

Prof. ERDOĞAN TARCAN

Personal Information

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Education Information

Doctorate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1993 - 1997

Post Graduate, Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1990 - 1993

Certificates, Courses and Trainings

Vocational Training, doktora sonrası araştırma, kocaeli Üniversitesi, 1998

Research Areas

Physics, Atomic and Molecular Physics, Natural Sciences

Academic Titles / Tasks

Professor, Kocaeli University, Fizik Bölümü, 2016 - Continues

Associate Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2016

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1998 - 2011

Lecturer, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1994 - 1998

Research Assistant, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1992 - 1994

Research Assistant, Yıldız Teknik Üniversitesi, Kocaeli Mühendislik Fakültesi, Jeofizik Mühendisliği Pr., 1989 - 1992

Professional Experience

Head of Department, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2019 - Continues

Head of Department, Kocaeli University, Fizik Bölümü, 2016 - 2019

Director of Vocational School, Kocaeli University, Köseköy Meslek Yüksekokulu, 2012 - 2018

Deputy Head of Department, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1998 - 2011

Courses

FİZİK 2, Under Graduate, 2016 - 2017

FİZİK 1, Under Graduate, 2016 - 2017

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

- **Crystal structure, spectroscopic (FT-IR, H-1 and C-13 NMR) characterization and density functional theory calculations on Ethyl 2-(dichloromethyl)-4-methyl-1-phenyl-6-thioxo-1,6-dihydropyrimidine-5-carboxylate**

Pekparlak A., Tamer O., Kanmazalp S. D. , BERBER N., Arslan M., Avci D., Dege N., TARCAN E., Atalay Y.
JOURNAL OF MOLECULAR STRUCTURE, vol.1171, pp.762-770, 2018 (Journal Indexed in SCI)

- **A Theoretical Study on Structural, Spectroscopic, Electronic and Nonlinear Optical Properties of 1-[(E)-**

[[4-(Morpholin-4-Yl)Phenyl]Imino]Methyl]Naphthalen-2-Ol

Gumus H., Tamer O., Avci D., Atalay Y., TARCAN E.

BRAZILIAN JOURNAL OF PHYSICS, vol.46, pp.471-480, 2016 (Journal Indexed in SCI)

- **Optimized geometry, vibration (IR and Raman) spectra and nonlinear optical activity of p-nitroanilinium perchlorate molecule: A theoretical study**
Tamer O., Atalay A. S. , Avci D., Atalay Y., TARCAN E., Marchewka M. K.
MATERIALS SCIENCE-POLAND, vol.34, pp.192-203, 2016 (Journal Indexed in SCI)
- **Structural and Dielectric Properties of Polythiophene/Chrom(III) Acetylacetonate Composites**
Tarcan E.
JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.54, pp.897-906, 2015 (Journal Indexed in SCI)
- **Theoretical Investigations on Nonlinear Optical and Spectroscopic Properties of 6-(3,3,4,4-Pentafluoro-2-hydroxy-1-butenyl)-2,4-pyrimidinedione: An Efficient NLO Material**
Gumus H., Tamer O., Avci D., TARCAN E., Atalay Y.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.88, pp.2348-2358, 2014 (Journal Indexed in SCI)
- **Theoretical Investigation of 6-(3,3,4,4,4-Pentafluoro-2-Hydroxy-1-Butenyl)-2,4-Dimethoxy-Pyrimidine Molecule**
Pir H., Gunay N., Avci D., Tamer O., TARCAN E., Atalay Y.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.39, pp.5799-5814, 2014 (Journal Indexed in SCI)
- **Quantum chemical computational studies on bis-thiourea zinc acetate**
Pir H., Gunay N., Tamer O., Avci D., TARCAN E., Atalay Y.
MATERIALS SCIENCE-POLAND, vol.31, pp.357-371, 2013 (Journal Indexed in SCI)
- **Molecular structure and vibrational and chemical shift assignments of 3,5-bis-(4-methylbenzoyl)-2,6-bis(4-methylphenyl)-4H-pyran-4-one: A combined experimental and theoretical analysis**
Avci D., Coemert H., TARCAN E., Dincer M., Atalay Y.
JOURNAL OF MOLECULAR STRUCTURE, vol.975, pp.234-241, 2010 (Journal Indexed in SCI)
- **Molecular Structure, Vibrational Spectra and Chemical Shift Properties of C₁₂H₉ClO₄ and C₂H₉BrO₄ Crystals by Density Functional Theory and ab initio Hartree-Fock Calculations**
Gunay N., TARCAN E., Avci D., Esmer K., Atalay Y.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.64, pp.745-752, 2009 (Journal Indexed in SCI)
- **Calculated on H-1 and C-13 NMR Chemical Shifts of 2,4-Difluorobenzaldehyde Isonicotinoylhydrazone and 2,3-Dichlorobenzaldehyde Isonicotinoylhydrazone with GIAO, IGAIM, and CSGT Models**
Guenay N., TARCAN E., Avci D., Coemert H., ESMER K., Atalay Y.
CONCEPTS IN MAGNETIC RESONANCE PART A, pp.297-304, 2009 (Journal Indexed in SCI)
- **Synthesis, characterization, aggregation and thermal properties of a novel polymeric metal-free phthalocyanine and its metal complexes**
BİLGIN A., YAĞCI Ç., YILDIZ U., ÖZKAZANÇ E., TARCAN E.
POLYHEDRON, vol.28, pp.2268-2276, 2009 (Journal Indexed in SCI)
- **THEORETICAL STUDIES OF MOLECULAR STRUCTURE AND VIBRATIONAL SPECTRA OF THE ASYMMETRIC SQUARINE [(2-DIMETHYLAMINO-4-ANILINO)SQUARINE]**
TARCAN E., Pekparlak A., AVCI D., ATALAY Y.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.34, pp.55-62, 2009 (Journal Indexed in SCI)
- **Dielectrical Properties of a Novel Porcelain Produced from Natural Clay, Waste Glass and Fly Ash**
Toplan H. O. , Okutan M., ESMER K., Atalay Y., Yuruyen S., TARCAN E.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.28, pp.55-65, 2009 (Journal Indexed in SCI)
- **Molecular structure and vibrational assignment of melaminium phthalate by density functional theory (DFT) and ab initio Hartree-Fock (HF) calculations**
TARCAN E., Altindag O., Avci D., Atalay Y.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.71, pp.169-174, 2008 (Journal Indexed in SCI)
- **The effect of uniaxial orientation on the dielectric relaxation behavior of alpha-PVDF**
ÖZKAZANÇ E., GÜNEY H. Y. , OSKAY T., TARCAN E.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.109, pp.3878-3886, 2008 (Journal Indexed in SCI)

