Assoc. Prof. EREN CİHAN KARSU ASAL



Personal Information

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International Researcher IDs
ScholarID: GPF-8234-2022
ORCID: 0000-0001-6392-2668
Publons / Web Of Science ResearcherID: A-2782-2017
ScopusID: 57193704508
Yoksis Researcher ID: 112411

Education

2013 - 2014	Post Doctorate, Technische Universiteit Delft, Faculty of Applied Science, Radiation, Science and Technology, Netherlands
2007 - 2012	Doctorate, Turkey
2002 - 2005	Postgraduate, Turkey
1998 - 2002	Undergraduate, Turkey

Foreign Languages

English

Dissertations

2012	Nadir toprak elementleri ile katkılandırılmış itriyum tabanlı fosforların termolüminesans özelliklerinin incelenmesi, Doctorate
2005	X ray lümisenans sisteminin kurulması, kalibrasyonu ve çeşitli termolüminesans dozimetrelerinin spektroskopik özelliklerinin incelenmesi, Postgraduate

Research Areas

Avesis Research Areas: Natural Sciences, Engineering and Technology
WoS Research Areas: Nanoscience & Nanotechnology, Nuclear Science & Technology, Physics Nuclear, Physics Multidisciplinary, Physics Condensed Matter, Optics
Scopus Research Areas: Nuclear Energy and Engineering, Nuclear and High Energy Physics, Electronic, Optical and Magnetic Materials

Academic Positions

2023 - Present	Associate Professor, Manisa Celal Bayar University, TURGUTLU MESLEK YÜKSEKOKULU, ELEKTRİK VE ENERJİ

2022 - 2023	Assistant Professor, Manisa Celal Bayar University, TURGUTLU MESLEK YÜKSEKOKULU, ELEKTRİK VE ENERJİ
2013 - 2023	Research Assistant PhD, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, FİZİK
2003 - 2013	Research Assistant, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, FİZİK

Academic and Administrative Experience

2023 - Present	Erasmus Program Institutional Coordinator, Manisa Celal Bayar University, TURGUTLU MESLEK YÜKSEKOKULU
2014 - 2023	Erasmus Program Department Coordinator, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, FİZİK

Courses

Postgraduate

2025 - 2026	Toplum 5.0 ve Kadın
2025 - 2026	Deney Tasarımı, Modelleme ve Optimizasyon

Undergraduate

2023-2024, 2022-2023	PHY 1305 Physics 1 (Biyomühendislik)
2022-2023	PHY 1306 Physics 2 (Biyomühendislik Bölümü Örgün Öğretim)
2022-2023	FIZ 4299 Kristal Büyütme Yöntemleri
2022-2023	PHY 1306 Physics 2 (Makine Mühendisliği Bölümü Örgün Öğretim)
2022-2023	PHY 1306 Physics 2 (Makine Mühendisliği Bölümü İkinci Öğretim)
2021-2022	EEE 4105 Technical English (Örgün Öğretim)
2021-2022	PHY 1301 Physics 1 (Elektrik Elektronik Mühendisliği, Örgün Öğretim)
2021-2022	PHY 1301 Physics 1 (Elektrik Elektronik Mühendisliği, İkinci Öğretim)
2021-2022	EEM 4105 Teknik İngilizce (Örgün Öğretim)
2021-2022	PHY 1304 Physics 2 (Makine Mühendisliği Bölümü İkinci Öğretim)
2021-2022	PHY 1306 Physics 2 (Makine Mühendisliği Örgün Öğretim)
2021-2022	EEE 4105 Technical English (İkinci Öğretim)
2020-2021	FIZ 3218 Teknoloji Yönetimi
2020-2021, 2019-2020	FIZ 1110 Sosyal Sorumluluk ve Sosyal Etkinlik
2020-2021	FIZ 1305 Fizik 1 (Matematik Bölümü)
2017-2018	FIZ 4201 TEKNİK İNGİLİZCE 3

