# Assoc. Prof. Furkan KURUOĞLU

## Personal Information



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**International Researcher IDs**
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ScopusID: 49961710200
Yoksis Researcher ID: 52385

## Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Physics, Turkey 2012 - 2018
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 2009 - 2012
Undergraduate, Trakya University, Fen-Edebiyat Fakültesi, Fizik, Turkey 2005 - 2009

## Certificates, Courses and Trainings

Education Management and Planning, Eğiticinin Eğitimi, İstanbul Üniversitesi, 2020
Vocational Training, SSI Solaris 100 RTP, Fotonika, 2017
Vocational Training, Dual Beam Scios Course, FEI, 2016
Vocational Training, XE100E AFM and XE100E Modes, Park System Corp., 2016
Vocational Training, Signatone Probe Station, Micropositioners and RF Microwave Probing, Tekno-Tıp, 2015
Vocational Training, Stylus Surface Profilmeters application, KLA Tencor, 2015
Vocational Training, Kulicke & Soffa Wire Bonder Model 4524, MEMS, 2014
Vocational Training, Mask Aligner Model MJB4, Süss Microtec, 2014
Vocational Training, Isıl Buharlaştırma İnce Film Kaplama Sistemi, Vak-sis R&D and Engineering, 2013

## Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Mechanical and Acoustic Properties of Condensed Matter, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Natural Sciences

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

I. **InGaAs-based Gunn light emitting diode**
Kalyon G., Mutlu S., Kuruoğlu F., Pertikel İ., Demir İ., Erol A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.159, 2023 (SCI-Expanded)

II. **Analysis of mixed optical transitions in dilute magnetic AlAs/GaAs/ GaMnAs quantum wells grown on high substrate index by molecular beam epitaxy**
Kerimova S., Dönmez Ö., Gunes M., Kuruoğlu F., Aydın M., Gümüş C., Erol A.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.290, 2023 (SCI-Expanded)

III. **A novel NiO-based p-i-n ultraviolet photodiode**
Sarcan F., Doğan U., Althumali A., Vasili H. B., Lari L., Kerrigan A., Kuruoğlu F., Lazarov V. K., Erol A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.934, 2023 (SCI-Expanded)

IV. **Boron- and Boric Acid-Treated Titanium Implant Surfaces in Sheep Tibia: A Histologic, Histomorphometric and Mechanical Study**
Aysesek N., ARISAN V., Balcioglu N. B., EROL A., KURUOĞLU F., SOLUK TEKKEŞİN M., ERSANLI S.
BIOENGINEERING-BASEL, vol.9, no.11, 2022 (SCI-Expanded)

V. **Dielectric Response and Capacitance Measurements of Ag/ PVAc-Si /p-Si Structure**
Süngü Mısırlıoğlu B., Gulsen D., Kuruoglu F., Çalışkan M., Ozkan A. S., Serin M.
SILICON, vol.14, no.16, pp.10795-10805, 2022 (SCI-Expanded)

VI. **A practical and cost-effective method to make permanently bonded acoustofluidic chips reconfigurable**
Kuruoğlu F.
Microfluidics and Nanofluidics, vol.26, no.9, 2022 (SCI-Expanded)

VII. **Surface acoustic wave quasi-Bessel beams generated by symmetrically tilted interdigital transducers**
Uluğ B., Kuruoglu F., Yalcin Y., Erol A., Sarcan F., Şahin A., Çiçek A.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.55, no.22, 2022 (SCI-Expanded)

VIII. **PREVENTIVE EFFECTS OF MATRIX-METALLOPROTEINASE INHIBITORS ON DENTAL EROSION**
KORUYUCU M., İLİSULU S. C., SARCAN F., KURUOĞLU F., EROL A., SEYMEN F.
FLUORIDE - QUARTERLY REPORTS, vol.55, no.2, pp.11, 2022 (SCI-Expanded)

