

Asst. Prof. ARZU KURT

Personal Information

Office Phone: [+90 286 218 0018](tel:+902862180018) Extension: 16016

Email: arzukurt@comu.edu.tr

Web: <https://avesis.comu.edu.tr/arzukurt>

International Researcher IDs

ORCID: 0000-0003-3196-100X

Yoksis Researcher ID: 307747

Education Information

Doctorate, Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Fizik, Turkey 2009 - 2016

Postgraduate, Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Fizik, Turkey 1999 - 2002

Undergraduate, Canakkale Onsekiz Mart University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1994 - 1998

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Hidrodinamik şok dalgalarında viskozite etkisinin araştırılması ve sonuçların koronal kütle atımlarından sonra oluşan şok dalgalarına uygulanması, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Fizik, 2016

Postgraduate, Dünya'nın manyetosferindeki elektrostatik çift tabakalar, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Fizik, 2002

Research Areas

Physics, Astronomy and Astrophysics, Sun and Solar Systems, Interdisciplinary Physics and Related Science and Technology Areas, Gases, Plasmas and Electrical Discharges Physics, Physics of Plasmas, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Çanakkale Uygulamalı Bilimler Fakültesi, Enerji Yönetimi, 2019 - Continues

Research Assistant, Canakkale Onsekiz Mart University, Fen Fakültesi, Fizik, 2000 - 2004

Academic and Administrative Experience

Deputy Head of Department, Canakkale Onsekiz Mart University, Çanakkale Uygulamalı Bilimler Fakültesi, Enerji Yönetimi, 2022 - Continues

Courses

Nükleer Enerji ve İşlemler Yönetimi, Undergraduate, 2022 - 2023
Enerji Üretim Teknolojileri, Undergraduate, 2022 - 2023, 2021 - 2022
Nükleer Enerji ve Sosyal Kabul, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Uzmanlık Alan, Postgraduate, 2022 - 2023, 2021 - 2022
Enerjiye Giriş II, Undergraduate, 2021 - 2022, 2020 - 2021
Termodinamiğin Temelleri, Undergraduate, 2022 - 2023, 2021 - 2022
Enerji Yönetimi, Postgraduate, 2021 - 2022
Yenilenebilir Enerji Kaynakları ve Teknolojileri, Postgraduate, 2022 - 2023
Enerji Verimliliği ve Sürdürülebilirlik, Postgraduate, 2022 - 2023
Nükleer enerji ve Teknolojileri, Postgraduate, 2022 - 2023, 2021 - 2022
Enerjiye Giriş I , Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Seminer, Postgraduate, 2021 - 2022, 2020 - 2021
İstatiksel Yöntemler, Undergraduate, 2021 - 2022
Güneş Enerjisi Temelleri, Postgraduate, 2021 - 2022, 2020 - 2021
İstatiksel Yöntemler, Undergraduate, 2019 - 2020
Fizik, Undergraduate, 2020 - 2021
Matematik, Undergraduate, 2020 - 2021
İşletme Matematiği, Undergraduate, 2020 - 2021, 2019 - 2020

Advising Theses

Kurt A., MIRROR DESIGN AND CALCULATION OF THERMAL EFFICIENCY FOR PARABOLIC SOLAR COLLECTORS,
Postgraduate, P.Orucov(Student), Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Calculation Of The Damping Constant (FWHM), The Relaxation Time, And The Activation Energy As A Function Of Temperature For DmaCd(N3)3**
Kurt A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1244, pp.1-8, 2021 (SCI-Expanded)
- II. **Pressure dependence of the Raman modes for orthorhombic and monoclinic phases of CsPbI3 at room temperature**
KURT A.
JOURNAL OF APPLIED PHYSICS, vol.128, no.7, 2020 (SCI-Expanded)
- III. **Calculation of the infrared frequency and the damping constant (full width at half maximum) for metal organic frameworks**
Kurt M., Yurtseven H., Kurt A., Aksoy S.
CHINESE PHYSICS B, vol.28, no.6, 2019 (SCI-Expanded)
- IV. **Calculation of the Raman and IR frequencies as order parameters and the damping constant (FWHM) close to phase transitions in methylhydrazinium structures**
KURT M., YURTSEVEN H. H., KURT A.
Journal of Molecular Structure, vol.1181, pp.488-492, 2019 (SCI-Expanded)
- V. **Effects of viscosity on the behavior of entropy change in the shock wave that occurred after the December 13, 2006 coronal mass ejection**

