

## Personal Information

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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, Middle East Technical University, Faculty of Education, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2006 - Continues

## Professional Experience

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

## 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

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

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

- **Effects of gender cognitive development and socioeconomic status on physics achievement**  
YILDIRIM U., ERYILMAZ A.

## Articles Published in Other Journals

- **Physics Teachers' Behavioral Control and Normative Beliefs about Teaching Physics According to the National High School Physics Curriculum in Turkey**  
KAPUCU S., YILDIRIM U.  
International Journal of Environmental and Science Education, vol.9, pp.133-157, 2014 (Other Refereed National Journals)
- **Physics Teachers' Beliefs about the Attainment of Skill Objectives and the Extent of These Beliefs' Reflection on Teachers' Instructional Practices**  
KAPUCU S., YILDIRIM U.  
International Journal of New Trends in Arts, Sports and Science Education, vol.2, pp.10-22, 2013 (Refereed Journals of Other Institutions)
- **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 (Refereed Journals of Other Institutions)
- **Prospective Physics Teachers Views on Their Knowledge about the New Concepts in Turkish High School Physics Curricula**  
KAPUCU S., YILDIRIM U.  
European Journal of Physics Education, vol.3, pp.1-14, 2012 (Refereed Journals of Other Institutions)
- **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 (Other Refereed National Journals)

## Book & Book Chapters

- **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
- **Ortaöğretim FİZİK 9 Sınıf**  
YILDIRIM U., MERCAN F. Ç. , KARAMUSTAFAOĞLU O., DEĞİRMENCİ S., DURU M. K. , TURGUT H., DUMLUDAĞ F., Kübra E., GARİP B., Yeliz Ş.  
MEB, Devlet Kitapları, 2014

## Refereed Congress / Symposium Publications in Proceedings

- **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
- **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
- **Lise Öğrencilerinin Basit Elektrik Devreleri Ve Geometrik Optik Konusundaki Kavram Yanılgıları**  
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

- **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

- **Lise Öğrencilerinin Kuvvet Ve Hareket Konusundaki Kavram Yanılgıları Ve Kinematik Grafiklerini Anlama Konusunda Yaşadığı Zorluklar**

ERYILMAZ A., ÖZDEMİR Ö. F. , YILDIRIM U., Eraslan F., Kübra E., GARİP B., DEMİRTAŞ D.

12. ULUSAL FEN BİLİMLERİ VE MATEMATİK EĞİTİMİ KONGRESİ, Turkey, 28 - 30 September 2016

- **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., GARİP B., DEMİRTAŞ D.

12. ULUSAL FEN BİLİMLERİ VE MATEMATİK EĞİTİMİ KONGRESİ, Turkey, 28 - 30 September 2016

- **Pre Service Physics Teachers Problems In Designing Physics Experiments And Guiding Others Carry Out These Experiments**

Yıldırım U.

GIREP 2016, Krakow, Poland, 30 August - 03 September 2016

- **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

- **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

- **Pre-service physics teachers’xx 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

- **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