

## Prof. MUSTAFA EROL

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### International Researcher IDs

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ScopusID: 57219219635

Yoksis Researcher ID: 2747

### Education Information

Doctorate, University of Lancaster, Yoğun Madde Fiziği, United Kingdom 1989 - 1992

Undergraduate, Ege University, Faculty Of Science, Fizik Bölümü, Turkey 1982 - 1986

### Foreign Languages

English, C1 Advanced

### Research Areas

Social Sciences and Humanities, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Ege University, Faculty Of Science, Fizik Bölümü, 1987 - 1987

### Advising Theses

Erol M., Mekanik öğretiminde Arduino tabanlı STEM ve Algodoo tabanlı simülasyon'un etkilerinin araştırılması, Doctorate, A.ÇOBAN(Student), 2023

EROL M., The effects of argumentation-based teaching on internalising of electrical field and potential issues, Postgraduate, İ.ÖZDEYİŞ(Student), 2021

EROL M., Investigation of effects of STEM activities on conceptual understanding and motivation: Waves in physics, Postgraduate, Ö.OFLAZ(Student), 2019

EROL M., Investigation of the effects of problem based education (PBT) on teaching of "insufficiencies of classical physics" in quantum physics, Postgraduate, A.ÇOBAN(Student), 2018

EROL M., Effects of cooperative learning on students? academic achievement and achievement motivation concerning

undergraduate general physics labworks, Postgraduate, D.DÖRTLEMEZ(Student), 2010

EROL M., Effects of electricity instruction by modeling on conceptual understanding, academic achievement and epistemological beliefs, Doctorate, E.BİLAL(Student), 2010

EROL M., Investigating effects of strategy instruction in cooperative learning groups concerning undergraduate physics labwork, Postgraduate, F.KEBAN(Student), 2010

EROL M., Uncertainty principle of quantum physics: Effects of hybrid teaching on academic achievement, Postgraduate, E.ÖZDEMİR(Student), 2008

EROL M., The effects of problem solving strategies teaching on the physics achievement, attitude, self-efficacy, and the strategy usage, Doctorate, S.ÇALIŞKAN(Student), 2007

EROL M., Comparison of effects of traditional teaching method with cooperative learning method relating undergraduate magnetism topics, Doctorate, Z.TANEL(Student), 2006

EROL M., A Study on curriculum development on electricity, magnetism and electronic for high school physics courses, Postgraduate, T.GÖK(Student), 2002

EROL M., Curriculum design of quantum physics course: The harmonic oscillator case, Postgraduate, S.ÇALIŞKAN(Student), 2002

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

- I. **STEM Education of Kinematics and Dynamics Using Arduino**  
Çoban A., Erol M.  
PHYSICS TEACHER, vol.60, no.259, pp.289-291, 2022 (SCI-Expanded)
- II. **EFFECT OF TEACHING VIA MODELING ON ACHIEVEMENT AND CONCEPTUAL UNDERSTANDING CONCERNING ELECTRICITY**  
BİLAL ÖNDER E., EROL M.  
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.11, no.3, pp.236-247, 2012 (SSCI)
- III. **INSTRUCTION OF PROBLEM SOLVING STRATEGIES: EFFECTS ON PHYSICS ACHIEVEMENT AND SELF-EFFICACY BELIEFS**  
ÇALIŞKAN S., SEZGİN SELÇUK G., EROL M.  
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.9, no.1, pp.20-34, 2010 (SSCI)
- IV. **Quantum Entanglement: Fundamentals and Relations with Consciousness/Mind**  
Erol M.  
NEUROQUANTOLOGY, vol.8, no.3, pp.390-402, 2010 (SCI-Expanded)
- V. **Schrodinger Wave Equation and Function: Basics and Concise Relations with Consciousness/Mind**  
Erol M.  
NEUROQUANTOLOGY, vol.8, no.1, pp.101-109, 2010 (SCI-Expanded)
- VI. **Absorption and emission of acoustic phonons by a two-dimensional electron gas**  
Erol M.  
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, vol.225, no.2, pp.369-377, 2001 (SCI-Expanded)
- VII. **Effect of carrier concentration dependant mobility on the performance of high electron mobility transistors**  
EROL M.  
Turkish Journal of Physics, vol.25, no.2, pp.137-142, 2001 (SCI-Expanded)
- VIII. **Energy relaxation by hot carriers in wurtzite GaN epilayers**  
Erol M.  
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.50, no.7, pp.851-855, 2000 (SCI-Expanded)
- IX. **Temperature dependence of transport characteristics of wurtzite GaN epilayers**  
Erol M.  
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.50, no.5, pp.665-670, 2000 (SCI-Expanded)
- X. **A simple method to determine carrier concentration dependence of mobility in a GaAs Modfet structure**