Articles Published in Other Journals

- I. **CALCULATION OF GRUNEISEN PARAMETER, COMPRESSIBILITY, AND BULK MODULUS AS FUNCTIONS OF PRESSURE IN $(C_6H_5CH_2NH_3)_2PbI_4$**
KURT A.
Journal of advanced research in natural and applied sciences (Online), vol.8, no.1, pp.63-75, 2022 (Peer-Reviewed Journal)
- II. **Mn Katkılı PIN-PMN-PT Tekil Kristalinin Dielektrik Katsayısı, Relaksasyon Zamanı ve Aktivasyon Enerjisinin Hesaplanması**
KURT A., AKSOY S.
Afyon Kocatepe University Journal of Sciences and Engineering, vol.21, pp.56-64, 2021 (Peer-Reviewed Journal)
- III. **Evaluation of Cross-Section and Wing Length in Free Vibration Analysis of Aircraft Wings**
Evran S., Kurt M., Kurt A.
Journal of Aviation, vol.4, no.2, pp.17-24, 2020 (Peer-Reviewed Journal)
- IV. **Calculation of the ν_4 (NH_4) IR Mode Frequency and the Damping Constant (FWHM) close to the Phase Transitions in $NH_4ZN(HCOO)_3$ and $ND_4ZN(DCOO)_3$**
KURT A., YURTSEVEN H. H., KURT M.
International Journal of Chemistry and Research, vol.1, no.2, pp.46-50, 2019 (Peer-Reviewed Journal)
- V. **Calculation of the Frequency and Line width of the IR Modes as a Function of Temperature in DMg and $DMCd$**
KURT A., YURTSEVEN H. H., KURT M.
International Journal of Chemistry and Research, vol.1, no.1, pp.19-23, 2019 (Peer-Reviewed Journal)
- VI. **Determination of absorption coefficient of *Chlorella vulgaris* and *Arthrospira maxima* in water**
TEKİNER M., KURT M., AK İ., KURT A.
American Institute of Physics Conference Proceedings, vol.1935, no.1, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **CALCULATION OF ENERGY CONVERSION EFFICIENCY IN PARABOLIC TROUGH SOLAR COLLECTORS**
KURT A., AVCI S., KURT M.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- II. **INVESTIGATION OF TEMPERATURE DEPENDENCY OF THE DAMPING CONSTANT (FWHM) BY MEAN FIELD THEORY IN $MAPbBr_3$ AND $FAPbBr_3$**
KURT A.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- III. **CALCULATION OF DIELECTRIC SENSITIVITY AND RELAXATION TIME IN ETHYLAMMONIUM-SODIUM-CHROME-FORMATE BY USING LANDAU MEAN FIELD MODEL**
AKSOY S., KURT A., KURT M., AVCI S.
TURKISH PHYSICAL SOCIETY 38TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022
- IV. **Investigation of Radiation-heat conversion efficiency for Absorbers Made by Different Materials in Parabolic Solar Collectors**
AVCI S., KURT A., KURT M.
Turkish Physical Society 38th International Physics Congress (TPS38), Muğla, Turkey, 31 August - 04 September

