Prof. YILMAZ YÜREKLİ

Personal Information

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International Researcher IDs
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Yoksis Researcher ID: 28311

Education

Doctorate, Izmir Institute Of Technology, Turkey 2003 - 2011
Postgraduate, Izmir Institute Of Technology, Turkey 2000 - 2003
Undergraduate, Ege University, Turkey 1993 - 2000

Foreign Languages

English

Dissertations

Doctorate, Preparation, characterization of enzyme immobilized membranes and modeling of their performances, Izmir Institute Of Technology, 2010
Postgraduate, Measurements of transport properties of polyacrylic systems using a gravimetric sorption method, Izmir Institute Of Technology, 2003

Research Areas

Avesis Research Areas: Bioengineering, Chemical Engineering and Technology
WoS Research Areas: Engineering Computing & Technology (Eng), Engineering, Materials Science
Scopus Research Areas: Surfaces, Coatings and Films, Materials Chemistry, Biomaterials, Process Chemistry and Technology, Filtration and Separation, Bioengineering, Chemical Engineering (miscellaneous), General Chemical Engineering, Physical Sciences

Academic Positions

Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2024 - Present
Assistant Professor, 2012 - Present
Associate Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2018 - 2024
Assistant Professor, Ondokuz Mayis University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2011 - 2012
Research Assistant, Izmir Institute Of Technology, 2000 - 2010

Academic and Administrative Experience

Manisa Celal Bayar University, 2024 - Present
2012 - Present
Manisa Celal Bayar University, 2018 - 2022
Ondokuz Mayis University, 2011 - 2012

Courses

Undergraduate
Enzyme Technology, Undergraduate, 2023-2024
Bioreaction Engineering, Undergraduate, 2022-2023
MASS TRANSFER, Undergraduate, 2018-2019
BİOTRANSPORT, Undergraduate, 2018-2019
MASS TRANSFER, Undergraduate, 2017-2018, 2016-2017, 2015-2016
BİOTRANSPORT, Undergraduate, 2017-2018, 2016-2017, 2015-2016
BİOREACTİON ENGİNEERİNG, Undergraduate, 2016-2017, 2015-2016
bioprocess engineering, Undergraduate, 2015-2016
Undergraduate Double Major
Membrane Separation Technologies, Undergraduate Double Major, 2023-2024

Supervised Theses

YÜREKLİ Y., Derin ötektik çözücü kullanılarak ekstrakte edilen deniz çayırı atıklarından biyojenik nanopartikül sentezi ve kompozit membran uygulamaları, Doctorate, A.İNAM(Student), 2025
YÜREKLİ Y., Zeolit nanopartikül içerikli kompozit membranların üretilmesi ve karakterizasyonu, Postgraduate, M.YILDIRIM(Student), 2015

Articles

I. **Nanostructurally enhanced hydrophilic/underwater superoleophobic membrane with anisotropic pore for oil-water separation**
Shao X., Wu K., Xu J., Jiang Y., Yue X., YÜREKLİ Y., Dai Y., Zhang T., Yang D., Qiu F.
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.737, 2026 (SCI-Expanded, Scopus)

II. **Nanostructured Ni-Al–(Fe(III) Schiff's Base) Layered Double Hydroxide for Efficient Removal of Methyl Orange Dye**
Khan S., Memon N., Memon S. Q., YÜREKLİ Y.
Chemistry Africa, vol.9, no.4, 2026 (ESCI, Scopus)

III. **Incorporation of hierarchical porous MIL-101@MXene into double-network hydrogel for an enhanced strategy for selective and effective removal of hazardous Hg2+ from water**
Pang J., Zhu Y., Li M., Xu J., Yuan Z., YÜREKLİ Y., Dai Y., Zhang T., Yang D., Qiu F.
Separation and Purification Technology, vol.380, 2026 (SCI-Expanded, Scopus)

IV. **In-situ self-assembly inverse beetle-like superhydrophobic ZIF-67-superhydrophilic/underwater superoleophobic membrane with efficient demulsification**
Wu K., Xu J., Jiang Y., Jiang Y., YÜREKLİ Y., Yue X., Dai Y., Zhang T., Yang D., Qiu F.
Chemical Engineering Journal, vol.529, 2026 (SCI-Expanded, Scopus)

