

## Prof. NİMET REMZİYE ERGÜL

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Turkey 1988 - 1995

Postgraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Turkey 1984 - 1987

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1979 - 1984

### Research Areas

Social Sciences and Humanities, Education

### Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, EĞİTİM FAKÜLTESİ, 2015 - Continues

Lecturer, Bursa Uludağ University, EĞİTİM FAKÜLTESİ, TEMEL EĞİTİM, 1996 - 1998

Research Assistant, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 1984 - 1995

### Courses

YAPILANDIRMACI ÖĞRENME KURAMI İLE FEN ÖĞRETİMİ, Postgraduate, 2017 - 2018

BİLİMSEL SÜREÇ BECERİLERİ ÖĞRETİMİ, Postgraduate, 2017 - 2018

FEN BİLGİSİ EĞİTİMİNDE PROGRAM GELİŞTİRME, Postgraduate, 2017 - 2018

FEN EĞİTİMİNDE PROGRAM GELİŞTİRME VE DEĞERLENDİRME YAKLAŞIMLARI, Doctorate, 2017 - 2018

GENEL FİZİK I LABORATUVARI, Undergraduate, 2017 - 2018, 2016 - 2017

FİZİKTE ÖZEL KONULAR, Undergraduate, 2017 - 2018, 2016 - 2017

FEN EĞİTİMİNDE KAVRAM YANILGILARI VE ÇÖZÜM YÖNTEMLERİ, Doctorate, 2017 - 2018

FEN BİLİMLERİ EĞİTİMİNDE KAVRAM ÖĞRETİMİ, Doctorate, 2017 - 2018

GENEL FİZİK I, Undergraduate, 2017 - 2018, 2016 - 2017

MODERN FİZİK, Undergraduate, 2017 - 2018, 2016 - 2017

GENEL FİZİK II, Undergraduate, 2017 - 2018, 2016 - 2017

GENEL FİZİK II LABORATUVARI, Undergraduate, 2016 - 2017

YAPILANDIRMACI ÖĞRENME KURAMI İLE KAVRAM ÖĞRETİMİ, Postgraduate, 2016 - 2017

FEN EĞİTİMİNDE PROGRAM GELİŞTİRME, Postgraduate, 2016 - 2017

## Advising Theses

ERGÜL N. R., The effect of the digital story workshop on middle school students' 21st century skills and academic achievement, Postgraduate, B.Yıldız(Student), 2021

ERGÜL N. R., STEM teaching the subject of pressure in eighth grade – a study of the implementation of the learning model's impact on students' success and entrepreneurial skills, Postgraduate, E.Turgutalp(Student), 2021

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

### I. Momentum Kavramına Yönelik Bilgiyi Oluşturma Süreci

Ergül N. R.

EDUCATIONAL SCIENCES-THEORY & PRACTICE, vol.13, no.3, pp.1890-1901, 2013 (SSCI)

### II. THE PROCESS OF KNOWLEDGE CONSTRUCTION ABOUT THE CONCEPT OF ELECTRICAL POWER

ERGÜL N. R., Cigrik E.

HACETTEPE UNIVERSİTESİ EĞİTİM FAKÜLTESİ DERGİSİ-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, vol.28, no.1, pp.153-164, 2013 (SSCI)

## Articles Published in Other Journals

### I. Examining The Relationship Between Science Teachers' Attitudes Towards Distance Education And Their Science Teaching Self-Efficacy Beliefs

ERCOŞKUN D., Ergül N. R.

Milli Eğitim, vol.52, no.240, pp.2829-2862, 2023 (Scopus)

### II. The Conceptual Perceptions of Prospective Science Teachers on the Free Fall Motion

Çalış S., Ergül N. R.

Uluslararası Eğitim Bilimleri Dergisi, vol.10, no.36, pp.102-126, 2023 (Peer-Reviewed Journal)

### III. Case Study on Science Teacher Candidates' Understanding of the Wave Concept

Çalış S., Ergül N. R.