IX. **Effects of annealing temperature on a ZnO thin film-based ultraviolet photodetector**
Dogan U., SARCAN F., Koc K. K., KURUOĞLU F., EROL A.
PHYSICA SCRIPTA, vol.97, no.1, 2022 (SCI-Expanded)

X. **Temperature-dependent sandwich and in-plane optical characterization of ternary chalcogenide TlSbS2**
Sarcan F., Aydin M., Kuruoğlu F., Dönmez Ö., Yıldırım S., Erol A.
Materials Science and Engineering B: Solid-State Materials for Advanced Technology, vol.272, 2021 (SCI-Expanded)

XI. **Improvement of fill factor by the utilization of Zn-doped PEDOT:PSS hole-transport layers for p-i-n planar type of perovskite solar cells**
Alishah H. M., Choı F. P., Kuruoglu F., Erol A., Güneş S.
ELECTROCHIMICA ACTA, vol.388, 2021 (SCI-Expanded)

XII. **Detailed study on effects of gate voltage, frequency and temperature on dielectric properties of Cu/PAr/n-CdS/SnO2 MIS Schottky diode**
KURUOĞLU F., ÇALIŞKAN M., YILDIRIM S., SERİN M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.54, no.14, 2021 (SCI-Expanded)

XIII. **Investigation of V-groove fabricated GaInNAs nipi solar cell structure**
Muhammetgulyyev A., Yalçın Y., KURUOĞLU F., ÇOKDUYGULULAR E., KINACI B., EROL A.
Optical and Quantum Electronics, vol.53, no.1, 2021 (SCI-Expanded)

XIV. **In vitro comparison of titanium surface conditioning via boron-compounds and sand-blasting acid-etching**

Zboun M., Arısan V., Topcuoglu N., Kuruoğlu F., Sener L., Sarcan F.
SURFACES AND INTERFACES, vol.21, 2020 (SCI-Expanded)

XV. **Well-ordered nanoparticle arrays for floating gate memory applications**
Kuruoglu F., Çalışkan M., Serin M., Erol A.
NANOTECHNOLOGY, vol.31, no.21, 2020 (SCI-Expanded)

XVI. **Electron Beam Dose and PMMA Thickness Dependent Circularity and Diameter Analysis of Au Nanodots**
Kuruoglu F., Yavuzçetin O., Erol A.
CURRENT NANOSCIENCE, vol.15, no.5, pp.486-491, 2019 (SCI-Expanded)

XVII. **V-groove etched 1-eV-GaInNAs nipi solar cell**
Muhammetgulyyev A., Kinaci B., Aho A., Yalcin Y., Cetinkaya Ç., Kuruoglu F., Guina M., Erol A.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.125, no.1, 2019 (SCI-Expanded)

XVIII. **Characterization of temperature dependent operation of a GaInNAs-based RCEPD designed for 1.3 mu m**
Sarcan F., Nordin M. S., Kuruoglu F., Erol A., Vickers A. J.
SUPERLATTICES AND MICROSTRUCTURES, vol.102, pp.27-34, 2017 (SCI-Expanded)

XIX. **Effect of thermal annealing and nitrogen composition on quantum transport in GaInNAs alloy based modulation doped quantum well structures**
Nutku F., Donmez Ö., Cokduygulular E., Sarcan F., Kuruoglu F., Mutlu S., Yildirim S., Erol A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.695, pp.404-409, 2017 (SCI-Expanded)

XX. **Optical Properties of Polyaniline Synthesized by Oxidative Polymerization and Electrical Characterization of Ag/PANI/PEDOT:PSS/Ag Structures**
Misirlioglu B. S., SERİN M., Kuruoglu F., Dasdan D. S.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.11, no.2, pp.219-224, 2016 (SCI-Expanded)

XXI. **Quantum oscillations and interference effects in strained n- and p-type modulation doped GaInNAs/GaAs quantum wells**
Sarcan F., Nutku F., Donmez Ö., Kuruoglu F., Mutlu S., Erol A., Yildirim S., Arikan M. C.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, no.30, 2015 (SCI-Expanded)