2022

- V. **FORMAMIDINIUM MAGNESIUM HYPOPHOSPHITE PEROVSKITE MALZEMENİN SICAKLIĞA BAĞLI FAZ GEÇİŞİNİN LANDAU ORTALAM ALAN TEORİSİ İLE MODELLENMESİ**
AKSOY S., KURT A., KURT M.
INTERNATIONAL SYMPOSIUM ON ENGINEERING, NATURAL AND SOCIAL SCIENCES - ISENS-21, Batman, Turkey, 25 - 28 November 2021
- VI. **Calculation of Raman Mode Frequency and the Damping Constant (Fwhm) as a Function of Temperature in $[\text{NH}_2\text{CHNH}_2+]\text{CD}(\text{H}_2\text{POO})_3$**
KURT A.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021
- VII. **Grüneisen Parameter, Isothermal Compressibility and Bulk Modulus as a function of pressure in $[(\text{C}_7\text{H}_{10}\text{N})_2\text{PbCl}_4]$**
Khalilov Z., KURT A.
8th International conference on materials science and nanotechnology for next generation (MSNG2021), Elazığ, Turkey, 14 - 16 July 2021
- VIII. **Creating airy beams as directed and concentrated energy**
KAYA G., AVCI S., KAYA N., KURT A., KURT M.
INTERNATIONAL GLOBAL CLIMATE CHANGE CONGRESS, Çanakkale, Turkey, 3 - 05 June 2021
- IX. **Creating Airy beams as directed and concentrated energy**
KAYA G., AVCI S., KAYA N., KURT A., KURT M.
INTERNATIONAL GLOBAL CLIMATE CHANGE CONGRESS, Çanakkale, Turkey, 03 June 2021
- X. **Calculation of Gruneisen Parameter as a Function Of Pressure In $[(\text{CH}_3)_2\text{NH}_2][\text{M}(\text{HCOO})_3]$**
KURT A.
4th International Conference on Physical Chemistry & Functional Materials, Elazığ, Turkey, 8 - 09 April 2021
- XI. **PHASE TRANSITION MODELS OF FERROELECTRIC MOFs MATERIALS**
KURT M., KURT A.
INTERNATIONAL CONGRESS of SCIENCE CULTURE and EDUCATION (INCES 2019), Alanya, Turkey, 29 October - 02 November 2019, vol.1
- XII. **Ferroelektrik MOFs Malzemelerin Faz Geçiş Modelleri**
KURT M., KURT A.
International Congress of Science Culture and Education, Alanya, Turkey, 29 October - 02 November 2019
- XIII. **Laser induced molecular alignment of CO₂ measured with ATI yields**
KURT M., KAYA G., KURT A., KAYA N.
TFD35:Turkish Physical Society 35.International Physics Congress, Bodrum, Turkey, 4 - 08 September 2019
- XIV. **KARAKILÇIK BUĞDAY ÇEŞİDİNDE FARKLI GAMA RADYASYON DOZLARININ M1 BİTKİLERİ GELİŞİMİ VE GAZ SALINIMLARI ÜZERİNE ETKİSİ**
AĞAÇ H., YALÇIN F. S., KURT A., KURT M.
INTERNATIONAL ACADEMIC RESEARCH CONGRESS (INES 2018), 30 October - 03 November 2018
- XV. **Calculation of the T-E Phase Diagram of Ferroelectric C7 and a Mixture Of C710.0.4 By the Mean Field Model**
Kurt A.
IV INTERNATIONAL ACADEMIC RESEARCH CONGRESS, Antalya, Turkey, 30 October - 03 November 2018
- XVI. **Calculation of the N4 (NH₄) IR Mode Frequency and the Damping Constant (FWHM) Close to the Phase Transitions in $\text{Nh}_4\text{Zn}(\text{HCOO})_3$ and $\text{Nd}_4\text{Zn}(\text{DCOO})_3$**
Kurt A.
Turkish Physical Society 34rd International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.1-2
- XVII. **Calculation of the N4 (NH₄) IR Mode Frequency and the Damping Constant (FWHM) Close to the Phase Transitions in $\text{NH}_4\text{Zn}(\text{HCOO})_3$ and $\text{Nd}_4\text{Zn}(\text{DCOO})_3$**
KURT A., YURTSEVEN H. H., KURT M.
Turkish Physical Society 34th International Physics Congress, 5 - 09 September 2018
- XVIII. **Linewidth of the IR Modes as a Function of Temperature in DMMG and DMCD**

KURT A., YURTSEVEN H. H., KURT M.