EROL M.

Turkish Journal of Physics, vol.20, no.3, pp.263-268, 1996 (SCI-Expanded)

- XI. **MEASUREMENT OF ENERGY-LOSS FROM A HEMT STRUCTURE BY OBSERVING EMITTED PHONONS**  
WIGMORE J., EROL M., SAHRAOUITAHAR M., ARI M., WILKINSON C., DAVIES J., HOLLAND M., STANLEY C.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.8, no.3, pp.322-326, 1993 (SCI-Expanded)
- XII. **EMISSION AND ABSORPTION OF PHONONS BY THE 2-DIMENSIONAL ELECTRON-GAS IN A GAAS MODFET STRUCTURE**  
WIGMORE J., EROL M., SAHRAOUITAHAR M., WILKINSON C., DAVIES J., STANLEY C.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.6, no.9, pp.837-840, 1991 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Measurement of specific heat by using non-isolating container and Arduino: a novel teaching method**  
EROL M.  
PHYSICS EDUCATION, vol.59, 2024 (Scopus)
- II. **Measurement of Specific Heat of Organic Materials Using Non-Isolating Container and Arduino**  
EROL M., GÖL D.  
Journal of Physics Theories and Applications, vol.7, no.2, pp.177-190, 2023 (Peer-Reviewed Journal)
- III. **Mathematical Modeling and Teaching of Outer Magnetic Field of a Solenoid Using Smartphones**  
EROL M., KARA A.  
World Scientific Pub Co Pte Ltd, vol.5, 2023 (Peer-Reviewed Journal)
- IV. **Measurement of spring constant by means of Arduino: A STEM teaching proposal**  
EROL M., Navruz Y. E.  
Momentum Physics Education Journal, vol.7, no.2, pp.269-278, 2023 (Peer-Reviewed Journal)
- V. **Teaching large angle pendulum via Arduino based STEM education material**  
EROL M.  
PHYSICS EDUCATION, vol.58, no.045001, pp.1-12, 2023 (Scopus)
- VI. **Resolution of Interconnections Between Will, Free Will and Consciousness**  
EROL M., Erol A.  
International Journal of Progressive Sciences and Technologies, vol.31, no.2, pp.121-129, 2022 (Peer-Reviewed Journal)
- VII. **Foundational Problems of Quantum Theory: Novel Approach to Temporal Probability Density**  
EROL M., Kuzucu M. E.  
Journal of Physics Theory and Applications, vol.6, no.1, pp.1-16, 2022 (Peer-Reviewed Journal)
- VIII. **Measuring thermal conductivity via basic home equipment**  
EROL M., Kuzucu M. E.  
Momentum Physics Education Journal, vol.6, no.1, pp.19-26, 2022 (Peer-Reviewed Journal)
- IX. **Reconsideration of Classical and Quantum Physics Deterministically and Probabilistically: Nanophysicalism**  
EROL M.  
International Journal of Progressive Sciences and Technologies, vol.30, no.2, pp.190-197, 2022 (Peer-Reviewed Journal)
- X. **Teaching kinematics via arduino based STEM education material**  
Çoban A., Erol M.  
Physics Education, vol.57, no.015010, pp.1-10, 2022 (Scopus)
- XI. **Conceptual framework on teaching capacitors and inductors**  
EROL M., BİLAL ÖNDER E.  
Momentum Physics Education Journal, vol.5, no.2, pp.182-193, 2021 (Peer-Reviewed Journal)
- XII. **Teaching Impulse-Momentum Law by Arduino Based STEM Education Material**  
ÇOBAN A., EROL M.

