A. K.

14th International Conference on the Teaching of Mathematical Modelling and Applications, Hamburg, Germany, 27 - 31 July 2009, pp.16

Supported Projects

YILDIRIM U., ERYURT K., ÖZDEMİR Ö. F., ERYILMAZ A., GARİP B., DEMİRTAŞ D., Project Supported by Higher Education Institutions, Türkiye'de Lise Öğrencilerinin Fizik Konularındaki Kavram Yanılgılarının Coğrafik Bölgelere göre Haritalanması, 2013 - 2013

Metrics

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