XXII. **Electrical, optical and theoretical characterization of doped and undoped calamitic liquid crystal: (s)-5-octyloxy-2-[[[4-(2-methyl butoxy) phenyl] imino] methyl] phenol**
SERİN M., Kuruoglu F., Mogulkoc M., ÇALIŞKAN M., Yalcin-Gurkan Y., Yasa-Sahin O., Sakar D., Bilgin-Eran B.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.8, pp.483-487, 2014 (SCI-Expanded)

XXIII. **Au/PAr/n-CdS/ITO polymer insulated MIS structure**
ÇALIŞKAN M., Kuruoglu F., SERİN M.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.16, pp.705-711, 2014 (SCI-Expanded)

XXIV. **Characterization of Cu/PAr/CdS MIS structure for sensor applications**
ÇALIŞKAN M., Kuruoglu F., SERİN M.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.8, pp.603-607, 2014 (SCI-Expanded)

XXV. **Electrical and thermodynamical characterization of thermotropic liquid crystal**
Sesigur F., Sakar D., Yasa-Sahin O., Kuruoglu F., ÇAKAR F., Mogulkoc M., ÇALIŞKAN M., CANKURTARAN Ö., SERİN M., Bilgin-Eran B.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.5, pp.572-576, 2011 (SCI-Expanded)

## Articles Published in Other Journals

I. **Band Profile and Surface Acoustic Wave Attenuation Analysis of Polygonal Cavity-type Piezoelectric Phononic Crystals**

Kuruoğlu F., Genç N., Erol A., Çiçek A.
Physics and Astronomy Reports, vol.1, no.1, pp.27-31, 2023 (Peer-Reviewed Journal)

II. **Influence of the Core Pillar Height on the Bandgap Characteristics of Piezoelectric Phononic Crystals with Ring-Shaped Grooves**
KURUOĞLU F.
CUMHURIYET SCIENCE JOURNAL, vol.43, no.2, pp.346-350, 2022 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

I. **OPTICAL AND STRUCTURAL CHARACTERISATION OF TERNARY CHALCOGENIDE TLSBSE2**
Aydın M., Kuruoğlu F., Sarcan F., Dönmez Ö., Yıldırım S., Erol A.
International Marmara Sciences Congress (Autumn) 2020, Kocaeli, Turkey, 4 - 05 December 2020, pp.49

II. **Surface and Electrical Characterization of a New Type Metallomesogen**
Şakar D., Kuruoğlu F., Serin M., Moğulkoç M., Bilgin-Eran B.
Chemical Physics Congress, Ankara, Turkey, 10 - 12 October 2012, pp.113

III. **Metal/Insulating Poly(vinyl acetate) Latex with Silicon Surfactant /Si MIS Structure**
Çalışkan M., KURUOĞLU F., MISIRLIOGLU B. S., Serin M., Yılmaz M., Saraç Özkan A.
Turkish Physical Society 35rd International Physical Congress, Muğla, Turkey, 4 - 08 September 2019, pp.344

IV. **Investigation of the preventive effects of matrix-metalloproteinase inhibitors on dental erosion: In vitro study.**
KORUYUCU M., İlisulu C., SARCAN F., KURUOĞLU F., SEYMEN F.
11th EAPD Interim Seminar and Guideline Workshop, Crete, Greece, 3 - 04 May 2019, vol.1, pp.1

V. **Well Ordered Au Nanodot Arrays for Memory Applications**
KURUOĞLU F., Çalışkan M., Serin M., Yavuzçetin Ö., EROL A.
Turkish Physical Society 34nd Internationa lPhysics Congrees, Muğla, Turkey, 5 - 09 September 2018, pp.193