Education Quarterly Reviews, vol.5, no.2, pp.361-372, 2022 (Peer-Reviewed Journal)

### IV. Fen Bilgisi Öğretmen Adaylarının Yenilenebilir Enerji ve Kaynakları Hakkındaki Bilgi Düzeylerinin İncelenmesi

Ergül N. R., Çalış S.

Uludağ Üniversitesi Eğitim Fakültesi Dergisi, vol.35, no.1, pp.107-125, 2022 (Peer-Reviewed Journal)

### V. Investigation of High School Students' Opinions About Science Courses During Distance Education

Çalış S., Ergül N. R.

OPEN JOURNAL FOR EDUCATIONAL RESEARCH (OJER), vol.6, no.2, pp.139-154, 2022 (Peer-Reviewed Journal)

### VI. Investigation of Teacher Candidates' Skills in Creating Knowledge-Based Life Problems Based on STEM Lesson Plan and Suggesting Solution

ÇALIŞ S., ERGÜL N. R.

European Journal of Physics Education, vol.12, no.4, pp.1309-7202, 2021 (Peer-Reviewed Journal)

### VII. Examination of High School Students' Engineering Design Skills: Example of Electromagnetism\*

ERGÜL N. R., ÇALIŞ S.

Journal of Turkish Science Education, vol.18, no.4, pp.765-780, 2021 (Scopus)

### VIII. Investigation of STEM Competencies of Teacher Candidates

ERGÜL N. R.

. European Journal of Physics Education, vol.12, no.1, pp.38-55, 2021 (Peer-Reviewed Journal)

### IX. Self-Assessment Of Preservice Teachers About Designing Materials For Physics And Chemistry Courses

ÇALIŞ S., ERGÜL N. R.

Uludağ Üniversitesi Eğitim Fakültesi Dergisi, vol.33, no.3, pp.696-714, 2020 (Peer-Reviewed Journal)

- X. **Determining science teacher candidates' comprehension level of equations**  
ÇALIŞ S., ERGÜL N. R.  
Journal of Technology and Science Education, vol.9, no.3, pp.467, 2019 (Scopus)
- XI. **Pre-service Science Teachers'xx Construction and Interpretation of Graphs.**  
ERGÜL N. R.  
Universal Journal of Educational Research, vol.6, no.1, pp.139-144, 2018 (Scopus)
- XII. **Examining of the non-routine problem-solving skills of prospective science teachers as part of the understand the problem and the solution plan**  
ERGÜL N. R.  
International Journal of Learning and Teaching, vol.9, no.4, pp.425-430, 2017 (Peer-Reviewed Journal)
- XIII. **DETERMINATION OF HIGH SCHOOL STUDENTS'xx VIEWS ON ELECTRONIC WASTE POLLUTIONİ**  
ERGÜL N. R., ÇALIŞ S.  
European Journal of Education Studies, vol.3, no.7, pp.72-92, 2017 (Peer-Reviewed Journal)
- XIV. **The Effect Of Project Based Learning On Students ScienceSuccess**  
ERGÜL N. R., KESKİN KARGIN E.  
Procedia - Social and Behavioral Sciences, no.136, pp.537-541, 2014 (Peer-Reviewed Journal)
- XV. **The Views Of Teacher Candidates On The Project Management Competencies**  
ÇALIŞ S., ERGÜL N. R.  
Procedia - Social and Behavioral Sciences, vol.46, pp.5677-5681, 2012 (Peer-Reviewed Journal)
- XVI. **The Effects of inquiry- based science teaching on elementary school students Science process skills and science attitudes**  
Ergül N. R., Şimşekli Y., Çalış S., Özdilek Z., İlkörücü Ş., Şanlı M.  
BULGARIAN JOURNAL OF SCIENCE AND EDUCATION POLICY, vol.5, no.1, pp.48-68, 2011 (Peer-Reviewed Journal)
- XVII. **Interpretation of the results of the special theory of relativity on the base of classical mechanics**  
Olimjon K., Ahmadjon B., ERGÜL N. R.  
Lat. Am. J. Phys. Educ., vol.5, no.5, pp.60-61, 2011 (Peer-Reviewed Journal)
- XVIII. **The investigation effect of using webquest on logical thinking ability in science education**  
Ersen Ç., ERGÜL N. R.  
Procedia - Social and Behavioral Sciences, vol.2, no.2, pp.4918-4922, 2010 (Peer-Reviewed Journal)
- XIX. **Elementary Pre Service Teachers Opinions on Teaching Science**  
ERGÜL N. R.  
Bulgarian Journal of Science and Education Policy (BJSEP), vol.3, pp.153-172, 2009 (Peer-Reviewed Journal)
- XX. **The investigation of the effect of simulation based teaching on the student achievement and attitude in electrostatic induction**  
Ersen Ç., ERGÜL N. R.  
. Procedia - Social and Behavioral Sciences, vol.1, no.1, pp.2470-2474, 2009 (Peer-Reviewed Journal)
- XXI. **The evaluation of the self assesment and the knowledges of prospective elementary school teacherabout the dimensional analysis and unit conversion**  
ERGÜL N. R.  
Management and Education, University Prof.Dr. Assen Zlatarov, vol.4, no.3, pp.80-85, 2008 (Peer-Reviewed Journal)
- XXII. **A study Investigating into the views of pre service science and elementary teachers on the use of webquest in science education**  
Ersen Ç., ERGÜL N. R.  
Management and Education, University Prof.Dr. Assen Zlatarov, vol.4, no.3, pp.31-40, 2008 (Peer-Reviewed Journal)
- XXIII. **Öğretmen adaylarının fen öğretiminde matematik bilgiyi laboratuvar ölçüm araçlarını kullanmalarında kendilerine olan güvenlerini belirleme üzerine bir inceleme**  
Bulunuz N., Ergül N. R.  
Uludağ Üniversitesi Eğitim Fakültesi Dergisi, vol.14, no.1, pp.65-71, 2001 (Peer-Reviewed Journal)

