

Prof. Ömer Suat TAŞKIN

Personal Information

Office Phone: [+90 444 0 000](tel:+904440000) Extension: 26099

Email: omert@istanbul.edu.tr

Web: <https://avesis.istanbul.edu.tr/omert>

International Researcher IDs

ScholarID: 12239200249038109328

ORCID: 0000-0002-6284-1337

Publons / Web Of Science ResearcherID: C-2251-2014

ScopusID: 36970908400

Yoksis Researcher ID: 118103

Education Information

Doctorate, Istanbul Technical University, Fen Edebiyat, Kimya, Turkey 2011 - 2014

Postgraduate, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Kimyasal Oşinografi, Turkey 2008 - 2010

Undergraduate, Sakarya University, Fen Edebiyat, Kimya, Turkey 2004 - 2008

Dissertations

Doctorate, Synthesis and Characterization of Porous Macromolecular Materials and Their Applications, Istanbul University, Institute of Graduate Studies In Sciences, Kimya, 2014

Postgraduate, Marmara Denizi İstanbul Kıyılarında PAH ve Organoklörölü Pestisidlerin HPLC ile Tayini ve Sediment Jeokimyası, Istanbul University, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Kimyasal Oşinografi, 2010

Research Areas

Marine Sciences and Technology, Oceanography, Chemical Oceanography, Chemistry, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul University, Deniz Bilimleri Ve İşletmeciliği Enstitüsü, Deniz Bilimleri Ve İşletmeciliği Bölümü, 2023 - Continues

Associate Professor, Istanbul University, Deniz Bilimleri Ve İşletmeciliği Enstitüsü, Deniz Bilimleri Ve İşletmeciliği Bölümü, 2018 - 2023

Assistant Professor, Istanbul University, Deniz Bilimleri Ve İşletmeciliği Enstitüsü, Deniz Bilimleri Ve İşletmeciliği Bölümü, 2016 - 2018

Assistant Professor, Istanbul University, Deniz Bilimleri Ve İşletmeciliği Enstitüsü, Deniz Bilimleri Ve İşletmeciliği Bölümü, 2016 - 2018

Research Assistant PhD, Kırklareli University, Fen Edebiyat, Kimya, 2015 - 2016

Research Assistant, Istanbul Technical University, Fen Edebiyat, Kimya, 2011 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Ambidextrous polyanthracene/poly(ethylene glycol) copolymer for high capacity silicon anode in Li-ion batteries**
Taşkin Ö. S., Yuca N., Papavasiliou J., Avgouropoulos G., Karabayir E., Çetintaşoğlu M. E., Guney E., Kalafat I., Cetin B., Guzel E., et al.
JOURNAL OF POLYMER RESEARCH, vol.30, no.11, 2023 (SCI-Expanded)
- II. **Occurrence and environmental risk assessment of antifouling paint biocides in the Golden Horn Estuary, Sea of Marmara, Turkey**
KORKMAZ N., Kapudan T., TAŞKIN Ö. S., AKSU A., SAVUN HEKİMOĞLU B., Balkis N. Ç.
Regional Studies in Marine Science, vol.63, 2023 (SCI-Expanded)
- III. **Miscellaneous PEDOT:PTS (polythiophenesulfonyl chloride) based conductive binder for silicon anodes in lithium ion batteries**
Yuca Dođdu N., Kalafat I., Taskin O. S., Arici E.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.34, no.1, pp.279-286, 2023 (SCI-Expanded)
- IV. **Assessing cytotoxic activities, theoretical and in silico molecular docking calculations of phthalocyanines bearing cinnamyl groups**
Özten Ö., Kuznetsov A. E., GÖKÇE M., ERKAN S., Bulut E., TAŞKIN Ö. S., ZENGİN KURT B., Yıldız M. Z., Sobotta L., Güzel E.
Journal of Biomolecular Structure and Dynamics, 2023 (SCI-Expanded)
- V. **Self-Healing Systems in Silicon Anodes for Li-Ion Batteries**
Yuca N., Kalafat I., Guney E., Cetin B., Taskin O. S.
MATERIALS, vol.15, no.7, 2022 (SCI-Expanded)
- VI. **Expanded vermiculite-filled flexible polymer composites**
Cetin M. S., TOPRAKÇI O., Taskin O. S., Aksu A., KARAHAN TOPRAKÇI H. A.
JOURNAL OF ELASTOMERS AND PLASTICS, vol.54, no.1, pp.145-168, 2022 (SCI-Expanded)
- VII. **Biomass-derived polymeric binders in silicon anodes for battery energy storage applications**
Taskin O. S., Hubble D., Zhu T., Liu G.
GREEN CHEMISTRY, vol.23, pp.7890-7901, 2021 (SCI-Expanded)
- VIII. **Effective removal of Cs-137 ions from radioactive wastewater by Melamine-Styrene based Polymer (MSP)**
Karabayir E., Taskin O. S., ÖZDEMİR A., Şenkal B. F.
APPLIED RADIATION AND ISOTOPES, vol.176, 2021 (SCI-Expanded)
- IX. **Development of Low-Cost Silica-Based Core Material for Fire-Resistant Doors of Vessels**
AKSU A., ÇETİNTAŞOĞLU M. E., TAŞKIN Ö. S., Caglar-Balkis N.
Russian Journal of Applied Chemistry, vol.94, no.9, pp.1344-1350, 2021 (SCI-Expanded)
- X. **Biologically active phthalocyanine metal complexes: Preparation, evaluation of alpha-glycosidase and anticholinesterase enzyme inhibition activities, and molecular docking studies**
Guzel E., KOÇYİĞİT Ü. M., Taslimi P., ERKAN S., Taskin O. S.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.35, no.6, pp.1-9, 2021 (SCI-Expanded)
- XI. **Assessment of distribution of heavy metals and activity level of ²¹⁰Pb in biota from the northern coast of the Marmara Sea and Western Black Sea**
Karabayir E., TAŞKIN Ö. S., Simsek F. B., AKSU A., ÇAĞLAR N.
Marine Pollution Bulletin, vol.161, 2020 (SCI-Expanded)
- XII. **Hydrophobic pesticide endosulfan ($\alpha + \beta$) and endrin sorption on different types of microplastics**
Yurtsever M., Oz N., AKSU A., ÖZDELİCE N., ALTUĞ G., TAŞKIN Ö. S.
Journal of the Chemical Society of Pakistan, vol.42, no.5, pp.789-797, 2020 (SCI-Expanded)
- XIII. **Hydrophobic Pesticide Endosulfan (alpha plus beta) and Endrin Sorption on Different Types of Microplastics**
YURTSEVER M., ÖZ N., Aksu A., Balkis N., Altug G., Taskin O. S.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.42, no.5, pp.789-797, 2020 (SCI-Expanded)