Associate Degree

2023-2024	EET 1109 Ölçme Tekniği (B Şubesi)
2023-2024	EET 1111 Temel Elektronik (B Şubesi)
2023-2024	EET 1103 Doğru Akım Devreleri (A Şubesi)
2023-2024	EET 1109 Ölçme Tekniği (A Şubesi)
2023-2024	EET 1111 Temel Elektronik (A Şubesi)
2023-2024	EET 1103 Doğru Akım Devreleri (B Şubesi)
2022-2023	IME 2102 İşletmede Mesleki Eğitim
2022-2023	EET 1112Sayısal Elektronik

Supervised Theses

in Progress	Karsu Asal E. C., Postgraduate, C.Afsar(Student), Nadir toprak elementlerinin OSL ölçümündeki rolu
2022	KARSU ASAL E. C., Postgraduate, Ö.Elif(Student), The Relationship Between Cultural Intelligence and Ease of Collaboration of Internationals in Multicultural Setting in Italy

Articles

I. **LuminaOSL: Development and Experimental Validation of a Modular Automated Platform for Optically Stimulated Luminescence Measurements**
Asal E. C., Taştan M., Gökozan H.
SENSORS, vol.26, no.18, pp.1-21, 2026 (SCI-Expanded, Scopus)

II. **Comparative Evaluation of Machine Learning and Hyperparameter Optimization Methods for Low-Cost CO2 Sensor Calibration in Terms of Performance and Computational Cost**
Karsu Asal E. C., Taştan M., Gökozan H., Özçevik M., Özçevik Y.
SENSORS, vol.26, no.12, pp.1-19, 2026 (SCI-Expanded, Scopus)

III. **AQ-MultiCal: An Interactive No-Code Machine Learning Platform for Low-Cost Air Quality Sensor Calibration and Comparative Model Analysis**
Taştan M., Karsu Asal E. C., Gökozan H.
SENSORS, vol.26, no.8, 2026 (SCI-Expanded, Scopus)

IV. **Orange Emitting SrS: Eu2+, Dy3+ Afterglow Phosphor: Structural and Luminescence Properties**
Karsu Asal E. C., Yılmaz S.
CUMHURIYET SCIENCE JOURNAL, vol.45, no.2, pp.394-399, 2024 (TRDizin)

V. **Amazonite in Pakistan: A Comprehensive Study with XRD, XPS, SEM, and PL Analyses**
Karsu Asal E. C.
CUMHURIYET SCIENCE JOURNAL, vol.44, no.2, pp.403-410, 2023 (TRDizin)

VI. **Luminescent properties of natural amazonite from Pakistan**
KARSU ASAL E. C.
Journal of Radioanalytical and Nuclear Chemistry, vol.332, no.6, pp.2401-2408, 2023 (SCI-Expanded, Scopus)

VII. **Low temperature luminescence and tunnelling effect in the Sr4Al14O25 co-doped with Eu2+and Dy3+ persistent luminescent phosphor**
KARSU ASAL E. C.
Radiation Physics and Chemistry, vol.202, 2023 (SCI-Expanded, Scopus)

VIII. **Thermoluminescence glow-curve deconvolution using analytical expressions: A unified presentation**
Peng J., Kitis G., Sadek A. M., KARSU ASAL E. C., Li Z.
Applied Radiation and Isotopes, vol.168, 2021 (SCI-Expanded, Scopus)

IX. **Thermoluminescence response of CaF2:Dy as a function of irradiation temperature between room temperature and 270 °C**
KARSU ASAL E. C., Polymeris G., Kitis G.
Radiation Measurements, vol.118, pp.14-19, 2018 (SCI-Expanded, Scopus)

X. **Prompt isothermal decay properties of the Sr4Al14O25 co-doped with Eu2+ and Dy3+ persistent luminescent phosphor**
Asal E. C., Polymeris G. S., Gultekin S., Kitis G.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.425, pp.55-61, 2018 (SCI-Expanded, Scopus)

