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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2007 - 2014
Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), Turkey 2003 - 2007
Undergraduate, Gazi University, Fen Fakültesi, Kimya Bölümü, Turkey 1999 - 2003

Dissertations

Doctorate, Yeni nesil iyonik sıvıların sentezi, karakterizasyonu, çözücü ve reaktif özelliklerinin incelenmesi, Gazi Üniversitesi, Kimya (Dr), 2014
Postgraduate, Bazı antrakinon boyar maddelerinin sentezlenmesi, Gazi Üniversitesi, Kimya (Yl) (Tezli), 2006

Research Areas

Organic Chemistry

Academic Titles / Tasks

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 2013 - Continues
Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2005 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Microplastics & organics - a comparative study of sorption of triclosan and malachite green onto polyethylene**
   Ciftci G., Turkeli U. D., Ozen E. Y., Ozdemir M., SANİN F. D., İMAMOĞLU İ.
   WATER SCIENCE AND TECHNOLOGY, vol.87, no.5, pp.1072-1081, 2023 (SCI-Expanded)
II. **The association of like-charged ions in tunable protic pyrazolium salts**

Canbulat Özdemir M., AKTAN E., Şahin O.
Journal of Molecular Structure, vol.1242, 2021 (SCI-Expanded)

III. **Tunable aryl alkyl pyrazolium tetrafluoroborate ionic liquids/salts: synthesis, characterization, and applications for removal of methyl orange from aqueous solution**
OZDEMiR M.
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.6, pp.1988-2025, 2021 (SCI-Expanded)

IV. **Removal of methylene blue by new tunable aryl/alkyl ionic liquids/salts (TAAILs) from aqueous solution**
Ozdemir M.
SEPARATION SCIENCE AND TECHNOLOGY, vol.55, no.18, pp.3299-3306, 2020 (SCI-Expanded)

V. **1-Aryl-3,5-dimethylpyrazolium based tunable protic ionic liquids (TPILs)**
ÖZDEMİR M., Ozgun B., AKTAN E.
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VI. **Tunable aryl alkyl ionic liquids (TAAILs) based on 1-aryl-3,5-dimethy1-1H-pyrazoles**
ÖZDEMİR M., Ozgun B.
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VII. **Phenyl/alkyl-substituted-3,5-dimethylpyrazolium ionic liquids**
Ozdemir M., Ozgun B.
JOURNAL OF MOLECULAR LIQUIDS, vol.200, pp.129-135, 2014 (SCI-Expanded)

VIII. **Economic synthesis of quinaldinium fluorochromate(VI), (QnFC), and solvent-free periodic acid oxidation of alcohols catalyzed by QnFC**
Canbulat Ozdemir M., Ozgun H. B.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.1, pp.63-69, 2014 (SCI-Expanded)

IX. **3,5-Dimethylpyrazolium Chlorochromate(VI): An Efficient Reagent for Solvent-Free Oxidation of Organic Substrates**
Özdemir M., Özgün B.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.42, no.5, pp.634-637, 2012 (SCI-Expanded)

X. **Synthesis of some novel derivatives of 2,6-diaminoanthraquinone dyes**
Yildirir Y., Canbolat M., Disli A., Çolak N.
Asian Journal of Chemistry, vol.20, no.8, pp.6411-6416, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. **Quinaldinium Chlorochromate(VI), (QnCC) Catalyzed Oxidation of Alcohols with Periodic Acid Under Solvent-Free Conditions and Microwave Irradition**
ÖZDEMİR M.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.679-690, 2018 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **Interactions of organic contaminants with UV-aged PE type microplastics: experimental and LSER model approach**
ÖZDEMİR M., Hatinoğlu D., Özen E. Y., İMAMOĞLU İ.
5th International Environmental Chemistry Congress (EnviroChem), Antalya, Turkey, 30 October 2023, pp.60

II. **Mikro atıklar ve mikro kirleticiler: Polietilen mikroplastiklerin UV ile yaşlandırılması ve çeşitli organik kirleticiler ile etkileşimlerinin incelenmesi**
Türkeli Ü. D., Tapan K., Uygur M., ÖZDEMİR M., İMAMOĞLU İ.
11. Ulusal Katı Atık Yönetimi Kongresi, Ardahan, Turkey, 18 October 2023

III. **POLİETİLENİN ATIKSU ARITMA TESİSLERİNE ETKİLERİ VE BİYOLOJİK YAŞLANMASI**
Dassouki Dit Tahan M., Zaineh L., ÖZDEMİR M., İMAMOĞLU İ., SANİN F. D.
11. Ulusal Katı Atık Kongresi, Ardahan, Turkey, 18 October 2023

IV. **Tetrachloroethane Sorption onto Pristine and Aged Polyethylene Type Microplastics**
Çiftçi G., Çalışkan R., ÖZDEMİR M., İMAMOĞLU İ.
DIOXIN 2023, Maastricht, Netherlands, 10 September 2023, pp.421