- XIV. **Interconnected conductive gel binder for high capacity silicon anode for Li-ion batteries**
Taskin Ö. S., Yuca N., Papavasiliou J., Avgouropoulos G.
MATERIALS LETTERS, vol.273, 2020 (SCI-Expanded)
- XV. **An overview on efforts to enhance the Si electrode stability for lithium ion batteries**
Taşkin Ö. S.
ENERGY STORAGE, vol.2, no.94, pp.1-15, 2019 (SCI-Expanded)
- XVI. **Novel approach with polyfluorene/polydisulfide copolymer binder for high-capacity silicon anode in lithium-ion batteries**
Bulut E., Guzel E., YUCA N., Taskin O. S.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.4, 2019 (SCI-Expanded)
- XVII. **A radioactively durable melamine-styrene based polymer: Highly efficient removal of Sr-90**
KARABAYIR E., Ozdemir A., Şenkal B. F., Taskin O. S.
APPLIED RADIATION AND ISOTOPES, vol.149, pp.96-103, 2019 (SCI-Expanded)
- XVIII. **Monitoring the antioxidant activities by extracting the polyphenolic contents of algae collected from the Bosphorus**
Aslan E., Aksu A., Korkmaz N. E., Taskin O. S., Balkis Caglar N.
MARINE POLLUTION BULLETIN, vol.141, pp.313-317, 2019 (SCI-Expanded)
- XIX. **Highly efficient poly(fluorene phenylene) copolymer as a new class of binder for high-capacity silicon anode in lithium-ion batteries**
YUCA N., Cetintasoglu M. E., DOGDU M. F., Akbulut H., Tabanlı S., Çolak Ü., Taskin O. S.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.42, no.3, pp.1148-1157, 2018 (SCI-Expanded)
- XX. **Preparation of analytical columns and HPLC silica-based C-18 packing material synthesis from non-toxic silica source**
Taskin O. S., Aksu A., Cetintasoglu M. E., Korkmaz N., Torlak C., Balkis (Caglar) N.
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.41, no.10, pp.583-587, 2018 (SCI-Expanded)
- XXI. **An efficient, heterogeneous, reusable atom transfer radical polymerization catalyst**
Taskin O. S., Kışkan B., Yağcı Y.
POLYMER INTERNATIONAL, vol.67, no.1, pp.55-60, 2018 (SCI-Expanded)
- XXII. **A novel eco-friendly advanced enzymatic Fenton oxidation process for the treatment of ship wastewater**
Ersoy Korkmaz N., Aksu A., Taskin O. S., Aslan E., Balkis N.
DESALINATION AND WATER TREATMENT, vol.84, pp.160-168, 2017 (SCI-Expanded)
- XXIII. **Polybenzoxazines as Self-Healing Materials**
Kışkan B., Arslan M. Ş., Taskin Ö. S., Yağcı Y.
ADVANCED AND EMERGING POLYBENZOXAZINE SCIENCE AND TECHNOLOGY, pp.1019-1028, 2017 (SCI-Expanded)
- XXIV. **Melamine-based microporous polymer for highly efficient removal of copper(II) from aqueous solution**
Taskin O. S., Ersoy N., Aksu A., Kışkan B., Balkis N., Yağcı Y.
Polymer International, vol.65, no.4, pp.439-445, 2016 (SCI-Expanded)
- XXV. **New approaches for photoinduced CuAAC click reactions**
Yağcı Y., Yilmaz G., Taskin O. S., Dadashi-Silab S., Tasdelen M. A.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.251, 2016 (SCI-Expanded)
- XXVI. **Orthogonal Synthesis of Block Copolymer via Photoinduced CuAAC and Ketene Chemistries**
Tasdelen M. A., Taskin O. S., Celik C.
MACROMOLECULAR RAPID COMMUNICATIONS, vol.37, no.6, pp.521-526, 2016 (SCI-Expanded)
- XXVII. **Copper(II) removal from the aqueous solution using microporous benzidine-based adsorbent material**
Taskin O. S., Kışkan B., Aksu A., Balkis N., Yağcı Y.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.4, no.1, pp.899-907, 2016 (SCI-Expanded)