Turkish Physical Society 34th International Physics Congress, 5 - 09 September 2018

- XIX. **Temperature Dependence of the IR Frequencies and FWHM of the P (NH₂) Mode for DMFeCu, DMFeNi and DMFeZn Crystals**

KURT M., YURTSEVEN H. H., Aksoy S., KURT A.

4th International Conference on Engineering and Natural Sciences (ICENS 2018), 2 - 06 May 2018

- XX. **Determination of Absorption Coefficient of Chlorella Vulgaris and Arthrospira Maxima in Water**
TEKİNER M., KURT M., AK İ., Kurt A.

33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935

- XXI. **FİZİK EĞİTİMİNDE ÖZEL YETENEKLİ ÖĞRENCİLER İÇİN MODERN FİZİK KAVRAMLARININ UYGULAMA YAKLAŞIMLARI**

KURT A.

INTERNATIONAL ACADEMIC RESEARCH CONGRESS, Alanya, Turkey, 18 - 21 October 2017

- XXII. **MESLEK VE TEKNİK EĞİTİM MERKEZLERİNDE FİZİK EĞİTİMİ İÇİN STEM YAKLAŞIMLARI**

KURT A.

INTERNATIONAL ACADEMIC RESEARCH CONGRESS, Alanya, Turkey, 18 - 21 October 2017

- XXIII. **13/12/2006 Koronal Kütle Atımı (CME) Sonrası Meydana Gelen Şok Dalgası İçin Viskozite Etkisi Üzerine Araştırmalar**

KURT A., ÇAVUŞ H.

Adım Fizik Günleri 6, Balıkesir, Turkey, 19 - 21 July 2017

Supported Projects

Kaya N., KAYA G., KURT A., TUBITAK Project, Metan Ölçümleri İçin Yeni Ultra-Hassas Optik Sensör Geliştirilmesi, 2022 - 2024

KURT A., KURT M., AVCI S., Project Supported by Higher Education Institutions, Parabolik Güneş Kolektörlerinde Farklı Malzemeden Yapılan Soğurucuların Performans Analizi, 2021 - 2023

KURT A., KURT M., Avcı S., AKSOY S., Project Supported by Higher Education Institutions, Ferroelektrik Metal Organik Çerçeve MOF Malzemelerin Faz Geçişlerinin Modellenmesi ve Karakterizasyonu, 2021 - 2023

KAYA G., KAYA N., KURT M., KURT A., Project Supported by Higher Education Institutions, Faz temelli uzamsal ışık modülatörü kullanarak holografik Airy ışınlarının üretilmesi, 2021 - 2023

EVREN S., KURT A., Project Supported by Higher Education Institutions, Şerit Piezoelektrik Kristallerin Enerji Hasadında Performans Analizi, 2021 - 2022

Kurt A., TUBITAK Project, Işıma Esaslı Makas Isıtıcı Sistemi, 2020 - 2022

Kurt A., Project Supported by Higher Education Institutions, Karakılçık Buğday Triticum durum L Çeşidinde Farklı Gama ve UVC Işını Dozlarının M1 Bitkilerinde Fide Gelişimi Üzerine Etkisi ve Uygun Dozun Belirlenmesi, 2018 - 2019

Metrics

Publication: 36

Citation (WoS): 6

Citation (Scopus): 10

H-Index (WoS): 2

H-Index (Scopus): 2

Non Academic Experience