- Physics Educator, vol.3, no.2, 2021 (Peer-Reviewed Journal)
- XIII. **Arduino-based STEM education material: Work-energy theorem**  
 Çoban A., EROL M.  
 Physics Education, vol.56, no.2, 2021 (Scopus)
- XIV. **Resolution of electric field distribution and conductivity in a non-uniform electric field: A teaching proposal**  
 EROL M., Çolak İ. Ö.  
 Momentum Physics Education Journal, vol.5, no.1, 2021 (Peer-Reviewed Journal)
- XV. **Validation of Newton's second law using Arduino: STEM teaching material**  
 Çoban A., EROL M.  
 Physics Education, vol.56, no.1, 2021 (Scopus)
- XVI. **Alternative approach to time evolution of quantum systems**  
 EROL M.  
 PHYSICS ESSAYS, vol.33, no.4, pp.358-366, 2020 (ESCI)
- XVII. **Influence of Problem-Based Learning on Conceptual Understanding and Critical Thinking regarding Quantum Physics**  
 ÇOBAN A., EROL M.  
 Latin American Journal of Physics education, 2020 (Peer-Reviewed Journal)
- XVIII. **Realization of Polarization and Malus's Law Using The Smartphones**  
 Colak I. O., Erol M.  
 JURNAL PENDIDIKAN FISIKA INDONESIA-INDONESIAN JOURNAL OF PHYSICS EDUCATION, vol.16, no.1, pp.9-13, 2020 (ESCI)
- XIX. **Mathematical modelling of electrical potential difference in a non-uniform electric field**  
 EROL M., Çolak İ. Ö.  
 Momentum: Physics Education Journal, vol.4, no.2, 2020 (Peer-Reviewed Journal)
- XX. **Measurement of spring constants of various spring-mass systems by using smartphones: A teaching proposal**  
 EROL M., KAYA Ş., HOCAOĞLU K.  
 Momentum: Physics Education Journal, vol.4, no.1, pp.1-10, 2020 (Peer-Reviewed Journal)
- XXI. **Quantization Analogy of Classical and Quantum Worlds as a Teaching Approach**  
 EROL M., OFLAZ Ö.  
 ELECTRONIC JOURNAL FOR RESEARCH IN SCIENCE MATHEMATICS EDUCATION, vol.24, no.1, pp.100-108, 2020 (Peer-Reviewed Journal)
- XXII. **Conservation of Linear Momentum Using Tracker Analysis: A Teaching Material**  
 EROL M., YILDIZ H., TEKİNGÜNDÜZ M.  
 Physics Educator, vol.2, no.2, 2020 (Peer-Reviewed Journal)
- XXIII. **A Contemporary Approach to Philosophy of Consciousness: NanoPhysicalism**  
 EROL M., Erol A.  
 DIALOGUES IN PHILOSOPHY MENTAL AND NEURO SCIENCES, vol.12, no.2, pp.53-64, 2019 (ESCI)
- XXIV. **Resolution of Brain-Based Consciousness as a Quantum Information Field**  
 EROL M.  
 BRAIN-BROAD RESEARCH IN ARTIFICIAL INTELLIGENCE AND NEUROSCIENCE, vol.10, no.3, pp.41-60, 2019 (ESCI)
- XXV. **Teaching and determination of kinetic friction coefficient using smartphones**  
 Coban A., EROL M.  
 Physics Education, vol.54, no.2, 2019 (Scopus)
- XXVI. **Development of Three-Tier Scale Insufficiencies of Classic Physics Conceptual Comprehension Scale (ICPCCS)**  
 ÇOBAN A., EROL M.  
 Online Science Education Journal, 2019 (Peer-Reviewed Journal)
- XXVII. **Magnetically driven oscillator and resonance: A teaching tool**  
 EROL M., Çolak İ.