- XXVIII. **Fullerene-Attached Polymeric Homogeneous/Heterogeneous Photoactivators for Visible-Light-Induced CuAAC Click Reactions**
Taskin O. S., Yilmaz G., Yağcı Y.
ACS MACRO LETTERS, vol.5, no.1, pp.103-107, 2016 (SCI-Expanded)
- XXIX. **One-Pot, One-Step Strategy for the Preparation of Clickable Melamine Based Microporous Organic Polymer Network**
Taskin O. S., Kışkan B., WEBER J., Yağcı Y.
MACROMOLECULAR MATERIALS AND ENGINEERING, vol.300, no.11, pp.1116-1122, 2015 (SCI-Expanded)
- XXX. **Highly Efficient and Reusable Microporous Schiff Base Network Polymer as a Heterogeneous Catalyst for CuAAC Click Reaction**
Taskin O. S., Dadashi-Silab S., Kışkan B., Weber J., Yağcı Y.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.216, no.16, pp.1746-1753, 2015 (SCI-Expanded)
- XXXI. **Preparation of microporous organic polymer through Schiff base chemistry and its potential application**
Taskin O. S., Kışkan B., Aksu A., Balkis N., Yağcı Y.
DESIGNED MONOMERS AND POLYMERS, vol.18, no.6, pp.567-573, 2015 (SCI-Expanded)
- XXXII. **Synthesis of block copolymers by selective H-abstraction and radical coupling reactions using benzophenone/benzhydrol photoinitiating system**
Taskin O. S., Temel B. A., Tasdelen M. A., Yağcı Y.
EUROPEAN POLYMER JOURNAL, vol.62, pp.304-311, 2015 (SCI-Expanded)
- XXXIII. **Controlled Photopolymerization and Novel Architectures**
Doran S., Taskin Ö. S., Tasdelen M. A., Yağcı Y.
DYES AND CHROMOPHORES IN POLYMER SCIENCE, pp.81-121, 2015 (SCI-Expanded)
- XXXIV. **Polybenzoxazine: A Powerful Tool for Removal of Mercury Salts from Water**
Taskin O. S., Kışkan B., Aksu A., Balkis N., WEBER J., Yağcı Y.
CHEMISTRY-A EUROPEAN JOURNAL, vol.20, no.35, pp.10953-10958, 2014 (SCI-Expanded)
- XXXV. **Polystyrene-b-poly(2-vinyl phenacyl pyridinium) salts as photoinitiators for free radical and cationic polymerizations and their photoinduced molecular associations**
Taskin O. S., Erel-Goktepe I., Khan M. A. A., Pispas S., Yağcı Y.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.285, pp.30-36, 2014 (SCI-Expanded)
- XXXVI. **Photoinduced reverse atom transfer radical polymerization of methyl methacrylate using camphorquinone/benzhydrol system**
Taskin O. S., Yilmaz G., Tasdelen M. A., Yağcı Y.
POLYMER INTERNATIONAL, vol.63, no.5, pp.902-907, 2014 (SCI-Expanded)
- XXXVII. **Polybenzoxazine Precursors As Self-Healing Agents for Polysulfones**
Taskin O. S., Kışkan B., Yağcı Y.
MACROMOLECULES, vol.46, no.22, pp.8773-8778, 2013 (SCI-Expanded)
- XXXVIII. **Organochlorine residue and toxic metal (Pb, Cd and Cr) levels in the surface sediments of the Marmara Sea and the coast of Istanbul, Turkey**
Aksu A., Taskin O. S.
MARINE POLLUTION BULLETIN, vol.64, no.5, pp.1060-1062, 2012 (SCI-Expanded)
- XXXIX. **Toxic metal (Pb, Cd, As and Hg) and organochlorine residue levels in hake (Merluccius merluccius) from the Marmara Sea, Turkey**
Aksu A., Balkis N., Taskin O. S., Ersan M. S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.182, pp.509-521, 2011 (SCI-Expanded)
- XL. **Metal (Al, Fe, Mn and Cu) distributions and origins of polycyclic aromatic hydrocarbons (PAHs) in the surface sediments of the Marmara Sea and the coast of Istanbul, Turkey**
Taskin O. S., Aksu A., Balkis N.
MARINE POLLUTION BULLETIN, vol.62, no.11, pp.2568-2570, 2011 (SCI-Expanded)
- XLI. **Tracing of The Leachate in The Marine Medium**
Balkis N., Aksu A., Ersan M. S., Muftuoglu E., Zeki S., Demir V., Taskin O. S.