XI. **Luminescent properties of scintillator nanophosphors produced by flame spray pyrolysis**
YILDIRIM S., KARSU ASAL E. C., ERTEKİN K., Celik E.
Journal of Luminescence, vol.187, pp.304-312, 2017 (SCI-Expanded, Scopus)

XII. **Spectroscopy, thermoluminescence and afterglow studies of CaLa4(SiO4)3O:Ln (Ln=Ce, Nd, Eu, Tb, Dy)**
Dobrowolska A., Karsu E. C., Bos A. J., Dorenbos P.
Journal of Luminescence, vol.160, pp.321-327, 2015 (SCI-Expanded, Scopus)

XIII. **Luminescence study of some yttrium tantalate-based phosphors**
Karsu E. C., Popovici E., EGE A., Morar M., Indrea E., Karali T., Can N.
Journal of Luminescence, vol.131, no.5, pp.1052-1057, 2011 (SCI-Expanded, Scopus)

XIV. **Kinetic characterization of MgB4O7: Dy,Na thermoluminescent phosphor**
Karsu E. C., Gökçe M., EGE A., Karali T., Can N., Prokic M.
Journal of Physics D: Applied Physics, vol.39, no.8, pp.1485-1488, 2006 (SCI-Expanded, Scopus)

Books

I. HOSPITAL INFRASTRUCTURE CASE STUDIES
Karsu Asal E. C., Demir A.
in: Handbook On Smarth Healthcare Engineering, Alexandru PASCU,Eren C. KARSU ASAL,Julia Claudia MÎRZA-ROȘCA,Luis Fernando TALAVERA MARTÍN, Editor, transilvania University Press, Brasov, pp.329-360, 2026

II. ELECTRICAL AND ELECTRONIC EQUIPMENT IN MEDICAL DEVICES AND IOT-BASED APPLICATIONS
Gökozan H., Taştan M., Karsu Asal E. C., Özçevik M., Özçevik Y.
in: Handbook On Smarth Healthcare Engineering, Alexandru PASCU,Eren C. KARSU ASAL,Julia Claudia MIRZA-ROSCA,Luis Fernando TALAVERA MARTÍN, Editor, Transilvania University Press, Brasov, pp.41-76, 2026

III. IT INFRASTRUCTURE OF HOSPITALS
Karsu Asal E. C.
in: Handbook On Smarth Healthcare Engineering, Alexandru PASCU,Eren C. KARSU ASAL,Julia Claudia MÎRZA-ROȘCA,Luis Fernando TALAVERA MARTÍN, Editor, Transilvania University Press, Brasov, pp.237-268, 2026

IV. MEDICAL EQUIPMENT AND TECHNICAL DIAGNOSTICS
Karsu Asal E. C., Taştan M., Gökozan H., Özçevik M., Özçevik Y.
in: Handbook on Smarth Healthcare Engineerin, Alexandru PASCU,Eren C. KARSU ASAL,Julia Claudia MÎRZA-ROȘCA,Luis Fernando TALAVERA MARTÍN, Editor, Transilvania University Press, Brasov, pp.283-306, 2026

V. ADVANCED ENGINEERING TECHNOLOGIES FOR HEALTHCARE
Eser C. B., Altıok T. Y., Karsu Asal E. C., Demir A.
in: Handbook On Smarth Healthcare Engineering, Alexandru PASCU,Eren C. KARSU ASAL,Julia Claudia MÎRZA-ROȘCA,Luis Fernando TALAVERA MARTÍN, Editor, Transilvania University Press, Brasov, pp.307-328, 2026

Papers Presented at Peer-Reviewed Scientific Conferences

I. AN INTEGRATED SYSTEM DESIGN FOR SPECTROSCOPY
Karsu Asal E. C., Taştan M., Gökozan H.
14th International Conference on Materials Science and Engineering, Brasov, Romania, 4 - 06 March 2026, vol.1, no.1, pp.16, (Summary Text)