- Physics Education, vol.53, no.3, 2018 (Scopus)
- XXVIII. **Detecting position using ARKit II: Generating position-time graphs in real-time and further information on limitations of ARKit**  
DİLEK U., EROL M.  
Physics Education, vol.53, no.3, 2018 (Scopus)
- XXIX. **Detecting Position Using ARKit**  
DİLEK U., EROL M.  
Physics Education, vol.53, no.2, 2018 (Scopus)
- XXX. **Time Dependant Momentum and Time Evolution of Free Quantum Particles**  
EROL M., Çoban A.  
Advances in Physics Theories and Applications, vol.63, pp.57-68, 2017 (Peer-Reviewed Journal)
- XXXI. **Kuantum Fiziğinin Olasılıklı Yapısının Serbest Düşme Analojisi**  
EROL M., Mert B.  
Amasya Üniversitesi eğitim Fakültesi Dergisi, 2017 (Peer-Reviewed Journal)
- XXXII. **Alternative Approach to Time Evaluation of Schrodinger Wave Functions**  
EROL M.  
Scientific Research Publishing, 2012 (Peer-Reviewed Journal)
- XXXIII. **Dalga Fonksiyonu Olasılık Kavramı ve Belirsizlik İlkesinin Öğretiminde Hibrit Modelin Etkisi**  
ÖZDEMİR E., EROL M.  
e-Journal of New World Sciences Academy, 2011 (Peer-Reviewed Journal)
- XXXIV. **KUANTUM FİZİĞİNDE BELİRSİZLİK İLKESİ HİBRİT ÖĞRETİMİN AKADEMİK BAŞARIYA VE KALICILIĞA ETKİSİ**  
ÖZDEMİR E., EROL M.  
Dokuz Eylül Üniversitesi Buca Eğitim Fakültesi, 2011 (Peer-Reviewed Journal)
- XXXV. **Effects of strategy instruction in cooperative learning groups concerning undergraduate Physics labworks**  
FATMA K., EROL M.  
Latin American Journal of Physics Education, 2011 (Peer-Reviewed Journal)
- XXXVI. **Use of analytic rubrics in assesment of classical physics tests**  
Özdemir E., Bilal Önder E., Erol M.  
Balkan Physics Letters, vol.18, no.181037, pp.277-282, 2010 (Peer-Reviewed Journal)
- XXXVII. **Teaching Uncertainty Principle by Hybrid Approach Single Slit Diffraction Experiment**  
EROL M., BİLAL ÖNDER E.  
Latin-American Journal of Physics Education, 2010 (Peer-Reviewed Journal)
- XXXVIII. **FİZİK EĞİTİMİ BİLİMDALI TEZLİ LİSANSÜSTÜ ÖĞRETİM PROGRAMLARININ DEĞERLENDİRİLMESİNE YÖNELİK BİR ÇALIŞMA**  
TANEL Z., EPİK Ö., EROL M.  
Buca Eğitim Fakültesi Dergisi, 2010 (Peer-Reviewed Journal)
- XXXIX. **Development of Strategy Instruction Materials in Physics Laboratories**  
KEBAN F., EROL M.  
Balkan Physics Letters, 2010 (Peer-Reviewed Journal)
- XL. **Effects of the problem solving strategies instruction on the students physics problem solving performances and strategy usage**  
ÇALIŞKAN S., SEZGİN SELÇUK G., EROL M.  
Procedia-Social and Behavioral Sciences, 2010 (Peer-Reviewed Journal)
- XLI. **Modeling Methodology for Teaching Moment of Inertia of a Physical System**  
ÖZDEMİR E., EROL M.  
Balkan Physics Letters, 2010 (Peer-Reviewed Journal)
- XLII. **Hypothesis Experiment Instruction Hei Method For Investigation And Elimination Of Misconceptions On Friction**  
Bilal Önder E., Erol M.