VI. **Polyethyleneglycol (PEG) with Chewing Gum Additive For Dielectrıc Applicatıons**
Çalışkan M., Denktaş C., KURUOĞLU F., Serin M.
Turkish Physical Society 34nd International Physics Congrees, Muğla, Turkey, 5 - 09 September 2018, pp.1

VII. **Biocompatibility Evalution of Coaxial Electrospun PLA/BHA/GO Composite Nanofibers**
Erdemir G., Gündüz O., Ege Z. R., Özen S., Kuruoğlu F., Erol A., Kuruca D. S.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.788

VIII. **Examination of the Biocompatibility of Electrospun Pla/Sa/Ha Composite Nanofibers for the Bone Tissue Engineering Applications**
Erdemir G., Gündüz O., Cesur S., Kuruoğlu F., Erol A., Kuruca D. S.
International Congress on Engineering and Life Science, Kastamonu, Turkey, 26 - 29 April 2018, pp.787

IX. **Charge Storage Properties of Au Nanodots EmbeddedMOS Capacitor**
KURUOĞLU F., Çalışkan M., Serin M., EROL A., Yavuzçetin Ö.
nternational Conference on Condensed Matter and Materials Science, Adana, Turkey, 11 - 15 October 2017, pp.101

X. **Design Issues and Characterization of a GaInNAs-based Resonance Cavity Enhanced Photodetector**
SARCAN F., Nordin M. S., KURUOĞLU F., EROL A., Vickers A. J.
Nanophotonic and Micro/Nano Optic International Conference,, Paris, France, 7 - 09 December 2016, pp.133

XI. **Investigation of Electronic Transport Properties in GaInNAs/GaAs Quantum Well Structures**
NUTKU F., DÖNMEZ Ö., ÇOKDUYGULULAR E., SARCAN F., KURUOĞLU F., MUTLU S., YILDIRIM S., EROL A.
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.125

XII. **Nanodot Exposure in Different size With Using Electron Beam Lithography**
KURUOĞLU F., Yavuzçetin Ö., EROL A., Çalışkan M., Serin M.
Turkish Physical Society 32nd International Physics Congrees, Muğla, Turkey, 6 - 09 September 2016, pp.1

XIII. **Temperature and electric field dependence of localization in modulation doped GaInNAs/GaAs quantum well structures**
YILDIRIM S., EROL A., SARCAN F., NUTKU F., KURUOĞLU F., DÖNMEZ Ö.

9th International Physics Conference of the Balkan Physical Union-BPU9, İstanbul, Turkey, 24 - 27 August 2015, vol.9, pp.161

XIV. **Weak Localization and Weak Antilocalization in n- and p-type Modulation Doped GaInNAs/GaAs Quantum Wells**
NUTKU F., SARCAN F., DÖNMEZ Ö., KURUOĞLU F., MUTLU S., EROL A., YILDIRIM S., ARIKAN M. Ç.
İstanbul Üniversitesi Dünya Teknoloji, İnovasyon ve Girişimcilik Konferansı, İSTANBUL, TÜRKIYE, 28-30 Mayıs 2015, İstanbul, Turkey, 28 - 30 May 2015, pp.80

XV. **Electrical Characterization of Thermotropic Liquid Crystal**
Sesigür F., Şakar D., KURUOĞLU F., Çakar F., Moğulkoç M., Çalışkan M., Cankurtaran Ö., Serin M.
International Physics Congress, Muğla, Turkey, 6 - 09 September 2011

XVI. **Electrical Properties Of Blends Of Poly(Ether Imide) And A Copolyester Of Bisphenol-A With Terephthalic And Isophthalic Acids**
Çakar F., KURUOĞLU F., Serin M., Cankurtaran Ö., Karaman F.
International Physics Congress, Muğla, Turkey, 6 - 09 September 2011

XVII. **Electrical Characterization of PSDA-1,-2 and PSDA-b-PEG**
Yazıcı Ö., Çalışkan M., KURUOĞLU F., Çakar F., Moğulkoç M., Serin M., Karaman F.
International Physics Congress, Muğla, Turkey, 6 - 09 September 2011

