

Res. Asst. Erdal ÇATAK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAF-8675-2020

Yoksis Researcher ID: 175412

Education Information

Doctorate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 2007 - 2013

Postgraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 2003 - 2006

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Quality Management, A-2 Tipi Mühendislik Akustiği Sertifikası, Çevre ve Şehircilik Bakanlığı, 2018

Logistics, Tehlikeli Madde Güvenlik Danışmanı Sertifikası, Ulaştırma Habercilik ve Deniz Bakanlığı, 2017

Dissertations

Doctorate, Yarı İletkenlerde Kusurlar ve Kusur Difüzyonu, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Bölümü/ Genel Fizik, 2013

Postgraduate, KÜTLEÇEKİM TEORİSİNDE DİFERENSİYEL GEOMETRİ YÖNTEMLERİ, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği, 2006

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Statistical physics, thermodynamic and nonlinear dynamic systems, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Natural Sciences

Academic Titles / Tasks

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2008 - Continues

Courses

fizikte matematiksel metotlar, Undergraduate, 2020 - 2021
termodinamik ve istatistik mekanik, Undergraduate, 2020 - 2021
düz ve kısmi diferansiyelli denklemler, Undergraduate, 2018 - 2019
bilgisayar programlama II (uygulama), Undergraduate, 2017 - 2018
rölativite teorilerine giriş(uygulama), Undergraduate, 2018 - 2019
bilgisayar programlama I (uygulama), Undergraduate, 2016 - 2017
düz ve kısmi türevli denklemler (uygulama), Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hyperbolic and trigonometric hypergeometric solutions to the star-star equation**
ÇATAK E., Gahramanov I., Mullahasanoglu M.
EUROPEAN PHYSICAL JOURNAL C, vol.82, no.9, 2022 (SCI-Expanded)
- II. **Muonium dynamics in transparent conducting oxides**
Celebi Y. G., Lichti R. L., Baker B. B., Mengyan P. W., Bani-Salameh H. N., Catak E.
PHYSICA B-CONDENSED MATTER, vol.407, no.15, pp.2879-2882, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Remark on the q-Hypergeometric Integral Bailey Pair and the Solution to the Star-Triangle Equation**
ÇATAK E.
Physics of Particles and Nuclei Letters, vol.20, no.6, pp.1357-1360, 2023 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Magnetic fields and fluctuations in weakly Mn doped ZnGeP₂**
Mengyan P. W., Lichti R. L., Celebi Y. G., Baker B. B., Carroll B. R., Catak E., Zawilski K. T., Schunemann P. G.
2014 IEEE International Conference on Automation Science and Engineering, CASE 2014, Taipei, Taiwan, 18 - 22 August 2014, vol.1583, pp.190-194
- II. **Motional characteristics of positively charged muonium defects in In₂O₃**
Baker B. B., Celebi Y. G., Lichti R. L., Mengyan P. W., Catak E.
2014 IEEE International Conference on Automation Science and Engineering, CASE 2014, Taipei, Taiwan, 18 - 22 August 2014, vol.1583, pp.323-326

Metrics

Publication: 5
Citation (WoS): 8
Citation (Scopus): 9
H-Index (WoS): 2
H-Index (Scopus): 1

Non Academic Experience

İstanbul Üniversitesi