- Balkan Physics Letters, vol.18, no.181036, pp.269-276, 2010 (Peer-Reviewed Journal)
- XLIII. **Influence of hybrid teaching approach on attitude and success concerning electrostatics**  
Bilal E., EROL M.  
Journal of Turkish Science Education, vol.6, no.2, pp.63-74, 2009 (Scopus)
- XLIV. **Investigating students conceptions of some electricity concepts**  
Bilal Önder E., Erol M.  
Latin-American Journal of Physics Education, vol.3, no.2, pp.193-201, 2009 (Peer-Reviewed Journal)
- XLV. **Single slit diffraction experiment Investigating classical and quantum mechanical limits**  
ÖZDEMİR E., EROL M.  
Balkan Physics Letters, 2009 (Peer-Reviewed Journal)
- XLVI. **Development of an Achievement Motivation Scale Towards Physics Laboratories**  
DÖRTLEMEZ D., EROL M.  
Balkan Physics Letters, 2009 (Peer-Reviewed Journal)
- XLVII. **A Modeling Approach For Teaching Gauss's Law**  
Bilal Önder E., Erol M.  
Balkan Physics Letters, vol.15, no.1, pp.1-6, 2009 (Peer-Reviewed Journal)
- XLVIII. **PHYSICS STUDENT TEACHERS ATTITUDES TOWARDS PROBLEM SOLVING EFFECTS OF GENDER ACHIEVEMENT AND GRADE LEVEL**  
ÇALIŞKAN S., SEZGİN SELÇUK G., ŞAHİN M., EROL M.  
Balkan Physics Letters, 2009 (Peer-Reviewed Journal)
- XLIX. **Student Misconceptions Relating Wave Packet and Uncertainty Principle in Quantum Physics**  
ÖZDEMİR E., EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- L. **Developing an Attitude Scale towards Solving Physics Problem**  
ÇALIŞKAN S., SEZGİN SELÇUK G., EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- LI. **Effects of Cooperative Learning on Instructing Magnetism: Analysis of an Experimental Teaching Sequence**  
Tanel Z., Erol M.  
Latin American Journal of Physics Education, vol.2, no.2, pp.124-136, 2008 (Peer-Reviewed Journal)
- LII. **Evaluation of High School Field Teaching Master Programs without Thesis through the Perspective of Student Comments Dokuz Eylul University Sample**  
TANEL R., TANEL Z., SAĞLAM M., KAVCAR N., EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- LIII. **Philosophy and Instruction of Quantum Physics**  
EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- LIV. **The effects of problem solving instruction on physics achievement problem solving performance and strategy use**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
Latin American Journal of Physics Education, vol.2, no.3, pp.151-166, 2008 (Peer-Reviewed Journal)
- LV. **Problem Based Learning in Undergraduate Physics Courses**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- LVI. **A Study about Determining Creativities of Physics Teacher Candidates in Physics**  
AKTAMIŞ H., ÇALIŞKAN S., ERGİN Ö., EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- LVII. **Students Difficulties in Understanding the Concepts of Magnetic Field Strength Magnetic Flux Density and Magnetisation**  
Tanel Z., Erol M.  
Latin American Journal of Physics Education, vol.2, no.3, pp.184-191, 2008 (Peer-Reviewed Journal)