- XXIV. **Öğretmen Adaylarının Fen Öğretiminde Matematik Bilgiyi ve Laboratuvar Ölçüm Araçlarını Kullanmalarında Kendilerine olan Güvenlerini Belirleme Üzerine Bir İnceleme**  
BULUNUZ N., ERGÜL N. R.  
U.Ü Eğitim Fakültesi Dergisi, vol.14, pp.65-71, 2001 (Peer-Reviewed Journal)
- XXV. **Fen Bilgisi Öğretiminde İletişim ve Önemi**  
ERGÜL N. R., GÜLEÇ S.  
PAMUKKALE UNIVERSITESI EGITIM FAKULTESI DERGISI-PAMUKKALE UNIVERSITY JOURNAL OF EDUCATION, no.6, pp.171-177, 1999 (ESCI)
- XXVI. **A New Approach to the Determination of Total Electron Density by Atomic Form Factor**  
Kaynak Z. G., Ergül N. R., Cangül İ. N.  
Sci.Int.(Lahore), vol.11, no.1, pp.1-2, 1999 (Peer-Reviewed Journal)
- XXVII. **Fen Bilgisi Öğretimi Programının Değerlendirilmesi**  
ERGÜL N. R.  
U.Ü. Eğitim Fakültesi Dergis, vol.12, no.1, pp.231-238, 1999 (Peer-Reviewed Journal)
- XXVIII. **Çernobil Kazası Sonrası Bursa ve Çevresi Atmosferinde Fisyon Ürünlerinin İncelenmesi**  
Cihan Ö., KAYNAK Z. G., ÖZMUTLU E. N., CENGİZ A., ERGÜL N. R.  
Uludağ Üniversitesi Fen Bilimleri Enstitüsü, Bilimsel Raporlar Serisi 1, no.1, pp.1-10, 1989 (Non Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Determination of Science Teacher Candidates' Levels of Interpretation of Graphical Instruments: an Example of Projectile Motion**  
ERGÜL N. R., ÇALIŞ S.  
in: Current Research in Education - 2022, ONUR HAZAL, HALİL TAŞ, Editor, GECE PUBLISHING, Ankara, pp.1-15, 2022
- II. **CONTEXT-BASED PROBLEM-CONSTRUCTING SKILLS OF SCIENCE TEACHER CANDIDATES**  
ERGÜL N. R.  
in: Current Research in Education, Onur Zahal, Halil Taş, Editor, Gece Kitaplığı, Ankara, pp.16-24, 2022
- III. **DETERMINATION OF SCIENCE TEACHER CANDIDATES' LEVELS OF INTERPRETATION OF GRAPHICAL INSTRUMENTS: AN EXAMPLE OF PROJECTILE MOTION**  
ERGÜL N. R., ÇALIŞ S.  
in: Current Research in Education - 2022, Onur Zahal, Halil Taş, Editor, Gece Kitaplığı, Ankara, pp.1-15, 2022
- IV. **Science Teachers' Perspective on Metal-Nonmetallic Concept: A Qualitative Study**  
ÇALIŞ S., ERGÜL N. R.  
in: Recent Researches in Education, Recep Efe, Irina Koleva and Emin Atasoy, Editor, Cambridge Scholars Publishing, Cambridge, pp.593-601, 2018
- V. **Investigation of Experimentation Knowledge and Skills of Secondary School Students**  
ERGÜL N. R., ÇALIŞ S.  
in: Current Trends in Educational Sciences, Recep Efe, Irina Koleva, Emin Atasoy, Violeta Kotseva, Editor, ST. KLIMENT OHRIDSKI UNIVERSITY PRESS SOFIA 2017 ST. KLIMENT OHRIDSKI UNIVERSITY PRESS SOFIA 2017, Sofya, pp.305-311, 2017
- VI. **Overview of the experimentation procedures and reflections on science education**  
ERGÜL N. R.  
in: Developments in Educational Sciences, Recep Efe, Irina Koleva, Emin Atasoy, İsa Cürebal, Editor, St Kliment Ohridski University Press, Sofya, pp.652-664, 2016
- VII. **Determining Knowledge Level of Pre-Service Teachers on Nanoscience and Nanotechnology**  
ERGÜL N. R., ÇALIŞ S.  
in: Education and Science in a Globalizing World a case study of Turkey, Ilia Christov, Recep Efe, Emin Atasoy, Editor, Paradigma, Sofya, pp.288-297, 2012

