

## Res. Asst. İLKNUR BALDAN IŞIK

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-6624-5498

Publons / Web Of Science ResearcherID: F-5894-2018

Yoksis Researcher ID: 270725

### Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2017 - Continues

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2014 - 2017

Postgraduate, Cukurova University, Sağlık Bilimleri Enstitüsü, Temel Tıp Bilimleri, Turkey 2014 - 2017

Undergraduate Double Major, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, Turkey 2011 - 2014

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 2010 - 2013

Undergraduate, Kütahya Dumlupınar University, Faculty Of Arts And Sciences, Turkey 2008 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Torasik Aorta Uygulanan Pulsu Manyetik Alanın Apoptotik Etkilerinin Kasılma Parametreleri Üzerinden İncelenmesi, Cukurova University, 2017

Postgraduate, Hadronik ileri kalorimetre (HF)'de kullanılan QIE10 kartlarının Pedestal, CapID, ICI testleri, Cukurova University, 2017

### Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Atomic and Molecular Interactions, Basic Particles and Areas, General Theory of Particles and Fields, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2017 - Continues

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

- I. **Single-crystal X-ray structural characterization, Hirshfeld surface analysis, electronic properties, NBO, and NLO calculations and vibrational analysis of the monomeric and dimeric forms of 5-nitro-2-oxindole**  
GÜNEŞDOĞDU SAĞDINÇ S., Akcay B. K., YILDIZ S. Z., BALDAN IŞIK İ.  
NEW JOURNAL OF CHEMISTRY, vol.45, pp.10070-10088, 2021 (SCI-Expanded)
- II. **Pulsed magnetic field maintains vascular homeostasis against H<sub>2</sub>O<sub>2</sub>-induced oxidative stress.**  
Gunay I., Baldan İ., Tokus M., Coskun C., Ocal I., Cicek F. A.  
General physiology and biophysics, vol.39, pp.579-586, 2020 (SCI-Expanded)
- III. **Thermal behaviors of exotic Z(c) (3900) state in tetraquark approach**  
Isik I. B., Sundu H., Veliev E.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.135, 2020 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis Of Coal By Laser Induced Plasma Spectroscopy Technique**  
Baldan Işık İ., Işık H. H., Demir A.  
Turkish Physical Society 35th International Physics Congress Bodrum/TURKEY, Muğla, Turkey, 3 - 08 September 2019, vol.35, pp.240
- II. **H<sub>2</sub>O<sub>2</sub> differently effects to the contractions of thoracic aorta in vivo magnetic field exposure**  
GÜNAY İ., BALDAN İ., ÇİÇEK F., ÖCAL I., COŞKUN Ç.  
30th ANNUALBIOPHYSICS CONGRESS(INTERNATIONAL), 10 - 13 October 2018
- III. **Effects of Pulsed Magnetic Fields to Vascular Responses**  
Çiçek F., Günay İ., Baldan Işık İ., Öcal I.  
International Congress on Biological and Medical Sciences 2018, Niğde, Turkey, 31 October - 03 November 2018, pp.84
- IV. **PMF Regulate Fibrocartilage Activity in Microfractures**  
Çiçek H., Baldan Işık İ., Tuhanoğlu Ü., Oğur H., Günay İ., Çiçek F.  
International Congress on Biological and Medical Sciences 2018,, Niğde, Turkey, 31 October - 03 November 2018, pp.105
- V. **H<sub>2</sub>O<sub>2</sub> Differently Effects to the Contractions of Thoracic Aorta In Vivo Magnetic Field Exposure**  
Günay İ., Baldan Işık İ., Çiçek F., Öcal I., Coşkun Ç.  
30th Annual Biophysics Congress, Muğla, Turkey, 10 - 13 October 2018, pp.21
- VI. **Thermal QCD Sum Rules For Z<sub>c</sub> (3900) Treated As a Tetraquark State**  
Baldan Işık İ., Sundu Pamuk H., Veli E.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.352
- VII. **The Effects of 40 Hz Pulsed Magnetic Fields on H<sub>2</sub>O<sub>2</sub> Induced Ca<sup>2+</sup> Responses in the Vascular Smooth Muscle Cells**  
Baldan Işık İ., Çiçek F., Günay İ., Taştekin B.  
6th World Congress of Oxidative Stress , Isparta, Turkey, 24 - 27 May 2016, vol.8, no.1, pp.506
- VIII. **Quantitative Analysis of Low Atomic Number Elements by Laser Induced Breakdown Spectroscopy Technique**  
Demir A., Kaya E. B., Turan K., Baldan Işık İ., Işık H. H.  
10th Euro-Mediterranean Symposium on Laser-Induced Breakdown Spectroscopy, Brno, Czech Republic, 8 - 13 September 2019, pp.169-170

## Supported Projects

YILMAZKAYA SÜNGÜ J., BALDAN IŞIK İ., VELİ E., TÜRKAN A., ÇİFTLİ JUMASAHATOV A., SUNDU PAMUK H., Project Supported by Higher Education Institutions, TENSÖR MEZONLARIN HADRONİK PARAMETRELERİNİN TERMAL KRD

TOPLAM KURALLARI YÖNTEMİ İLE İNCELENMESİ, 2018 - 2019

Baldan Işık İ., Yılmazkaya Süngü J., Veli E., Sundu Pamuk H., Project Supported by Higher Education Institutions, HAFİF DÖRT KUARKLI YAPILARIN FİZİKSEL ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2019

Çiçek F., Baldan Işık İ., Günay İ., Project Supported by Higher Education Institutions, Pulslu Manyetik Alanın Vasküler Düz Kas Dokusunda BCL-2 Ekspresyonuna Etkisinin SDS PAGE yöntemi ile İncelenmesi, 2017 - 2018

Baldan Işık İ., Günay İ., Çiçek F., Project Supported by Higher Education Institutions, Pulslu Manyetik Alanın (PMA)

Apoptotik Protein Ekspresyonlarına Etkilerinin Rat Vasküler Düz Kaslarda İncelenmesi, 2017 - 2018

Baldan Işık İ., Eşkut E., Project Supported by Other Official Institutions, Hadronik Fıçı (HB) Kalorimetresi için Radyasyon Zararının (Raddam) Tespiti Çalışmaları, 2016 - 2018

## Metrics

Publication: 13

Citation (WoS): 1

Citation (Scopus): 1

H-Index (WoS): 1

H-Index (Scopus): 1

## Scholarships

Üstün Başarı Ödülü, Other Government Agencies, 2011 - 2013

## Awards

Baldan Işık İ., Fakülte Birinciliği, Çukurova Üniversitesi, May 2013

Baldan Işık İ., Başarı ödülü, Çukurova Üniversitesi, May 2013