- LVIII. Student Understanding of Capacitors in a DC Circuit**  
BİLAL ÖNDER E., EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- LIX. A New Model Proposal in Regards to Pre service and In service Education for the Secondary School Teacher Training**  
TANEL R., KAYA ŞENGÖREN S., TANEL Z., SAĞLAM M., KAVCAR N., EROL M.  
Balkan Physics Letters Special Issue, 2008 (Peer-Reviewed Journal)
- LX. Effect of the Cooperative Learning on Undergraduate Physics Students? Attitudes towards General Physics Courses**  
Tanel Z., Erol M.  
Balkan Physics Letters Special Issue, no.Special Issue, pp.658-665, 2008 (Peer-Reviewed Journal)
- LXI. Physics self efficacy beliefs of student teachers The relationships with gender and achievement perception**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
Balkan Physics Letters, pp.648-651, 2008 (Peer-Reviewed Journal)
- LXII. Fizik öğretmen adaylarının öğrenme yaklaşımlarının değerlendirilmesi**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
GÜ, Gazi Eğitim Fakültesi Dergisi, vol.27, no.2, pp.25-41, 2007 (Peer-Reviewed Journal)
- LXIII. Influence of Cooperative Learning Techniques on Student Self Confidence and Factors Affecting Learning Physics**  
Tanel Z., Erol M.  
American Institute of Physics, vol.899, pp.848, 2007 (Peer-Reviewed Journal)
- LXIV. Learning Strategies of Physics Teacher Candidates Relationships with Physics Achievement and Class Leve**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
American Institute of Physics, 2007 (Peer-Reviewed Journal)
- LXV. Evaluation of learning approaches for prospective physics teachers**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
Journal of Gazi Education Faculty, 2007 (Peer-Reviewed Journal)
- LXVI. Development of Physics Self Efficacy Scale**  
ÇALIŞKAN S., SEZGİN SELÇUK G., EROL M.  
Sixth International Conference of the Balkan Physical Union, 2007 (Peer-Reviewed Journal)
- LXVII. Student understanding of some quantum physical concepts wave function Schrödinger s wave equation and wave particle duality**  
BİLAL ÖNDER E., EROL M.  
Sixth International Conference of the Balkan Physical Union, 2007 (Peer-Reviewed Journal)
- LXVIII. The Effects of Gender and Grade Levels on TurkishPhysics Teacher Candidates Problem Solving Strategies**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
TÜFED-TUSED, vol.4, no.1, pp.59-67, 2007 (Peer-Reviewed Journal)
- LXIX. HIBRIT YAKLAŞIMLA ELEKTROSTATİK ÖĞRETİMİNİN BAŞARIYA VE TUTUMA ETKİSİ**  
BİLAL ÖNDER E., EROL M.  
Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, 2005 (Peer-Reviewed Journal)
- LXX. Lisans Düzeyindeki Öğrencilerin Manyetik Alan Şiddeti Manyetik Akı Yoğunluğu Ve Manyetizasyon Kavramlarına Yönelik Yanılgıları**  
TANEL Z., EROL M.  
Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, 2005 (Peer-Reviewed Journal)
- LXXI. İşbirlikli öğrenme yönteminin öğrencilerin fizik laboratuvar başarısı ve tutumu üzerindeki etkileri**  
ÇALIŞKAN S., SEZGİN SELÇUK G., EROL M.  
Çağdaş Eğitim Dergisi, 2005 (Peer-Reviewed Journal)
- LXXII. Fizik Öğretmen Adaylarının Problem Çözme Davranışlarının Değerlendirilmesi**