V. **Process intensification through enzymatic decomposition of urea with simultaneous recovery of ammonia**
YÜREKLİ Y., Zhang T., Qiu F.
Journal of Environmental Chemical Engineering, vol.12, no.3, 2024 (SCI-Expanded, Scopus)

VI. **Large-scale fabrication NZVI rod arrays on cotton fiber surfaces for efficient selenium adsorption**
Zhang T., Yu H., Dai Y., Yang D., YÜREKLİ Y., Qiu F.
Biomass Conversion and Biorefinery, vol.14, no.11, pp.12613-12621, 2024 (SCI-Expanded, Scopus)

VII. **Behavior of enzymatic membranes under pressure: Effect of enzyme location**
YÜREKLİ Y., Guedidi S., Altinkaya S. A., Deratani A., Innocent C.
Applied Chemical Engineering, vol.7, no.2, 2024 (Scopus)

VIII. **A cellulose-based membrane with temperature regulation and water transportation for thermal management applications**
Chen Y., Zhang T., Li Y., YÜREKLİ Y., Qiu F., Yang D.
Composites Science and Technology, vol.243, 2023 (SCI-Expanded, Scopus)

IX. **Bionic root inspired CNT/regenerated cellulose aerogel membrane/Cu nanowires for enhancing physiological comfort**
Chen Y., Zhang R., Qiu F., Zhang T., Yang D., YÜREKLİ Y.
Cellulose, vol.30, no.15, pp.9529-9542, 2023 (SCI-Expanded, Scopus)

X. **Facile construction of Janus MXene/cellulose/ZnO membrane with EMI shielding property for on-demand personal thermal management**
Zhao B., Li C., Chen Y., Tian Q., YÜREKLİ Y., Qiu F., Zhang T.
Cellulose, vol.30, no.8, pp.5171-5185, 2023 (SCI-Expanded, Scopus)

XI. **Layer-by-layer self-assembly of multifunctional enzymatic UF membranes**
YÜREKLİ Y.
Journal of Applied Polymer Science, vol.137, no.22, 2020 (SCI-Expanded, Scopus)

XII. **Determination of adsorption characteristics of synthetic NaX nanoparticles**
YÜREKLİ Y.
Journal of Hazardous Materials, vol.378, 2019 (SCI-Expanded, Scopus)

XIII. **Determination of adsorption capacities of NaX Nano-particles against heavy metals and dyestuff NaX Nano-taneciklerin ağır metal ve boyar maddelere karşı adsorpsiyon kapasitelerinin belirlenmesi**
YÜREKLİ Y.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.34, no.4, pp.2113-2124, 2019 (SCI-Expanded, Scopus, TRDizin)

XIV. **Filtration and removal performances of membrane adsorbers**
YÜREKLİ Y., YILDIRIM M., Aydin L., Savran M.
Journal of Hazardous Materials, vol.332, pp.33-41, 2017 (SCI-Expanded, Scopus)

XV. **Removal of heavy metals in wastewater by using zeolite nano-particles impregnated polysulfone membranes**
YÜREKLİ Y.
Journal of Hazardous Materials, vol.309, pp.53-64, 2016 (SCI-Expanded, Scopus)

XVI. **Fabrication and Characterization Techniques of Filtration Membranes**
Yurekli Y., Polatoğlu İ., Baştürk S. B.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.175-181, 2015 (TRDizin)

XVII. **Paratiyon'un Organik Çözücülerdeki Çözünürlüğünün Hesaplanması**
Polatoğlu İ., Yurekli Y., Baştürk S. B.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.15, no.3, pp.401-405, 2015 (TRDizin)

XVIII. **Filtrasyon Membranları Üretim ve Karakterizasyon Yöntemleri**
YÜREKLİ Y., POLATOĞLU İ., BAŞTÜRK S. B.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.175-181, 2015 (TRDizin)