Articles Published in Other Journals

- I. **Evaluation of the pollution status after the rehabilitation works and the anthropogenic pressure factors of the Golden Horn Estuary (Sea of Marmara)**
Altok H., Yüksek A., Taş S., Dursun F., Ünlü V. S., Çağlar N., Aksu A., Taşkın Ö. S., Gürkan Y., Öztürk Ak İ. D., et al.
Journal of the Black Sea/Mediterranean Environment, vol.29, no.1, pp.143-166, 2023 (Peer-Reviewed Journal)
- II. **Hybrid Materials and Nanoparticles for Hybrid Silicon Solar Cells and Li-Ion Batteries**
Vázquez-López A., García-Carrión M., Kalafat İ., YUCA DOĞDU N., ARICI E. Ü., TAŞKIN Ö. S., Hall E., Yaseen A., Taeño M., Zhu J., et al.
Journal of Energy and Power Technology, vol.3, 2021 (Peer-Reviewed Journal)
- III. **Preparation of Silica based C8 Packing Material from Non-Toxic Water Glass**
Aksu A., Taşkın Ö. S., Çetintaşoğlu M. E., Korkmaz N., Torlak C., Çağlar N.
International Journal of Environment and Geoinformatics, vol.7, no.2, pp.127-131, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Marmara Denizi'nde Gözlenen Müsilaj Yapının Karakterizasyonu Ve Bu Oluşuma Fitoplanktonun Katkısı**
AKSU A., ÖZDELİCE N., ÇAĞLAR BALKIS N., TAŞKIN Ö. S., DURMUŞ T.
in: Marmara Denizi'nin Müsilaj Sorunu, Meriç Albay, Editor, İstanbul Üniversitesi Yayınevi, İstanbul, pp.135-146, 2023
- II. **Polybenzoxazines as Self-Healing Materials**
KISKAN B., Arslan M., TAŞKIN Ö. S., YAGCI Y.
in: Advanced and Emerging Polybenzoxazine Science and Technology, Hatsuo Ishida, Pablo Froimowicz, Editor, Elsevier Science, Oxford/Amsterdam , Cleveland, pp.1019-1028, 2017
- III. **Dyes and Chromophores in Polymer Science**
DORAN S., TAŞKIN Ö. S., TASDELEN M. A., YAGCI Y.
in: Controlled Photopolymerization and Novel Architectures, Jacques Lalevée and Jean-Pierre Fouassier, Editor, John Wiley & Sons, Inc., New Jersey, pp.81-121, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Applications Of Mussel Shells In Lithium Ion Batteries**
Çetintaşoğlu M. E., Taşkın Ö. S., Aksu A., Keleş Ö., Çağlar N.
5. Ulusal Deniz Bilimleri Konferansı, Trabzon, Turkey, 1 - 03 June 2022, pp.1-2
- II. **Haliç Suyuna Maruz Bırakılan Farklı Makroplastik Türleri Üzerinde Oluşan Biyofilmin ve Biyofilmdeki Öncelikli Kirleticilerin Fazlar Arasındaki Transferinin İncelenmesi**
Ünsal Özgüvenç T., Çağlar N., Aksu A., Korkmaz N., Balcıoğlu E. B., Taşkın Ö. S., Çetintaşoğlu M. E.
5. Ulusal Deniz Bilimleri Konferansı, Trabzon, Turkey, 1 - 03 June 2022, pp.1-2
- III. **A NOVEL MICROPOROUS COMPOSITE MATERIAL for VACUUM INSULATION PANELS (VIPs)**
TAŞKIN Ö. S., AKSU A., BALKIS N.
OEMT 2018, 19 - 21 September 2018
- IV. **Asfalt ve Toprak Üzerine Dökülen Yakıtların Temizliğini Yapan Yeni Yerli Mikrobiyal Absorban (Absorbgel®)**
AKSU A., TAŞKIN Ö. S., yalçın e., BALKIS N.
UKAY 2018, Turkey, 9 - 12 May 2018

