

## Asst. Prof. Melek FİDAN



### Personal Information

Office Phone: [+90 231 407 6](tel:+902314076)

Email: [mbahadir@atauni.edu.tr](mailto:mbahadir@atauni.edu.tr)

Web: <https://avesis.atauni.edu.tr/mbahadir>

Address: 25240



### International Researcher IDs

ScholarID: mD8ymN4AAAAJ

ORCID: 0000-0002-8138-1743

Yoksis Researcher ID: 121870

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Atom Ve Molekül Fiziği Anabilim Dalı, Turkey 2005 - 2011

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Atom Ve Molekül Fiziği Anabilim Dalı, Turkey 2003 - 2005

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, N-BAZ KARIŞIK LİGANTLI YAPILARIN SENTEZİ ve YAPILARININ, SPEKTROSKOPİK ÖZELLİKLERİNİN EPR TEKNİĞİ ile BELİRLENMESİ, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik/ Atom Ve Molekül Fiziği, 2011

Postgraduate, BAZI CAMSI YAPILARIN EPR TEKNİĞİ İLE İNCELENMESİ, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik/ Atom Ve Molekül Fiziği, 2003

### Research Areas

Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Ataturk University, Fen Fakültesi, Fizik, 2018 - Continues

Research Assistant PhD, Ataturk University, Fen Fakültesi, Fizik, 2011 - 2018

Research Assistant, Ataturk University, Fen Fakültesi, Fizik, 2003 - 2011

### Courses

Fizik II, Undergraduate, 2023 - 2024  
Fizik I-Mekanik Laboratuvarı, Undergraduate, 2023 - 2024  
Fizik II, Undergraduate, 2022 - 2023  
Electron Paramagnetic Resonance, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Öğretmenlik Uygulaması, Undergraduate, 2023 - 2024  
Spectroscopy, Undergraduate, 2023 - 2024, 2020 - 2021  
High Energy and Plasma Physics, Undergraduate, 2023 - 2024, 2021 - 2022  
Physics I, Undergraduate, 2021 - 2022  
Physics I, Undergraduate, 2021 - 2022  
Nükleer Fizik Laboratuvarı, Undergraduate, 2020 - 2021  
Fizik II, Undergraduate, 2017 - 2018  
Fizik I, Undergraduate, 2018 - 2019  
Fizik I, Undergraduate, 2018 - 2019  
Çekirdek Fiziği, Undergraduate, 2015 - 2016

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

- I. **Investigation of the structural, mechanical, radiation and neutron shielding properties of the TeO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>-Li<sub>2</sub>O-MoO<sub>3</sub>-CuO glass system**  
Fidan M., Acikgoz A., Yilmaz D., Demircan G., Kalecik S., Aktaş B., İşgör S.  
Journal of Alloys and Compounds, vol.976, 2024 (SCI-Expanded)
- II. **Optical, structural, physical, and nuclear shielding properties, and albedo parameters of TeO<sub>2</sub>-BaO-B<sub>2</sub>O<sub>3</sub>-PbO-V<sub>2</sub>O<sub>5</sub> glasses**  
FİDAN M., AÇIKGÖZ A., DEMİRCAN G., YILMAZ D., AKTAŞ B.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.163, 2022 (SCI-Expanded)
- III. **EPR Study of UV and gamma irradiated potassium persulfate: A Sensitive dosimeter**  
Fidan M., Bıyık R., Çemberci M., Tapramaz R.  
Radiation Measurements, vol.146, pp.1-5, 2021 (SCI-Expanded)
- IV. **Synthesis, structural, spectral and antimicrobial activity studies of copper-nalidixic acid complex with 1,10-phenanthroline: DFT and molecular docking**  
AYCAN T., Ozturk F., Doruk T., DEMİR S., FİDAN M., Padaoglu H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.241, 2020 (SCI-Expanded)
- V. **A novel polyphenol-based ferromagnetic polymer: synthesis, characterization and Schottky diode applications**  
Yesilbayrak F. G., Demir H. O., Cakmaktepe S., Meral K., AYDOĞAN Ş., Arslan A., FİDAN M., Aslantas M.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.119, no.4, pp.1301-1309, 2015 (SCI-Expanded)
- VI. **Synthesis, crystal structure, spectroscopic, fluorescent, thermal properties and EPR spectra of doped Cu<sup>2+</sup> ions in [Cd(sac)(2)(H<sub>2</sub>O)(2)(meim)(2)] single crystal**  
FİDAN M., Semerci F., Sahin E., Yesilel O. Z., Tapramaz R., ŞAHİN Y.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.110, pp.437-442, 2013 (SCI-Expanded)
- VII. **Measurement of soil water using Compton scattering**  
Şahin Y., Ün A., Demir D., ÖZGÜL M., FİDAN M.  
X-Ray Spectrometry, vol.40, no.4, pp.315-318, 2011 (SCI-Expanded)
- VIII. **Thermal and EPR spectroscopic studies of novel coordination compound trans-bis(acesulfamato)tetraaquazinc(II) with Mn(II) impurity**  
FİDAN M., Icbudak H., Tapramaz R., ŞAHİN Y.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.79, no.1, pp.17-20, 2011 (SCI-Expanded)