XVIII. **Multiwalled Carbon Nanotube Doped Ardel / N-cds Mis Structure**
KURUOĞLU F., Moğulkoç M., Çalışkan M., Serin M.
Nano Tr-7, İstanbul, Turkey, 29 June - 01 July 2011

XIX. **Electrical Properties Of Poly (Sulfonic Diphenyl Aniline) Andits Diblock Copolymer With Poly(EthyleneOxide)**
Serin M., Yazıcı Ö., Çalışkan M., Çakar F., KURUOĞLU F., Karaman F.
Solar-TR, Ankara, Turkey, 29 April - 30 May 2010, pp.1

## Supported Projects

DÖNMEZ Ö., EROL A., SARCAN F., KURUOĞLU F., MUTLU S., KALYON G., Project Supported by Higher Education Institutions, Nano ve Optoelektronik Araştırma Laboratuvarları Optoelektronik Aygıt Üretimi ve Karakterizasyonu Araştırma Altyapısının Sürekliliği ve Geliştirilmesi, 2022 - Continues

KURUOĞLU F., GÜNEŞ S., EROL A., GÖKDEMİR CHOİ F. P., Project Supported by Higher Education Institutions, Perovskite Tabanlı Güneş Pillerinde Organosülfür Gruplarının Tuzak Ve Yük İletim Mekanizmalarına Etkisinin İncelenmesi, 2021 - Continues

EROL A., ÖZHAN G., ULUTAŞ D., KURUOĞLU F., SOLAKOĞLU S., AKÇAALAN ALBAY R., CEVHER E., GÜL A., BAYKAL B., GAZİOĞLU C., et al., Project Supported by Higher Education Institutions, İstanbul Üniversitesi Araştırma Laboratuvarlarının Sürekliliği ve Geliştirilmesi, 2021 - Continues

EROL A., ÇİÇEK A., OKŞAK N., KURUOĞLU F., KURUCA D. S., ÖNCÜL M. O., Project Supported by Higher Education Institutions, Bessel yüzey akustik dalgalarına dayalı yonga üstü laboratuvar sistemi tasarımı üretimi ve test edilmesi, 2019 - Continues

Kuruoğlu F., Erol A., Çiçek A., Project Supported by Higher Education Institutions, Piezoelectric Phononic Crystal Based Mass Detection System Modeling and Analysis by Finite Element Methods, 2023 - 2024

ARISAN V., ALZBOUN M., TÜRKER ŞENER L., SARCAN F., KURUOĞLU F., EROL A., TOPCUOĞLU E. N., Project Supported by Higher Education Institutions, Bor İle Modifiye Titanyum İmplant Yüzeylerinde Biyofilm Oluşumu ve Osteoblast Aktivitesinin in vitro Analizi, 2019 - 2022

KURUOĞLU F., MERCAN D., BOSTAN Y. K., Project Supported by Higher Education Institutions, 3-Boyutlu yazıcı ile farklı tasarımda fotolitografi maskesi üretimi ve üretilen tasarımlarla yarıiletken aygıt fabrikasyonu kullanımı olarak kullanımı, 2021 - 2021

EROL A., PERÇİN ÖZKORUCUKLU S., KURUOĞLU F., AKALIN E., CEVHER E., AK T., ULUTAŞ H. K., GÜL A., SIRMA EKMEKCİ S., DÖNMEZ Ö., et al., Project Supported by Higher Education Institutions, İstanbul Üniversitesi Araştırma Laboratuvarları Sürekliliği Araştırma Desteği, 2018 - 2021