- VIII. **Okul Öncesi Dönemde Fen Öğretimi**  
ERBAŞ S., ERGÜL N. R., ŞİMŞEK Lİ Y., ÖZDİLEK Z.  
Seçkin, Bursa, 2002

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

- I. **Dijital Öykü Atölyesinin Ortaokul Öğrencilerinin 21. Yüzyıl Becerileri ve Öğrenci Başarılarına Etkisi**  
YILDIZ ÇELİK B., ERGÜL N. R.  
4. Uluslararası Fen, Matematik, Girişimcilik ve Teknoloji Eğitimi Kongresi, Bursa, Turkey, 18 May 2023
- II. **Uzaktan Eğitim Sürecinde Lise Öğrencilerinin Fen Bilgisi Derslerine Yönelik Görüşlerinin İncelenmesi**  
ERGÜL N. R.  
The 13th International Scientific Research Congress, Ankara, Turkey, 11 - 12 March 2022, pp.69-70
- III. **Fen Bilgisi Öğretmen Adaylarının Yenilenebilir Enerji ve Kaynakları Hakkındaki Bilgileri**  
ÇALIŞ S., ERGÜL N. R.  
7. Ulusal Kimya Eğitimi Kongresi'nde (UKEK 2021), Nevşehir, Turkey, 24 September 2021
- IV. **8. Sınıf basıncı konusunda stem öğretme - öğrenme modelinin uygulanmasının öğrenci başarısına ve girişimcilik becerisine etkisinin araştırılması**  
Turgutalp E., ERGÜL N. R.  
3. Uluslararası Fen, Matematik, Girişimcilik ve Teknoloji Eğitimi Kongresi 2021, Bursa, Turkey, 30 September - 03 October 2021, pp.159
- V. **Fen Bilgisi Öğretmen adaylarının denklemleri anlama düzeylerinin belirlenmesi**  
ÇALIŞ S., ERGÜL N. R.  
UFBMEK 2018 13.Ulusal Matematik Eğitimi ve Fen Bilimleri Kongresi, Turkey, 4 - 06 November 2018
- VI. **Öğretmen Adaylarının Fizik/Kimya Derslerinin Öğretiminde Materyal Tasarlamaya Yönelik Öz Değerlendirmeleri**  
ERGÜL N. R., ÇALIŞ S.  
International Conference on Science, Mathematics, Entrepreneurship and Technology Education, 12 - 14 April 2019, pp.655-656
- VII. **Investigation of Engineering Design Skills of High School Students: Electromagnet Example**  
ERGÜL N. R., ÇALIŞ S.  
International Conference on Science, Mathematics, Entrepreneurship and Technology Education, İzmir, Turkey, 12 - 14 April 2019, pp.376-377
- VIII. **A key Concept in our Lives: Tribology**  
ERGÜL N. R.  
" Globets: An International Conference On Education, Technology And Science, 6 - 09 May 2018
- IX. **Investigation of STEM Competencies of Teacher Candidates**  
ERGÜL N. R.  
10. World Conference on Educational Sciences, 1 - 03 February 2018
