Prof. YÜKSEL KARABULUT

Personal Information

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International Researcher IDs
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Publons / Web Of Science ResearcherID: PYY-5858-2026
ScopusID: 6507901345
Yoksis Researcher ID: 37789

Education

Doctorate, Ege University, Turkey 1995 - 2002
Postgraduate, Ege University, Turkey 1991 - 1995
Undergraduate, Ege University, Turkey 1987 - 1991

Foreign Languages

English

Dissertations

Doctorate, Ultrases alansız ve alanlı bazı sulu elektrolit çözeltilerde, elektriksel iletkenlik ve viskozite katsayısının incelenmesi, Ege University, 2002
Postgraduate, Bazı 1-1 ve 2-2 değerlikli elektrolit çözeltilerde ultrases hızının sıcaklıkla değişimi, Ege University, 1995

Academic Positions

Professor, Manisa Celal Bayar University, 2024 - Present
Associate Professor, Manisa Celal Bayar University, 2015 - Present
Assistant Professor, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, FİZİK, 2002 - 2015
Lecturer PhD, Dokuz Eylul University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2001 - 2002
Research Assistant, Ege University, 1993 - 2001

Academic and Administrative Experience

2006 - 2010
2006 - 2009

Courses

Courses

Undergraduate

Optik, Undergraduate, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020
Fizik I, Undergraduate, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020, 2017-2018, 2016-2017, 2015-2016
Fizik Lab., Undergraduate, 2023-2024, 2022-2023, 2021-2022
Fizik II, Undergraduate, 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020, 2017-2018, 2016-2017, 2015-2016
Bitirme Projesi I, Undergraduate, 2022-2023, 2020-2021
Bitirme Projesi II, Undergraduate, 2022-2023, 2021-2022
Molekül Fiziği, Undergraduate, 2022-2023, 2021-2022
Atom ve Molekül Fiziği, Undergraduate, 2021-2022, 2020-2021, 2019-2020
Kaynak Araştırması, Undergraduate, 2020-2021
Dalga ve Salınımlar Laboratuvarı, Undergraduate, 2019-2020
Spektroskopi, Undergraduate, 2017-2018, 2016-2017, 2015-2016
GEOMETRİK OPTİK, Undergraduate, 2017-2018
MODERN FİZİK II, Undergraduate, 2017-2018, 2016-2017, 2015-2016
MODERN FİZİK I, Undergraduate, 2017-2018, 2016-2017, 2015-2016
Modern Fizik II, Undergraduate, 2014-2015, 2013-2014, 2012-2013, 2011-2012
FİZİK II, Undergraduate, 2014-2015, 2013-2014
Fizik I, Undergraduate, 2014-2015, 2013-2014, 2012-2013
Modern Fizik I, Undergraduate, 2014-2015, 2013-2014, 2012-2013
Spektroskopi, Undergraduate, 2012-2013
Geometrik Optik, Undergraduate, 2011-2012
Fizik Optik, Undergraduate, 2011-2012

Undergraduate Minor

Modern Fizikte Seçme Konular I, Undergraduate Minor, 2021-2022, 2015-2016
MODERN FİZİKTE SEÇME KONULAR II, Undergraduate Minor, 2017-2018, 2015-2016
MODERN FİZİKTE SEÇME KONULAR I, Undergraduate Minor, 2014-2015, 2013-2014, 2011-2012
MODERN FİZİKTE SEÇME KONULAR II, Undergraduate Minor, 2014-2015, 2012-2013, 2011-2012

Undergraduate Double Major

FİZİKTE SPEKTROSKOPİK YÖNTEMLER II, Undergraduate Double Major, 2017-2018, 2015-2016
FİZİKTE SPEKTROSKOPİK YÖNTEMLER I, Undergraduate Double Major, 2015-2016
FİZİKTE SPEKTROSKOPİK YÖNTEMLER I, Undergraduate Double Major, 2014-2015, 2012-2013
FİZİKTE SPEKTROSKOPİK YÖNTEMLER II, Undergraduate Double Major, 2014-2015, 2013-2014, 2012-2013