- **Structural and Dielectrical Properties of MnO₂-V₂O₅-SnO Mixed Oxides System at 1023 K**
TARCAN E., KADİROĞLU Ü., Atalay Y., ESMER K.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.27, pp.141-149, 2008 (Journal Indexed in SCI)
- **The effect of pH on adsorption of linear alkyl benzene sulphonate by bentonite**
Saglam H. B. , ESMER K., TARCAN E., ZOR S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.16, pp.1643-1647, 2007 (Journal Indexed in SCI)
- **Effects of different amount of As₂O₃ and TiO₂ on the chemical, physical and electrical properties of the base material MnO₂**
ESMER K., Kadiroglu U., TARCAN E., KAYAN A.
MATERIALS LETTERS, vol.59, pp.1125-1129, 2005 (Journal Indexed in SCI)
- **Electrical and dielectrical properties of the MnO₂ doped with As₂O₃ and SnO**
KAYAN A., TARCAN E., Kadiroglu U., ESMER K.
MATERIALS LETTERS, vol.58, pp.2170-2174, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

- **A THEORETICAL STUDY ON 5 4 CHLOROPHENYL 1H TETRAZOLE**
GÜMÜŞ H., GÜNAYN., ESMER K., TARCAN E., ATALAY Y.
BALKAN PHYSICS LETTERS, vol.19, pp.341-349, 2011 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **Theoretical Investigation of Bis Thiourea Zinc Acetate Btza IR and Raman Spectra Conformational Nbo and Nlo Analysis**
GÜMÜŞ H., GÜNAYN., TARCAN E., ATALAY Y.
29. Uluslararası Fizik Kongresi, 5 - 08 Eylül 2012, pp.81
- **A Theoretical Study on 6 3 3 4 4 4 Pentafluoro 2 Hidroksi 1 Butenyl 2 4 Pyrimidinedione**
GÜMÜŞ H., GÜNAYN., TARCAN E., ATALAY Y.
29. Uluslararası Fizik Kongresi, 5 - 08 Eylül 2012, pp.431
- **A Theoretical Study on Quinoline 2 Carboxylic Acid Quinolinium 2 Carboxylate**
GÜMÜŞ H., GÜNAYN., TARCAN E., ATALAY Y.
9. Uluslararası Kimyasal Fizik Kongresi, 14 - 16 Ekim 2010, pp.107
- **A Theoretical Study on 5 4 Chlorophenyl 1H Tetrazole**
GÜMÜŞ H., GÜNAYN., ESMER K., TARCAN E., ATALAY Y.
27. Uluslararası Fizik Kongresi, 14 - 17 Eylül 2010, pp.486
- **Investigation Of Electrical Properties Of Titanium Coated Copper Surfaces Using ARC-PVD**
TARCAN E., CANEL T.
TFD 23 International Physics Congress, Muğla, Turkey, 7 - 10 Eylül 2005
- **Kimyasal Metotla Elde Edilmiş CuO Seçici Yüzeyin Termo-Optik Özelliklerinin İncelenmesi**
Bektöre Y., TARCAN E., CANEL T.
TFD 17 Türk Fizik Derneği 17. Fizik Kongresi, Antalya, Turkey, 27 - 31 Ekim 1998, pp.467
- **MOS Yapılarda Gama Radyasyonunun Etkileri**
CANEL T., Bektöre Y., TARCAN E., VAROL H. S.
TFD-16 Türk Fizik Derneği 16. Fizik Kongresi, 19 - 23 Ağustos 1996, pp.9

Supported Projects

TARCAN E., Project Supported by Higher Education Institutions, İNSANLARDA GÖRÜLEN NÖRODEJENERATİF HASTALIKLARIN DÜŞÜK SEVİYELİ IŞIK TEDAVİSİNDE IŞIK DOZİMETRİ MODELLEME VE SİMÜLASYON ÇALIŞMALARI, 2017 - 2018

TARCAN E., Project Supported by Higher Education Institutions, POLİMER ESASLI MİKRO-NANO ÖLÇEKLİ KOMPOZİT MALZEMELERİN SICAKLIK VE FREKANS BAĞLI ELEKTRİKSEL ÖZELLİKLERİNİN İNCELENMESİ, 2015 - 2016

TARCAN E., Project Supported by Higher Education Institutions, Dielektrik-Manyetik ve Polimer Kompozit Malzemelerin Elektro-Manyetik Özelliklerinin İncelenmesi, 2010 - 2012

Citations

Total Citations (WOS):113

h-index (WOS):6