- ÇALIŞKAN S., SEZGİN SELÇUK G., EROL M.  
Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, 2005 (Peer-Reviewed Journal)
- LXXIII. **Öğrencilerin Kuantum Fiziği Anlamalarına Bir Bakış**  
ÇALIŞKAN S., SEZGİN SELÇUK G., EROL M.  
Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, 2005 (Peer-Reviewed Journal)
- LXXIV. **Problem Çözme Stratejilerinin Kullanımı ve Fizik Başarısı**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, 2005 (Peer-Reviewed Journal)
- LXXV. **Fizik Eğitimi Bilim Dalı Tezli Lisansüstü Öğretim Programlarının Değerlendirilmesine Yönelik Bir Çalışma**  
TANEL Z., KARADENİZ Ö., EROL M.  
Buca Eğitim Fakültesi Dergisi, vol.17, pp.273-277, 2005 (Peer-Reviewed Journal)
- LXXVI. **Fizik Öğretmen Adaylarının Öğrenme Yaklaşımları**  
SEZGİN SELÇUK G., ÇALIŞKAN S., EROL M.  
Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, 2005 (Peer-Reviewed Journal)
- LXXVII. **Fizik eğitiminde projeye dayalı laboratuvar çalışmalarına yönelik öğrenci tutumları**  
SEZGİN SELÇUK G., ÇALIŞKAN S., ÇAMLICA H., EROL M.  
Dokuz Eylül Üniversitesi Buca Eğitim Fakültesi, 2002 (Peer-Reviewed Journal)
- LXXVIII. **Some Common Misconceptions in Fundamental Magnetism and Electricity**  
EROL M., ÇALLICA H., AYGÜN M., ÇALIŞKAN S., TANEL R., KAVCAR N.  
Bulg. J. Phys, 2000 (Peer-Reviewed Journal)
- LXXIX. **Ortaöğretim Kurumlarında Fizik Laboratuvarları Üzerine Bir Çalışma**  
ÇALLICA H., EROL M., SEZGİN SELÇUK G., AYGÜN M., KAVCAR N.  
DEÜ Buca Eğitim Fak. Dergisi, 2000 (Peer-Reviewed Journal)
- LXXX. **Evaluation of Student Satisfaction in Physics Laboratory Courses at University Level**  
SEZGİN SELÇUK G., ELLEZ A. M., EROL M., ÇALLICA H., KAVCAR N.  
Balkan Physics Letters, 2000 (Peer-Reviewed Journal)
- LXXXI. **İlköğretim kurumlarında laboratuvar uygulamalarına ilişkin bir çalışma**  
ÇALLICA H., EROL M., SEZGİN SELÇUK G., KAVCAR N.  
Fen Bilimleri Eğitimi Kongresi, 2000 (Peer-Reviewed Journal)
- LXXXII. **Eğitim fakültelerinde yeniden yapılanmanın öğrenciler açısından değerlendirilmesi**  
EROL M., SEZGİN SELÇUK G., ÇALIŞKAN S., YILMAZ S.  
Dokuz Eylül Üniversitesi Buca Eğitim Fakültesi, 2000 (Peer-Reviewed Journal)
- LXXXIII. **Influence of Carrier Concentration Dependant Mobility on the Performance of the High Electron Mobility Transistors**  
EROL M.  
Balkan Physics Letters, 1997 (Peer-Reviewed Journal)
- LXXXIV. **The Use of Phonons to Study Modulation Doped Field Effect Transistors**  
EROL M.  
Balkan Physics Letters, 1997 (Peer-Reviewed Journal)
- LXXXV. **Üniversitelerimiz Bilimsel Araştırmalar ve Sanayileşme**  
EROL M.  
Çağdaş Eğitim, 1996 (Peer-Reviewed Journal)
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Kavcar N., Sılay İ., Erol M., Çallica H., Sezgin Selçuk G., Kaya Şengören S., Tanel R., Çalışkan S., Tanel Z., Gök T., et al., Project Supported by Higher Education Institutions, Fizik Dersi Müfredat Geliştirme Öğretim Yöntemleri ve Teknikleri Materyal Geliştirme ve Fizikte Ölçme Değerlendirme Üzerine Bir Çalışma, 2002 - 2004

## Metrics

Publication: 218

Citation (WoS): 328

Citation (Scopus): 540

H-Index (WoS): 11

H-Index (Scopus): 14

## Artistic Activity

EROL M., Fizik Eğitiminde Matematiksel modelleme: Basit sarkaç Fizik Eğitiminde akıllı telefonlara kullanılması: İvmenin'xxin ölçülmesi ve kinetik sürtünme katsayısının hesaplanması, December 2017