Supervised Theses

KARABULUT Y., SrAl2O4:Dy Fosforunun Sentezlenmesi ve Termolüminesans Kinetik Parametrelerinin Belirlenmesi, Postgraduate, S.KARADEMİR(Student), 2023
KARABULUT Y., Rubelit'in lüminesans ve optik özelliklerinin incelenmesi, Postgraduate, S.GÜLER(Student), 2012
KARABULUT Y., Farklı termolüminesans malzemelerin kinetik parametrelerinin incelenmesi, Postgraduate, L.TÜRKLER(Student), 2010
KARABULUT Y., Agate ve kemmererite minerallerinin lüminesans özelliklerinin incelenmesi, Postgraduate, E.TOPTAŞ(Student), 2008
KARABULUT Y., Çeşitli termolüminesans dozimetri malzemelerinin ışınma eğrilerinin incelenmesi, Postgraduate, B.KAYKAL(Student), 2005
KARABULUT Y., Minerallerin lüminesans özelliklerinin incelenmesi, Postgraduate, N.KELEŞ(Student), 2005

Articles

I. **Cathodoluminescence properties of La2MoO6:Ln3+ (Ln: Eu, Dy, and Sm) phosphors**
AYVACIKLI M., Kaynar Ü. H., KARABULUT Y., Guinea J. G., Bulcar K., Can N.
Applied Radiation and Isotopes, vol.166, 2020 (SCI-Expanded, Scopus)

II. **Cathodoluminescence and photoluminescence properties of Dy doped La2CaB10O19 phosphor**
AYVACIKLI M., Kaynar Ü. H., KARABULUT Y., Guinea J. G., DOĞAN T., Can N.
Optical Materials, vol.110, 2020 (SCI-Expanded, Scopus)

III. **Synthesis and competitive luminescence quenching mechanism of Ca3Al2O6:Ln3+ (Ln: Dy and Sm) phosphors**
Bakr M., Kaynar Ü. H., AYVACIKLI M., Benourdja S., KARABULUT Y., Hammoudeh A., Can N.
Materials Research Bulletin, vol.132, 2020 (SCI-Expanded, Scopus)

IV. **Enhancing the blue luminescence behaviour of the Li co-doped novel phosphor ZnB2O4: Tm3+**
KÜÇÜK N., Kaynar Ü. H., AKÇA ÖZALP S., Alajlani Y., Yin L., Wang Y., Garcia Guinea J., Bulcar K., DOĞAN T., KARABULUT Y., et al.
Journal of Alloys and Compounds, vol.838, 2020 (SCI-Expanded, Scopus)

V. **Synthesis and photoluminescence characteristics of Dy incorporated MoO3 phosphor: Suppression concentration quenching**
AYVACIKLI M., Kaynar Ü. H., KARABULUT Y., Canimoglu A., Bakr M., AKÇA ÖZALP S., Can N.
Applied Radiation and Isotopes, vol.164, 2020 (SCI-Expanded, Scopus)

VI. **Eu3+ and Dy3+ doped La2MoO6 and La2Mo2O9 phosphors: Synthesis and luminescence properties**
Kaynar Ü. H., ÇAM KAYNAR S., Alajlani Y., AYVACIKLI M., Karali E., KARABULUT Y., AKÇA ÖZALP S., Karali T., Can N.
Materials Research Bulletin, vol.123, 2020 (SCI-Expanded, Scopus)

VII. **Influence of laser excitation power on temperature-dependent luminescence behaviour of Ce- and Tb-incorporated BaMgAl10O17 phosphors**
Kaynar Ü. H., ÇAM KAYNAR S., AYVACIKLI M., KARABULUT Y., Souadi G., Can N.
Radiation Physics and Chemistry, vol.168, 2020 (SCI-Expanded, Scopus)

VIII. **Comparative studies on thermoluminescence characteristics of non-doped Mg2SiO4 prepared via a solid-state reaction technique and wet-chemical method: An unusual heating rate dependence**
DOĞAN T., AKÇA ÖZALP S., YÜKSEL M., KÜÇÜK N., AYVACIKLI M., KARABULUT Y., Canimoglu A., TOPAKSU M., Can N.
Journal of Alloys and Compounds, vol.795, pp.261-268, 2019 (SCI-Expanded, Scopus)