Books

I. **Principles of Membrane Surface Modification for Water Applications**
YÜREKLİ Y.
in: Promising Techniques for Wastewater Treatment and Water Quality Assessment, Iqbal Ahmed, J. Kevin Summers, Editor, IntechOpen, Londrina, pp.240-263, 2021

II. **Recovery of Heavy Metals by Membrane Adsorbers**
YÜREKLİ Y.
in: Green Adsorbents to Remove Metals, Dyes and Boron from Polluted Water, Inamuddin, Mohd Imran Ahamed, Eric Lichtfouse, Abdullah M. Asiri, Editor, Springer International Publishing, pp.143-170, 2021

III. **Surface Modification of Polymeric Membranes Using Nanomaterials for Water Applications**
Qun Seah M., YÜREKLİ Y., Lau W. J.
in: Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications, Oxana Vasilievna Kharissova, Leticia Myriam Torres Martínez, Boris Ildusovich Kharisov, Editor, Springer, pp.1-31, 2020

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Antibiyotik Gideriminde b-laktamaz İmmobilize Edilmiş Demir oksit Nanotaneciklerin Araştırılması**
YÜREKLİ Y., Soycan N., LEITGEB M., VASIĆ K.
VIII. Ulusal Biyomühendislik Kongresi, "Biyomühendislik Uygulamaları", Manisa, Turkey, 16 May 2024, (Summary Text)

II. **Enzimatik Membranların Antibiyotik Giderim Yetenekleri**
Soycan N., YÜREKLİ Y., LEITGEB M., VASIĆ K.
VIII. Ulusal Biyomühendislik Kongresi, "Biyomühendislik Uygulamaları", 16 - 18 May 2024, (Summary Text)

III. **Magnetic Field as a Tool for Enhancing β-Lactamase Activity**
VASIĆ K., PRIMOŽIČ M., TRBUŠIĆ M., GORIČAN V., JESENIK M., HAMLER A., KNEZ Ž., YÜREKLİ Y., LEITGEB M.
6th International Conference on Technologies & Business Models for Circular Economy, portoroz, Slovenia, 6 - 08 September 2023, (Full Text)

IV. **Zeolite Impregnated Polysulfone Membrane for the Removal of Metals in Wastewater**
YÜREKLİ Y.
Advances in Functional Materials, New York, United States Of America, 29 June - 03 July 2015, (Summary Text)

V. **Application of Zeolite Nano-Particles Impregnated Polysulfone Ultrafiltration Membrane for the Removal of Heavy Metals**
YILDIRIM M., YÜREKLİ Y.
Euromembrane 2015, September 6-10, 2015, RWTH Aachen University, Aachen, Germany, Aachen, Germany, 07 September 2015, vol.1, (Full Text)

Funded Projects

Yürekli Y., Atmaca İlhan H., Deliormanlı A. M., TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gastrointestinal Sistem Hastalıklarının (Gastrik Ülser Ve Mide Adenokarsinom) Tedavisi Ve İlaç Salım Uygulamalarında Kullanılmak Üzere Bi3+ Ve Ba2+ Katkılı Biyoaktif Cam Ve Metal Bazlı Yenilikçi Mikrorobotların Geliştirilmesi, 2024 - 2026

YÜREKLİ Y., İNAM A., Project Supported by Higher Education Institutions, BAP Research Project, Enzimatik Membran Reaktörlerin Proses Verimlilikleri Açısından İncelenmesi, 2023 - 2025

Yürekli Y., TÜBİTAK International Bilateral Joint Cooperation Program Project, The Slovenian Research Agency, ARRS Bilateral Joint Cooperation Program, Enzyme immobilization techniques for efficient removal of antibiotics in wastewater, 2023 - 2025

YÜREKLİ Y., Project Supported by Higher Education Institutions, BAP Research Project, Bor Sensörleri İçin Nano Kümelerin Geliştirilmesi, 2020 - 2023

Deliormanlı A. M., Atmaca İlhan H., Yürekli Y., TUBITAK Project, 1001 - Program for Supporting Scientific and