II. **Smart Healthcare Engineering: An Innovative Educational Framework for Training Future Healthcare Engineers**
Pascu A., Mirza-Rosca J. C., Karsu Asal E. C., Martin L. F. T., Cuculea D. C., Ardelean G.
16th International Conference on The Future of Education, FOE 2026, Florence, Italy, 18 - 19 June 2026, (Full Text)

III. **Examining persistent phosphor properties of materials in a laboratory environment**
KARSU ASAL E. C.
13th International Conference on Materials Science and Engineering – BraMat 2024, Brasov, Romania, 13 March 2024, pp.66, (Summary Text)

IV. PROPERTIES OF LiAlSi2O6 PHOSPHOR
KARSU ASAL E. C.
8TH INTERNATIONAL INNOVATIVE STUDIES & CONTEMPORARY SCIENTIFIC RESEARCH CONGRESS (TOKYO SUMMIT-8), Tokyo, Japan, 12 - 14 January 2024, pp.435, (Summary Text)

V. **Analysis of Electron Trapping Centers in K-Rich Alkali Feldspars With Regard to Chemistry, Structural State, and Mineral Phases**
KARSU ASAL E. C.
2nd International Conference on Innovative Academic Studies, Konya, Turkey, 28 - 31 January 2023, (Summary Text)

VI. **LiB4O7:Cu,In ve MgB4O7:Dy,Na yapay lüminesans malzemelerinde ışınlama sıcaklığının Termolüminesans ışımaya etkisi**
Karsu Asal E. C.
ADIM Fizik Günleri 6, Balıkesir, Turkey, 19 - 21 July 2017, vol.19, pp.111-116, (Full Text)

VII. **Structural and Luminescence Properties of YTNO Ce3 Thin Films**
YILDIRIM S., KARSU ASAL E. C., Alicikus Z. A., ÇELİK E.
10th International Conference on Luminescence and ESR Dosimetry, Adana, Turkey, 5 - 07 September 2016, vol.1, pp.52, (Summary Text)

VIII. **Structural and Luminescence Properties of YTaO4 and YTaNbO4 Scintilator Nanoparticles Produced via Flame Spray Pyrolysis**
YILDIRIM S., KARSU ASAL E. C., Alicikus Z. A., ÇELİK E.
10th International Conference on Luminescence and ESR Dosimetry, Adana, Turkey, 5 - 07 September 2016, vol.1, pp.17, (Summary Text)

IX. **Structural and Luminescence Chracteristics of Orange Emitting Persistent Phosphor Based on SrS**
KARSU ASAL E. C., YILDIRIM S., KARALI T., BULUR E.
10th International Conference on Luminescence and ESR Dosimery, Adana, Turkey, 5 - 07 September 2016, vol.1, pp.44, (Summary Text)

X. **Detailed Study of Thermoluminescence Response of CaF2 as a Function of Irradiation Temperature**
KARSU ASAL E. C., Ioanna S., YILDIRIM S., George K.
10th International Conference on Luminescence and ESR Dosimetry, Adana, Turkey, 5 - 07 September 2016, (Summary Text)

XI. **Thermoluminescence Properties of Novel Ca3La2Si3O12 Ln2 Ln3**
KARSU ASAL E. C., Dobrowolska A., Bos A. J., Pieter D.
Lumidoz 9, The 9th International Conference on Luminescence and ESR Dosimetry, 2 - 04 September 2015, (Summary Text)

XII. **Optical Properties of Silicium Based Phosphors**
KARSU ASAL E. C., Dobrowolska A., Bos A. J., Dorenbos P.
Lumidoz 9 the 9th International Conference on Luminescence and ESR Dosimetry, 2 - 04 September 2015, (Summary Text)

XIII. **Luminescence Properties of Novel CaLa4(SiO4)3O:Ln (Ln=Ce, Nd, Eu, Tb, Dy)**
KARSU ASAL E. C.
INFM Bucurest National Institute of Matherials Physics Meetings, 23 - 25 July 2015, (Summary Text)