- X. **Examining of the non-routine problem-solving skills of prospective science teachers as part of the understand the problem and the solution plan**  
ERGÜL N. R.  
9 th World Conference on Educational Sciences, Nice, France, 1 - 04 February 2017, vol.9, pp.425-430
- XI. **DETERMINATION OF HIGH SCHOOL STUDENTS'xx VIEWS ON ELECTRONIC WASTE POLLUTION(Lise Öğrencilerinin Elektronik Atık Kirliliği Konusundaki Görüşlerinin Belirlenmesi)**  
ERGÜL N. R., ÇALIŞ S.  
26th International Conference on Educational Sciences ICES-UEBK 2017, Antalya, Turkey, 20 - 23 April 2017, pp.1599-1600
- XII. **Pre Service Science Teachers construction and interpretations of Graphs**  
ERGÜL N. R.  
ISNITE 2016, Savonlinna, Finland, 30 August - 01 September 2016

- XIII. **Ortaokul Öğrencilerinin Deney Yapma Bilgi Ve Becerilerinin İncelenmesi**  
ERGÜL N. R.  
WCES 2016, Madrit, Spain, 4 - 06 February 2016
- XIV. **Determination of Science Teacher Candidates' Views on Electronic waste Pollution**  
ÇALIŞ S., ERGÜL N. R.  
5th World Conference on Learning, Teaching and Educational Leadership, WCLTA 2014, Prague, Czech Republic, 29 - 31 October 2014, vol.186, pp.261-268
- XV. **The Effect Of Project Based Learning On Students' Science Success**  
ERGÜL N. R., Kargin E. K.  
Global Conference on Linguistics and Foreign Language Teaching (LINELT), Antalya, Turkey, 5 - 07 December 2013, vol.136, pp.537-541
- XVI. **Yedinci sınıf öğrencilerinin çözünme olayı hakkındaki görüşleri ve kavram yanılgılarına yönelik bir çalışma**  
ÖZDİLEK Z., ERGÜL N. R.  
XII. Eğitim Bilimleri Kongresi, Antalya, Turkey, 15 - 18 October 2003, vol.3, pp.1681-1693
- XVII. **İlköğretim 8. sınıf öğrencilerine Fen Bilgisi Dersi kapsamında verilen çevre eğitiminin çevre ve çevre koruma bilincine etkisinin incelenmesi**  
ŞİMŞEKLİ Y., ERGÜL N. R., ŞANLI M.  
X. Ulusal Eğitim Bilimleri Kongresi, Bolu, Turkey, 7 - 09 June 2001, vol.3, pp.1592-1596
- XVIII. **İlköğretim okulu 1 kademe öğrencilerinin matematiksel dünyası ve matematik bilgileri kullanma becerileri**  
YAZGAN Y., ERGÜL N. R.  
IX. Ulusal Eğitim Bilimleri Kongresi, Turkey, 27 - 29 September 2000, pp.100

## Metrics

Publication: 56  
Citation (WoS): 14  
Citation (Scopus): 4  
H-Index (WoS): 1  
H-Index (Scopus): 1

## Non Academic Experience

Uludağ Üniversitesi