Technological Research Projects, Kemik Kanseri (Osteosarkom) Tedavisinde Kullanılmak Üzere Süperparamanyetik (Gamma-Fe2o3@Zno) Nanopartikülleri Içeren Multifonksiyonel Yeni Nesil Fotolüminesant Biyoaktif Camların Geliştirilmesi Ve In Vitro Karakterizasyonu, 2020 - 2023
POLATOĞLU İ., YÜREKLİ Y., Project Supported by Higher Education Institutions, BAP Research Project, Bazı Gıda Katkı Maddelerinin ve Tarım İlaçlarının Manyetit Çapraz Bağlı Tirozinaz Enzim Agregatları İle Tespit Edilmesi, 2017 - 2019
EROĞLU E., YÜREKLİ Y., Project Supported by Higher Education Institutions, İmmünoblot Tekniğinde Kullanılmak Üzere Yerli Malı Polisülfon Membranların Geliştirilmesi, 2017 - 2018
YÜREKLİ Y., Project Supported by Higher Education Institutions, Endüstriyel Atıksulardaki Ağır Metal İyonu ve Boyar Maddelerin Zeolit Nano Tanecikler Kullanılarak Uzaklaştırılması, 2015 - 2016
YÜREKLİ Y., Project Supported by Higher Education Institutions, Zeolite Impregnated Polysulfone Membrane For the Removal of Metals in Wastewater adlı çalışmanın sunumu, 2015 - 2015
YÜREKLİ Y., TUBITAK Project, Polimer/İnorganik/Üreaz Biyo-kompozit Membran Kullanarak Ürenin Tamamen Giderimi, 2014 - 2017
YÜREKLİ Y., Project Supported by Higher Education Institutions, Zeolit Nano Partiküllerinin Adsorpsiyon İzotermlerinin Belirlenmesi, 2014 - 2015
YÜREKLİ Y., POLATOĞLU İ., Project Supported by Higher Education Institutions, BAP Infrastructure, Biyokatalitik Membranların Hazırlanması ve Karakterizasyonu, 2014 - 2015
YÜREKLİ Y., TUBITAK Project, Atık Sulardaki Ağır Metallerin Zeolit Nano Parçacık DestekliKompozit Membranlarla Uzaklaştırılması, 2013 - 2016
POLATOĞLU İ., YÜREKLİ Y., Project Supported by Higher Education Institutions, BAP Infrastructure, Biyomühendislik Bölümü Araştırma Laboratuarının Kurulması, 2013 - 2015
YÜREKLİ Y., Project Supported by Higher Education Institutions, Biyomühendislik Bölümü Araştırma Laboratuarının Kurulması, 2013 - 2015
YÜREKLİ Y., Project Supported by Higher Education Institutions, Multi fonksiyonel enzimatik membranların üretilmesi ve performanslarının dinamik koşullarda belirlenmesi, 2013 - 2013
YÜREKLİ Y., TUBITAK Project, Multi Fonksiyonel Enzimatik MembranlarınÜretilmesi Ve Performanslarının Dinamik Koşullarda Belirlenmesi, 2012 - 2013
YÜREKLİ Y., TUBITAK Project, Enzim immobilize edilmiş membranların hazırlanması ve karakterizasyonu membran performanslarının belirlenmesi, 2006 - 2008
YÜREKLİ Y., TUBITAK Project, Polimerlerin transport özelliklerinin gravimetrik yöntemle ölçülmesi, 2000 - 2003

Peer Reviews in Scientific Publications

Other journals, January 2017
JOURNAL OF MEMBRANE SCIENCE, Other journals, January 2017
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, Other journals, January 2017
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Other journals, January 2017
JOURNAL OF MEMBRANE SCIENCE, Other journals, January 2016
MICROPOROUS AND MESOPOROUS MATERIALS, Other journals, January 2016
Other journals, January 2016
JOURNAL OF ADVANCED RESEARCH, Other journals, January 2016
Other journals, January 2015
MICROPOROUS AND MESOPOROUS MATERIALS, Other journals, January 2015

Metrics

Publication: 31
Citation (WoS): 44
Citation (Scopus): 442

H-Index (WoS): 3
H-Index (Scopus): 8