IX. **Characterization and thermoluminescence behavior of beta irradiated NaBaBO 3 phosphor synthesized by combustion method**
Oglakci M., AKÇA ÖZALP S., HALEFOĞLU Y. Z., DOĞAN T., AYVACIKLI M., KARABULUT Y., TOPAKSU M., Can N.
Ceramics International, vol.45, no.6, pp.7011-7017, 2019 (SCI-Expanded, Scopus)

X. **Cathodoluminescence and thermoluminescence of ZnB2O4:Eu3+ phosphors prepared via wet-chemical synthesis**
DOĞAN T., Tormo L., AKÇA ÖZALP S., KÜÇÜK N., Guinea J. G., KARABULUT Y., AYVACIKLI M., Oglakci M., TOPAKSU M., Can N.
Ceramics International, vol.45, no.4, pp.4918-4925, 2019 (SCI-Expanded, Scopus)

XI. **Anomalous heating rate response of beta irradiated Sm3+ and Tb3+ doped BaAl2O4 phosphors**
Kaynar Ü., Guvener E., AYVACIKLI M., DOĞAN T., Balci-Yegen S., Oglakci M., TOPAKSU M., KARABULUT Y., Canimoglu A., Benourdja S., et al.
Journal of Alloys and Compounds, vol.764, pp.523-529, 2018 (SCI-Expanded, Scopus)

XII. **Preparation and cathodoluminescence characteristics of rare earth activated BaAl2O4 phosphors**
Benourdja S., Kaynar Ü. H., AYVACIKLI M., KARABULUT Y., Guinea J. G., Canimoglu A., Chahed L., Can N.
Applied Radiation and Isotopes, vol.139, pp.34-39, 2018 (SCI-Expanded, Scopus)

XIII. **Thermoluminescence behavior of Sm3+ activated ZnB2O4 phosphors synthesized using low temperature chemical synthesis method**
Bulcar K., DOĞAN T., AKÇA ÖZALP S., YÜKSEL M., AYVACIKLI M., KARABULUT Y., KÜÇÜK N., Canimoglu A., Can N., TOPAKSU M.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.428, pp.65-71, 2018 (SCI-Expanded, Scopus)

XIV. **Doping Sm3+ into ZnB2O4 phosphors and their structural and cathodoluminescence properties**
KÜÇÜK N., Bulcar K., DOĞAN T., Garcia Guinea J., PORTAKAL Z. G., KARABULUT Y., AYVACIKLI M., Canimoglu A., TOPAKSU M., Can N.
Journal of Alloys and Compounds, vol.748, pp.245-251, 2018 (SCI-Expanded, Scopus)

XV. **Thermoluminescence dose and heating rate dependence and kinetic analysis of ZnB2O4:0.05Dy3+ phosphor**
Balci-Yegen S., YÜKSEL M., KÜÇÜK N., KARABULUT Y., AYVACIKLI M., Can N., TOPAKSU M.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.416, pp.50-54, 2018 (SCI-Expanded, Scopus)

XVI. **Preparation and characterization of Yttrium based luminescence phosphors**
Muresan L., AYVACIKLI M., Garcia Guinea J., Canimoglu A., KARABULUT Y., Can N.
Optical Materials, vol.74, pp.150-158, 2017 (SCI-Expanded, Scopus)

XVII. **The role of calcination temperature on structural and luminescence behaviour of novel apatite-based Ca2Y 8(SiO4)6O2: Ce3+,Tb3+ phosphors**
Perhaita I., Muresan L., Silipas D., Borodi G., KARABULUT Y., Guinea J. G., AYVACIKLI M., Can N.
Applied Radiation and Isotopes, vol.130, pp.188-197, 2017 (SCI-Expanded, Scopus)

XVIII. **Synthesis and influence of ultrasonic treatment on luminescence of Mn incorporated ZnS nanoparticles**
Cadis A., Muresan L., Perhaita I., Munteanu V., KARABULUT Y., Garcia Guinea J., Canimoglu A., AYVACIKLI M., Can N.
Optical Materials, vol.72, pp.533-539, 2017 (SCI-Expanded, Scopus)