XIV. **Thermoluminescence Study of New Silisium Based Phosphors**
KARSU ASAL E. C.
NanoTR-11 Nanoscience and Nanotechnology Conference, 22 - 25 June 2015, (Summary Text)

XV. **Optical Characterization for Ca3La2Si3O12 Ln2 Ln3 Ln Ce Nb Eu Tb Dy**
KARSU ASAL E. C.
NanoTR 11 Nanoscience and Nanotechnology Conference, 22 - 25 June 2015, (Summary Text)

XVI. **Nadir Toprak İyonlarının Silisyum Oksit fosforlar Üzerine Etkisi**
KARSU ASAL E. C.
ADIM Fizik Günleri 4, Turkey, 28 - 29 May 2015, (Summary Text)

XVII. **Determination of thermally stimulated luminescence characteristics of glow curves in yttriyum based phosphors**
KARSU ASAL E. C., POPOVICI e. j., can n., ÇETİN A., ÇİPİLOĞLU M. A.
The 3rd International conference on the physics of optical materials and devices, 3 - 06 September 2012, (Summary Text)

XVIII. **İtriyum Tabanlı Fosforların Özellikleri**
KARSU ASAL E. C., Can N., EJ P., KANER TOHTAK G., YURTDAŞ DEPBOYLU G., YALÇIN T., DÖNMEZ B.
ADIM Fizik Günleri 2, Turkey, 25 - 27 April 2012, (Summary Text)

XIX. **Luminescence Study of Yttrium Based Phosphors**
KARSU ASAL E. C., EGE A., Popovici E., Can N.
Turksih Physical Society 28.International Physics Congress, Bodrum, Turkey, 6 - 09 September 2011, (Summary Text)

XX. **YTaO4 Fosforunun Termolüminesans Özelliklerinin İncelenmesi**
KARSU ASAL E. C., EGE A., Can N., Popovici E.
LUMİDOZ IV- Lüminesans Dozimetri Kongresi, Gaziantep, Turkey, 20 - 22 September 2010, (Summary Text)

XXI. **The Thermoluminescence Chracterization of Yttrium Based Phosphors vith Various Radiation Sources**
KARSU ASAL E. C., EGE A., Can N., Popovici E.
Turkish Physical Society 27th International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010, (Summary Text)

XXII. **Dumanlı Kuvars ve Yeşil Opal Minerallerinin Termolüminesans Kinetik Parametrelerinin Belirlenmesi**
DURUKAN GÜLTEPE M., KARSU ASAL E. C., AYVACIKLI M., CAN N.
X. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Muğla, Turkey, 6 - 09 October 2009, vol.2, (Summary Text)

XXIII. **Yeşil Opal Minerallerinin Termolüminesans Özelliklerinin İncelenmesi**
DURUKAN GÜLTEPE M., KARSU ASAL E. C., AYVACIKLI M., CAN N.
Lumidoz -III, Lümiensans Dozimetri Kongresi, Bodrum-Muğla, Turkey, 28 - 30 September 2009, pp.40, (Summary Text)

XXIV. **Doku Eşdeğer MgB4O7 Dy Na Termolüminesans Dozimetrelerinin Kinetik Karakterizasyonu**
KARSU ASAL E. C., AYVACIKLI M., GÖKÇE M., KARALI T., Can N., AVCU A.
3. Ulusal Lüminesans Dozimetri Kongresi, Turkey, 28 - 30 August 2009, (Summary Text)

XXV. **Investigation of Tm and Mn Doped MgB4O7 Thermoluminescence Dosimeters as a UVB Dosimeter**
KARSU ASAL E. C., EGE A., EKDAL KARALI E., HARMANŞAH C., KARALI T., Can N.
Turkish Physical Society 25th International Physics Congress, Muğla, Turkey, 25 - 29 August 2008, (Summary Text)