V. Sustainability and Conservation of Water Resources

ÇAĞLAR N., AKSU A., Filazi A., GAZİOĞLU C., Yarsan E., DEMİR V., KORKMAZ N., TAŞKIN Ö. S.

International Congress of the New Approaches and Technologies for Sustainable Development, Isparta, Turkey, 21 - 24 September 2017, vol.1, no.1, pp.625-626

VI. Su Kaynaklarının Sürdürülebilirliği ve Korunumu

BALKIS N., AKSU A., FİLAZİ A., GAZİOĞLU C., Demir V., ERSOY N., TAŞKIN Ö. S.

International Congress of the New Approaches and Technologies for Sustainable Development, 21 - 24 September 2017, pp.624-625

VII. Gözenekli (Poröz) Malzemelerin Ağır Metal Gideriminde Uygulamaları

Taşkın Ö. S., Balkis N., Aksu A., Ersoy N.

TÜRKİYE DENİZLERİ BAKTERİLERİNİN BİYOTEKNOLOJİK KULLANIMI, İstanbul, Turkey, 20 October 2016, pp.173-180

VIII. Türkiye Denizleri Bakterilerinin Petrol Hidrokarbonları Degradasyonlarına Yönelik Analitik Veriler

Balkis N., Aksu A., Ersoy N., Taşkın Ö. S.

TÜRKİYE DENİZLERİ BAKTERİLERİNİN BİYOTEKNOLOJİK KULLANIMI, İstanbul, Turkey, 20 October 2016, pp.67-74

IX. Türkiye Denizlerinden Toplanan Bazı Süngerlerin Metanolik Ekstraktlarının Kimyasal Analizlerle Değerlendirilmesi

Aksu A., Ersoy N., Taşkın Ö. S., Balkis N.

TÜRKİYE DENİZLERİ BAKTERİLERİNİN BİYOTEKNOLOJİK KULLANIMI, İstanbul, Turkey, 20 October 2016, pp.33-40

X. Süngerlerin Kimyasal Profillerinin Endüstriyel Potansiyelleri

Ersoy N., Aksu A., Taşkın Ö. S., Balkis N.

TÜRKİYE DENİZLERİ BAKTERİLERİNİN BİYOTEKNOLOJİK KULLANIMI, İstanbul, Turkey, 20 October 2016, pp.75-87

XI. Visible Light-Induced Atom Transfer Radical Polymerization for Macromolecular Syntheses

Yağcı Y., Tasdelen M. A., Kiskan B., Ciftci M., Dadashi-Silab S., Taskin O. S., Yilmaz G.

American-Chemical-Society Symposium on Controlled Radical Polymerization, San-Francisco, Costa Rica, 10 - 14 August 2014, vol.1187, pp.145-148

Supported Projects

AKSU A., TAŞKIN Ö. S., ÇAĞLAR N., Project Supported by Higher Education Institutions, Yeni Nesil Tamamen Yerli HPLC-C18 Kolonlarının Dolumu ve Yeni Metot Geliştirilmesi, 2017 - 2018

Metrics

Publication: 58

Citation (WoS): 630

Citation (Scopus): 647

H-Index (WoS): 15

H-Index (Scopus): 16

Non Academic Experience

ENWAIR Enerji Teknolojileri A.Ş.

University of California Berkeley-Lawrence Berkeley National Laboratory