XIX. **Luminescence studies of zinc borates activated with different concentrations of Ce and La under x-ray and electron excitation**
KÜÇÜK N., AYVACIKLI M., AKÇA ÖZALP S., YÜKSEL M., Guinea J. G., KARABULUT Y., Canimoglu A., TOPAKSU M., Can N.
Applied Radiation and Isotopes, vol.127, pp.35-40, 2017 (SCI-Expanded, Scopus)

XX. **Luminescence characteristics of Dy3+ incorporated zinc borate powders**
PORTAKAL Z. G., DOĞAN T., Yegen S. B., KÜÇÜK N., AYVACIKLI M., Guinea J. G., Canimoglu A., KARABULUT Y., TOPAKSU M., Can N.
Journal of Luminescence, vol.188, pp.409-417, 2017 (SCI-Expanded, Scopus)

XXI. **Optical spectroscopy of the Ce-doped multicomponent garnets**
Canimoglu A., KARABULUT Y., AYVACIKLI M., Muresan L., Perhaita I., Barbu-Tudoran L., Garcia Guinea J., Karali T., Can N.
Applied Radiation and Isotopes, vol.114, pp.114-120, 2016 (SCI-Expanded, Scopus)

XXII. **Thermoluminescence studies of Nd doped Bi4Ge3O12 crystals irradiated by UV and beta sources**
KARABULUT Y., Canimoglu A., EKDAL KARALI E., AYVACIKLI M., Can N., Karali T.
Applied Radiation and Isotopes, vol.113, pp.18-21, 2016 (SCI-Expanded, Scopus)

XXIII. **Structural and luminescence effects of Ga co-doping on Ce-doped yttrium aluminate based phosphors**
AYVACIKLI M., Canimoglu A., Muresan L., Barbu Tudoran L., Garcia Guinea J., KARABULUT Y., Jorge A., Karali T., Can N.
Journal of Alloys and Compounds, vol.666, pp.447-453, 2016 (SCI-Expanded, Scopus)

XXIV. **Visible to infrared low temperature photoluminescence of rare earth doped bismuth germanate crystals**
Canimoglu A., AYVACIKLI M., KARABULUT Y., Karali T., Can N.
Applied Radiation and Isotopes, vol.111, pp.86-91, 2016 (SCI-Expanded, Scopus)

XXV. **Tunable luminescence of broadband-excited and narrow line green emitting Y2SiO5:Ce3+, Tb3+ phosphor**
Muresan L., KARABULUT Y., Cadis A., Perhaita I., Canimoglu A., Garcia Guinea J., Barbu Tudoran L., Silipas D., AYVACIKLI M., Can N.
Journal of Alloys and Compounds, vol.658, pp.356-366, 2016 (SCI-Expanded, Scopus)

XXVI. **Characterisation and luminescence studies of Tm and Na doped magnesium borate phosphors**

EKDAL KARALI E., Garcia Guinea J., KARABULUT Y., Canimoglu A., HARMANŞAH C., Jorge A., Karali T., Can N.
Applied Radiation and Isotopes, vol.103, pp.93-99, 2015 (SCI-Expanded, Scopus)

XXVII. **Studies on luminescence from a cerium-doped strontium stannate phosphor**
KARABULUT Y., AYVACIKLI M., Canimoglu A., Garcia Guinea J., Can N.
Luminescence, vol.30, no.4, pp.457-464, 2015 (SCI-Expanded, Scopus)

XXVIII. **Catholuminescence properties of rare earth doped CaSnO3 phosphor**
Canimoglu A., Garcia-Guinea J., KARABULUT Y., AYVACIKLI M., Jorge A., Can N.
Applied Radiation and Isotopes, vol.99, pp.138-145, 2015 (SCI-Expanded, Scopus)

XXIX. **Synthesis and luminescence properties of trivalent rare-earth element-doped calcium stannate phosphors**
KARABULUT Y., AYVACIKLI M., Canimoglu A., Guinea J. G., Kotan Z., EKDAL KARALI E., Akyuz O., Can N.
Spectroscopy Letters, vol.47, no.8, pp.630-641, 2014 (SCI-Expanded, Scopus)

