

## Lect. Seda KIN BARKA

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-5789-1738

Yoksis Researcher ID: 237557

### Education Information

Doctorate, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Turkey 2006 - Continues

Postgraduate, Miami University, Faculty of Science and Letters, Physics, United States Of America 2003 - 2005

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1998 - 2002

### Foreign Languages

German, C1 Advanced

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Collisional depolarization of the atomic Cs atomic cesium  $6s2S1/2-10s2S3/2,9d2D5/2$  transition with argon buffer gas, Miami University, Faculty of Science and Letters, Physics Department, 2005

### Research Areas

Physics, Atomic and Molecular Physics, Atomic Spectra and Photon Interactions

### Academic Titles / Tasks

Lecturer, Acibadem Mehmet Ali Aydınlar University, Vocational School Of Health Services, Opticianry, 2015 - Continues

### Academic and Administrative Experience

Dış Paydaş İlişkileri Komisyonu, Acibadem Mehmet Ali Aydınlar University, Vocational School Of Health Services, Opticianry, 2019 - Continues

Bölüm Stratejik Plan Komisyonu Üyesi, Acibadem Mehmet Ali Aydınlar University, Vocational School Of Health Services, Opticianry, 2019 - Continues

## Courses

Physics and Geometrik Optics I, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Physics and Geometric Optics II, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Foot Biomechanics I, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Foot Biomechanics I, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Physics, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Physics, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

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

- I. **Line identification of atomic and ionic spectra of Holmium in the near infrared spectral range from 700 nm to 1750 nm**  
Zengin M., Barka S., ÖZTÜRK İ., Klincare I., Kröger S., BAŞAR G.  
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.217, 2024 (SCI-Expanded)
- II. **New energy levels of atomic holmium discovered by laser spectroscopy in the near infrared spectral range**  
Barka S. K., Başar G., Kröger S., BAŞAR G.  
Spectrochimica Acta - Part B Atomic Spectroscopy, vol.216, 2024 (SCI-Expanded)
- III. **Studies on kyotorphin and D-kyotorphin in aqueous solution by Raman spectroscopy**  
Akyuz S., BAŞAR G., Başar G., Kin S., Kroeger S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.924, pp.42-46, 2009 (SCI-Expanded)
- IV. **Monitoring of spectroscopic changes of a single trapped fission yeast cell by using a Raman tweezers set-up**  
Başar G., Kin S.  
Optics Communications, vol.281, no.19, pp.4998-5003, 2008 (SCI-Expanded)
- V. **Raman scattering spectroscopy of liquid nitrogen molecules: An advanced undergraduate physics laboratory experiment**  
Sands B., Welsh M., Kin S., Marhatta R., Hinkle J., Bayram S.  
American Journal of Physics, vol.75, no.6, pp.488-495, 2007 (SCI-Expanded)
- VI. **Collisional depolarization of Zeeman coherences in the Cs133 6p P 3/2 level: Double-resonance two-photon polarization spectroscopy**  
Bayram S., Kin S., Welsh M., Hinkle J.  
Physical Review A - Atomic, Molecular, and Optical Physics, vol.73, no.4, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Verification of the Existence of Recently Published New Energy Levels of Atomic Holmium**  
Bingöl D., Başar G., Başar G., Kanat Öztürk İ., Güzelçimen F., Kın Barka S., Kröger S.  
Physics and Astronomy Reports, vol.1, no.2, pp.85-92, 2023 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Interaction Of Kyotorphin In Different Concentrations With The Membrane Of Optically Trapped Dmpc Vesicle**  
BAŞAR G., BAŞAR G., KIN BARKA S., PARLATAN U., ŞEYMA Ş.  
XXII INTERNATIONAL CONFERENCE ON RAMAN SPECTROSCOPY, BOSTON, United States Of America, 8 - 10 August 2010, pp.335
- II. **Investigation of Biological Particles Using Optical Tweezers Raman Spectrometer**  
KIN BARKA S., BAŞAR G., PARLATAN U., PARLATAN Ş.  
Nano Workshop Istanbul Technical University, Turkey, 2 - 04 January 2009
- III. **Construction of Optical Tweezer Raman System**  
KIN BARKA S., PARLATAN U.  
ISCOM 2008, 3 - 07 September 2007
- IV. **Construction of a Raman Tweezers system for investigation of biomolecules**  
BAŞAR G., KIN BARKA S., AKYÜZ S.  
International Symposium on Molecular Spectroscopy 62nd Meeting, 18 - 22 June 2007
- V. **Collisional depolarization of the atomic Cs-6s2S1/2→10s2S1/2 transition with argon buffer gas**  
Kin Barka S.  
Meeting of the Division of Atomic, Molecular and Optical Physics, Nebraska, United States Of America, 17 - 21 May 2005

## Supported Projects

Başar G., TUBITAK Project, Membran ve Nöropeptidlerin "Raman Tweezers" Spektrumunun İncelenmesi, 2006 - 2009

## Metrics

Publication: 12

Citation (WoS): 25

Citation (Scopus): 26

H-Index (WoS): 3

H-Index (Scopus): 3

## Congress and Symposium Activities

ICONAT-International Conference on Natural Sciences and Technology, Attendee, Antalya, Turkey, 2024