- IX. **EPR and optical absorption studies of Cu<sup>2+</sup> and VO<sub>2</sub><sup>+</sup> impurities in diammonium d-tartrate single crystal grown in ammonium dihydrogen phosphate buffer**  
FİDAN M., Tapramaz R., ŞAHİN Y.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.71, no.5, pp.818-823, 2010 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **EPR Study of Zinc Acesulfamate with Ethylene Complex**  
Fidan M.  
1ST INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN FUNDAMENTAL AND APPLIED SCIENCES (ISFAS-2021), Erzurum, Turkey, 10 - 12 September 2021, pp.81
- II. **Study of Synthesis, Structural, Spectral of Copper-Nalidixic Acid Complex with 1,10-Phenantroline: Computational and Molecular Docking**  
AYCAN T., ÖZTÜRK F., FİDAN M., DEMİR S., PAŞAOĞLU H.  
Turkish Physical Society- 35th International Physics Congress (TPS-35), Muğla, Turkey, 4 - 08 September 2019
- III. **Cu<sup>2+</sup> KATKILANDIRILMIŞ [Ni(sac)<sub>2</sub>(enc)<sub>2</sub>].(H<sub>2</sub>O)<sub>2</sub> KRİSTALİNİN EPR SPEKTROSKOPİSİ İLE İNCELENMESİ**  
Fidan M.  
MAS International Conference on Mathematics-Engineering-Natural&Medical Science, Erzurum, Turkey, 2 - 05 May 2019, pp.56
- IV. **ZnO Yarıiletkeninde Fe, Mg ve Cu Katkılarının Optik ve Yapısal Özelliklerine Etkisinin İncelenmesi**  
Fidan M.  
20. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 26 December 2014, pp.84
- V. **BAZI SAKKARİN ve ACESÜLFAM KRİSTALLERİNİN EPR SPEKTRUMLARINDA SICAKLIK ETKİSİNİN İNCELENMESİ**  
Fidan M.  
TFD 30. Uluslararası Fizik Kongresi, İstanbul, Turkey, 2 - 05 September 2013, pp.274
- VI. **Amonyum dihidrojen fosfat tampon çözeltisinde büyütülmüş diamonyum d-tartarat tek kristallerine katkılanırılmış Cu<sup>2+</sup> iyonunu optik soğurma ve EPR Çalışmaları**  
Fidan M.  
12. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.235
- VII. **KIZILIRMAK YATAĞINDAN ÇIKARILAN DOĞAL SİLİS MİNERALİNİN EPR SPEKTROSKOPİSİ İLE İNCELENMESİ**  
Fidan M.  
TFD 25. Uluslararası Fizik Kongresi, Muğla, Turkey, 25 - 29 August 2008, pp.354
- VIII. **EPR investigation of VO<sub>2</sub><sup>+</sup> and Cu<sup>2+</sup> ions doped R<sub>2</sub>O+P<sub>2</sub>O<sub>5</sub>+ZnO+CaO glassy systems (R = Na and K)**  
Fidan M.  
TFD 27. Uluslararası Fizik Kongresi, Malatya, Turkey, 4 - 07 September 2007, pp.110-111
- IX. **Measurement of K-Shell Transition Rates for Elements in The Atomic Range 26 ≤ Z ≤ 67 at 59.54 keV Photon Energy**  
Fidan M.  
TFD 23. Uluslararası Fizik Kongresi, Muğla, Turkey, 13 - 16 September 2005, pp.136-140

### Supported Projects

FİDAN M., HABASHYANI S., MOBTAKERI S., GÜR E., Project Supported by Higher Education Institutions, Yüksek Performanslı ElektroKromik Aygıt Üretim Yönteminde Yenilik, 2022 - 2024

FİDAN M., YILMAZ D., Project Supported by Higher Education Institutions, Nano Metal Oksit Katkılı Baryum Camların

Üretilmesi Radyasyon Zırhlama Parametrelerinin Belirlenmesi EPR ve UV Spektrometreleri ile Yapı Analizlerinin Yapılması, 2021 - 2023

GÜROL A., KURUCU Y., YILMAZ D., ŞAKAR E., GÜRBULAK B., FİDAN M., Project Supported by Higher Education Institutions, Fizik Bölümünün Ar-Ge ve İnnovasyon Potansiyelinin Geliştirilmesi, 2018 - 2019

## **Activities in Scientific Journals**

Journal of Anatolian Physics and Astronomy, Evaluation Committee Member, 2021 - Continues

## **Metrics**

Publication: 21

Citation (WoS): 105

Citation (Scopus): 152

H-Index (WoS): 6

H-Index (Scopus): 6