XXX. **Strong visible and near-infrared cathodoluminescence in alkali feldspar**
KARABULUT Y., Canimoglu A.
Spectroscopy Letters, vol.47, no.6, pp.458-464, 2014 (SCI-Expanded, Scopus)

XXXI. **Luminescent, Structural, and Thermal Properties of the Unusual "Anatolian" Diaspore (Zultanite) from Turkey**
Canimoglu A., Garcia-Guinea J., Correcher V., KARABULUT Y., Tuncer Y., Can N.
SPECTROSCOPY LETTERS, vol.47, no.4, pp.292-300, 2014 (SCI-Expanded, Scopus)

XXXII. **Radioluminescence and photoluminescence characterization of Eu and Tb doped barium stannate phosphor ceramics**
AYVACIKLI M., Canimoglu A., KARABULUT Y., Kotan Z., Herval L., De Godoy M., Galvão Gobato Y., Henini M., Can N.
Journal of Alloys and Compounds, vol.590, pp.417-423, 2014 (SCI-Expanded, Scopus)

XXXIII. **Luminescence of dysprosium doped strontium aluminate phosphors by codoping with manganese ion**
KARABULUT Y., Canimoglu A., Kotan Z., Akyuz O., EKDAL KARALI E.
Journal of Alloys and Compounds, vol.583, pp.91-95, 2014 (SCI-Expanded, Scopus)

XXXIV. **Cathodoluminescence response from sanidine feldspar**
KARABULUT Y., Canmoğlu A., Can N.
Spectroscopy Letters, vol.46, no.8, pp.620-626, 2013 (SCI-Expanded, Scopus)

XXXV. **Solid state synthesis of SrAl2O4:Mn2+ co-doped with Nd3+ phosphor and its optical properties**
AYVACIKLI M., Kotan Z., EKDAL KARALI E., KARABULUT Y., Canimoglu A., Garcia Guinea J., Khatab A., Henini M., Can N.
Journal of Luminescence, vol.144, pp.128-132, 2013 (SCI-Expanded, Scopus)

XXXVI. **Solid state synthesis, characterization and optical properties of Tb doped SrSnO3 phosphor**
Kotan Z., AYVACIKLI M., KARABULUT Y., Garcia-Guinea J., Tormo L., Canimoglu A., Karali T., Can N.
Journal of Alloys and Compounds, vol.581, pp.101-108, 2013 (SCI-Expanded, Scopus)

XXXVII. **Third-order optical nonlinearities of Cu and Tb nanoparticles in $SrTiO_3$**
Cetin A., Kibar R., HATİPOĞLU M., Karabulut Y., Can N.
PHYSICA B-CONDENSED MATTER, vol.405, no.9, pp.2323-2325, 2010 (SCI-Expanded, Scopus)

XXXVIII. **Application for Tsallis thermostatistics to half-width method used in thermoluminescence glow peaks in analysis of thermal desorption spectra**
Kayacan O., Can N., KARABULUT Y., Afsar O.
Physica A: Statistical Mechanics and its Applications, vol.345, no.1-2, pp.107-120, 2005 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Thermoluminescence Heating Rate Behaviour of Zn(BO2)2:0,05 Dy3**
Balcı Yegen S., Yüksel M., Kucuk N., KARABULUT Y., AYVACIKLI M., Can N., Topaksu M.
7th World Congress and Expo on Nanotechnology and Materials Science, Frankfurt, Germany, 5 - 07 November

2018, (Summary Text)

II. **Thermoluminescence properties of Sm3 doped ZnB2O4 phosphors synthesized by low temperature chemical synthesis method**
bulcar k., DOĞAN T., AKÇA S., YÜKSEL M., AYVACIKLI M., KARABULUT Y., KÜÇÜK N., CANIMOĞLU A., can N., TOPAKSU M.
11th International Conference On Luminescence And ESR Dosimetry (LumiDoz-11), Gaziantep, Turkey, 5 - 09 September 2018, pp.59, (Summary Text)