XXVI. **Gölmarmara Göl Sularında Manyetik Süseptibilite ve Element Tayini**
ŞABİKOĞLU İ., AYVACIKLI M., KARSU E. C., ÇAM KAYNAR S., EREEŞ F. S., Can N.
24. Uluslararsı Fizik Kongresi, 27 - 31 August 2007, pp.6, (Summary Text)

XXVII. **Dy İle Aktive Edilmiş MgB4O7 nin Termolüminesans Özelliklerinin Kinetik Karakterizasyonu**
KARSU E. C., GÖKÇE M., EGE A., KARALI T., Can N., Prokic M.
IX. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, İzmir, Turkey, 14 - 16 September 2005, (Summary Text)

XXVIII. **Dy ile Aktive Edilmiş MgB4O7'ın Termolüminesans Özelliklerinin Kinetik Karakterizasyonu**
KARSU ASAL E. C., GÖKÇE M., EGE A., KARALI T., CAN N., PROKIC M.
IX. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, İzmir, Turkey, 14 - 16 September 2005, (Summary Text)

XXIX. **Evolution of Trapping Parameters of thermally stimulated luminescence glow curves in Dy doped MgB4O7 phospor**
KARSU E. C., GÖKÇE M., EGE A., KARALI T., CAN N., Prokic M.
XVII. International Conference of Ion Beam Analysis, Sevilla, Spain, 26 June - 01 July 2005, pp.285, (Summary Text)

Funded Projects

2024 - Present	Optik Uyarımlı Lüminesans (Osl) Ölçüm Sistemi Tasarımı ve İnşası: Yeni Nesil Dozimetrelerin Geliştirilmesi, Project Supported by Higher Education Institutions, BAP Infrastructure
2023 - 2026	SHEng Smart Healthcare Engineering (Project No: 2023-1-RO01-KA220-HED-000159985), Erasmus Project, Erasmus+ KA2 Cooperation for Innovation and the Exchange of Good Practices, National Level
2012 - 2017	Persistent luminescence and storage phosphors deliberate design instead of serendipity, Other International Funding Programs

Patent

2026	Karsu Asal E. C., Hamm Doku, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2026/012792 , Standard Registration, 2026

Peer Reviews in Scientific Publications

September 2026	Handbook on Smarth Healthcare Engineering, Scientific / Professional Book Published by Renowned Publishing Houses
May 2025	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
April 2025	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
April 2025	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
March 2025	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
February 2025	APPLIED RADIATION AND ISOTOPES, SCI Journal
January 2025	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
January 2025	BOR DERGİSİ, National Scientific Refreed Journal
December 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
November 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
October 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
August 2024	BOR DERGİSİ, National Scientific Refreed Journal
August 2024	BOR DERGİSİ, National Scientific Refreed Journal
August 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
July 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
July 2024	BOR DERGİSİ, National Scientific Refreed Journal
June 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
April 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
January 2024	BOR DERGİSİ, National Scientific Refreed Journal
January 2024	BOR DERGİSİ, National Scientific Refreed Journal
January 2024	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
December 2023	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
December 2023	BOR DERGİSİ, National Scientific Refreed Journal
August 2023	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal
May 2023	BOR DERGİSİ, National Scientific Refreed Journal
April 2023	BOR DERGİSİ, National Scientific Refreed Journal
April 2023	BOR DERGİSİ, National Scientific Refreed Journal
January 2021	Optics Letters and Optical Materials Express, SCI Journal
January 2016	LUMINESCENCE, SCI Journal

Metrics

Publication: 48
Citation (WoS): 131
Citation (Scopus): 179
H-Index (WoS): 7
H-Index (Scopus): 7

Non Academic Experience

2023 - 2023	Aristotle University Physics Department, Araştırmacı

2017 - 2017	Aristotle University Physics Department, Araştırmacı
2016 - 2016	Aristotle University Physics Department, Araştırmacı
2013 - 2014	Delft University of Technology, Post Doktora
2012 - 2012	ETH Zurich (Eidgenössische Technische Hochschule Zürich), Araştırmacı