KORUYUCU M., SEYMEN F., SARCAN F., İLİSULU S. C., KURUOĞLU F., Project Supported by Higher Education Institutions, Matrixmetalloproteinaz (MMP) inhibitörlerinin dentin erozyonu ve abrazyonu üzerine koruyucu etkisinin invitro olarak değerlendirilmesi, 2017 - 2019
Kuruoğlu F., Serin M., Çalışkan M., Project Supported by Higher Education Institutions, Nano yapılı uçucu olmayan bellek aygıtlarının üretimi ve karakterizasyonu, 2015 - 2019
EROL A., SARCAN F., KURUOĞLU F., ÇOKDUYGULULAR E., ÇETİNKAYA Ç., DÖNMEZ Ö., NUTKU F., KARA K., AKALIN E., Project Supported by Higher Education Institutions, Characterization of temperature dependent operation of a GaInNAsbased RCEPD designed for 1.3 um, 2018 - 2018
EROL A., KARA K., SARCAN F., DÖNMEZ Ö., NUTKU F., YILDIRIM S., MUTLU S., KURUOĞLU F., AKALIN E., Project Supported by Higher Education Institutions, GaInNAs ve GaAsBi yarıiletkenleri ve bunlara dayalı geliştirilen aygıtların karakterizasyonu, 2017 - 2018
Kuruoğlu F., Serin M., Project Supported by Higher Education Institutions, Metal/Organik-İnorganik/CdS/ITO ince film Hibrit Eklemlerin Yapısal, Elektrik ve Optik Özelliklerinin İncelenmesi., 2011 - 2018
EROL A., KURUOĞLU F., Project Supported by Higher Education Institutions, Nanoyapılı non-volatile bellek üretimi ve karakterizasyonu, 2015 - 2017
DÖNMEZ Ö., EROL A., KURUOĞLU F., ASLAN M., Project Supported by Higher Education Institutions, Infrared fotoiletken optik anahtar, 2015 - 2016
Kuruoğlu F., Süngü Mısırlıoğlu B., Serin M., Project Supported by Higher Education Institutions, Fotoakım ölçüm yöntemi ile güneş pillerinin rekombinasyon mekanizmalarının incelenmesi , 2012 - 2016
Kuruoğlu F., Süngü Mısırlıoğlu B., Serin M., Project Supported by Higher Education Institutions, Metal/Yarıiletken (MY) ve Metal/Yalıtkan/Yarıiletken (MYY) Schottky Diyot Yapıların Elektriksel Karakterizasyonu , 2012 - 2016
Kuruoğlu F., Çalışkan M., Serin M., Project Supported by Higher Education Institutions, Alüminyum-Alüminyum Oksit-Yarıiletken Polimer MIS Yapılarının Elektrik ve Optik Özelliklerin İncelenmesi ve Sensör Uygulamaları, 2012 - 2015
Kuruoğlu F., Çalışkan M., Serin M., Project Supported by Higher Education Institutions, Organik/İnorganik Hibrit Eklemlerin Elektrik ve Optik Özellikleri, 2012 - 2015
Kuruoğlu F., Şakar Daşdan D., Serin M., Project Supported by Higher Education Institutions, Sıvı Kristallerin optik özellikleri, 2012 - 2014
Kuruoğlu F., Serin M., Şakar Daşdan D., Project Supported by Higher Education Institutions, Metallomesogenlerin Sentezi, Mesomorfik Özelliklerinin ve Polimer Karışımlarının Çeşitli Yöntemlerle İncelenmesi, 2011 - 2013

## Patent

Kuruoğlu F., Erol A., ORDERED NANOPARTICLES BASED NEW GENERATION NONVOLATILE MEMORY DEVICE, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2019/08827 , Standard Registration, 2019

## Mobility Activity

Other, Seminar, Raith GmbH, Germany, 2017 - 2017
Other, Guest Researcher, University of Wisconsin-Whitewater, United States Of America, 2017 - 2017
Other, Guest Researcher, Sivas Cumhuriyet University, Turkey, 2010 - 2010

## Metrics

Publication: 46
Citation (WoS): 71
Citation (Scopus): 78
H-Index (WoS): 5
H-Index (Scopus): 5