III. **Thermoluminescence Response of Rare Earth Elements Doped Barium Aluminate Phosphors**
TOPAKSU M., Güvener E., AYVACIKLI M., KAYNAR Ü. H., Doğan T., KARABULUT Y., Canımoğlu A., Can N.
11th International Conference on Luminescence and ESR Dosimetry, 05 September 2018, (Summary Text)

IV. **Trap Depth Calculations for TL of Zn(BO2)2:0,05Dy3**
Balcı Yegen S., Yüksel M., Kucuk N., KARABULUT Y., AYVACIKLI M., Can N., Topaksu M.
TESNAT 2018, Antalya, Turkey, 20 - 22 April 2018, (Summary Text)

V. **Structural and luminescence characterization of novel oxyapetita-based phosphors.**
Perhaita I., Muresan L., Silipas D., Borodi G., KARABULUT Y., Garcia Guinea J., AYVACIKLI M., CANIMOĞLU A., Can N.
ÇUKUROVA UNIVERSITY INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIALS SCIENCE, Adana, Turkey, 11 - 15 October 2017, (Summary Text)

VI. **Synthesis and cathodoluminescence of Tb Doped Strontium Stannates with Perovskite Related Structures Emitting In the Green and Orange Region**
CANIMOĞLU A., AYVACIKLI M., KARABULUT Y., Gurnie J. G., Can N.
LumiDoz 10, Adana, Turkey, 5 - 07 September 2016, (Summary Text)

VII. **Nadir Toprak Elementi Katkılı İtriyum Oksit Nano Fosforların Sentezi ve Lüminesans Özelliklerinin İncelenmesi**
YÜKSEL O., KARABULUT Y., KAYNAR H. Ü., AYVACIKLI M., NURDOĞAN C.
LUMIDOZ9, Antalya, Turkey, 2 - 04 September 2015, (Summary Text)

VIII. **Infrared emission enhancement by UV excitation in SrAl2O4 Er3 Mn2**
Kiyoshi L., de Herval S., de Godoy M. P. F., Nobrega J. A., Galvao Gobato Y., Sergio Pizani P., Iikawa F., AYVACIKLI M., KARABULUT Y., Can N., et al.
XIII Brazilian Materials Research Society Meeting SBPMat 2014, Joao Pessoa, Brazil, 28 - 02 September 2014

IX. **An acoustic optic method using for the investigation of the structures of the transparent liquids**
KARABULUT Y., BAYER O.
4.Ulusal Sıvıhal Fiziği Sempozyumu, İstanbul, Turkey, 2 - 04 June 2000, (Summary Text)

X. **Rhelogy investigations of the various alcohol added detergent solutions**
BAYER O., KARABULUT Y.
4. Ulusal Sıvıhal Fiziği Sempozyumu, İstanbul, Turkey, 2 - 04 June 2000, (Summary Text)

XI. **The relationship between molecular structure and sound velocity in liquids**
BAYER O., KARABULUT Y.
4. Ulusal Sıvıhal Fiziği Sempozyumu, İstanbul, Turkey, 2 - 04 June 2000, (Summary Text)

XII. **Bazı 1 1 ve 2 2 değerlikli elektrolit çözeltilerde ultrases hızının sıcaklıkla değişimi**
BAYER O., KARABULUT Y.
Türk Fizik Derneği 15. Fizik Kongresi, Kaş-ANTALYA, Turkey, 26 - 29 September 1995, (Summary Text)

Funded Projects

PARALI L., KARABULUT Y., Project Supported by Higher Education Institutions, Bilgisayar Kontrollü Gerçek Zamanlı Sıcaklık Veri Toplama Sistemi, 2007 - 2009

KARABULUT Y., Bilgisayar Kontrollu Gerçek Zamanlı Sıcaklık Veri Toplama Sistemi, Continues

Peer Reviews in Scientific Publications

CERAMICS INTERNATIONAL, Other journals, April 2025
LUMINESCENCE, Other journals, April 2025
LUMINESCENCE, Other journals, April 2025
JOURNAL OF ALLOYS AND COMPOUNDS, Other journals, January 1900

Metrics

Publication: 50
Citation (WoS): 273
Citation (Scopus): 844
H-Index (WoS): 11
H-Index (Scopus): 21