V. **Interaction of an ionizable halogenated organic with high and low density polyethylene**
Adan A., ÖZDEMİR M., SANİN F. D., İMAMOĞLU İ.
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VI. **Bio-aging of Polyethylene And Its Impact on Sorption of Organic Contaminants**
Dassouki Dit Tahan M., ÖZDEMİR M., SANİN F. D., İMAMOĞLU İ.
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VII. **TRICLOSAN SORBS HIGHLY ON MICROPLASTICS**
Özen E. Y., Türkeli Ü. D., Çiftçi G., ÖZDEMİR M., SANİN F. D., İMAMOĞLU İ.
6th EurAsia Waste Management Symposium, İstanbul, Turkey, 24 - 26 October 2022

VIII. **A Comparative Sorption Study for Phenol and Trichlorophenol onto Polyethylene Type Microplastics**
Adan A., Koçaş B., ÖZDEMİR M., SANİN F. D., İMAMOĞLU İ.
6th EURASIA Waste Management Symposium, 24 October 2022

IX. **Microplastics & Organics – A comparative study of sorption of triclosan & malachite green onto polyethylene**
Çiftçi G., Türkeli Ü. D., Özen E. Y., ÖZDEMİR M., SANİN F. D., İMAMOĞLU İ.
IWA World Water Congress, Kopenhag, Denmark, 11 - 15 September 2022

X. **Synthesis of new pyrazolium based tunable aryl alkyl ionic liquids and their use in removal ofmethylene blue from aqueous solution**
ÖZDEMİR M.
2nd International Eurasian Conference on Biological and Chemical Sciences(EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019

XI. **Effects of para-Substitution and Alkyl Chain Length on the Melting Points of Tunable Aryl Alkyl Pyrazolium Hexafluorophosphate Ionic Liquids**
ÖZDEMİR M.
International Euroasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018, pp.29

XII. **Pyrazolium based Ionic Liquids: Crystal Structures and Theoretical Calculations**
ÖZDEMİR M., AKTAN E., ŞAHİN E.
International Euroasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018, pp.1357

XIII. **1-aryl-2-alkyl-3,5-dimethylpyrazolium based tunable aryl alkyl ionic liquids**
ÖZDEMİR M.
1st International Conference on Innovations in Natural Science and Engineering ICINSE 2018, 3 January - 06 February 2018

XIV. **Crystal Structure and Theoretical Calculation of a Promising 'xxGree'xx Solvent**
AKTAN E., ÖZDEMİR M., ŞAHİN E., Özgün B.
Ecology 2017, Kayseri, Turkey, 11 - 13 May 2017

XV. **Synthesis of new protic 1-(arylsubstituted)-3,5 -dimethylpyrazolium salts**
ÖZDEMİR M., Özgün B.
28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016

XVI. **Aril alkil 3 5 dimetilpirazolyum Tetrafloroborat ve Heksaflorofosfat İyonik Sıvılarının Sentezi ve Karakterizasyonu**
ÖZDEMİR M., ÖZGÜN B.
2. Ulusal Organik Kimya Kongresi, Turkey, 24 - 26 September 2014

XVII. **Aril Alkil Pirazolyum İyonik Sıvılarının Sentezi ve Karakterizasyonu**
ÖZDEMİR M., ÖZGÜN B.

25. Ulusal Kimya Kongresi, Turkey, 27 June - 02 July 2011, pp.221

XVIII. **Assesment of trace metal contamination of Ankara watercourse and drinking water springs in Ayaş**
Özgün B., ÖZDEMİR M., Çelik M. E.
4th International Symposium on Trace Elements and Minerals in Medicine and Biology, 9 - 12 June 2010, pp.9

XIX. **Çözücüsüz Ortamda ve Mikrodalga Işıma Altında Periyodik Asit ile Alkollerin Kinaldinyum Florokromat Katalizli Yükseltgenmesi**
ÖZDEMİR M., ÖZGÜN B.
XXIII. Ulusal Kimya Kongresi, Turkey, 16 - 20 June 2009, pp.38

XX. **Alkollerin Periyodik asit ile Kinaldinyum Klorokromat KatalizlenmişYükseltgenmesi**
ÖZDEMİR M., ÖZGÜN B.
XXII. Ulusal Kimya Kongresi, Turkey, 6 - 10 October 2008, pp.124

XXI. **3 5 Dimetilpirazolyum Klorokromat ile Çeşitli Alkollerin Yükseltgenmesi ve Bazı Oksimlerin Deoksimlenmesi**
ÖZDEMİR M., ÖZGÜN B.
XXI. Ulusal Kimya Kongresi, Turkey, 23 - 27 August 2007

XXII. **Bazı Antrakinon Türü Boyar Maddelerin Sentezi**
YILDIRIR Y., ÖZDEMİR M.
XX. Ulusal Kimya Kongresi, Turkey, 4 - 08 September 2006, pp.147

Supported Projects

Özgün H. B., Özdemir M., Project Supported by Higher Education Institutions, Bazı Protik İyonik Sıvılarının Sentezi Karakterizasyonu ve Özelliklerinin Araştırılması, 2012 - 2015
Özgün H. B., Özdemir M., Project Supported by Higher Education Institutions, Yeni Nesil İyonik Sıvıların Sentezi Karakterizasyonu Çözücü ve Reaktif Özelliklerinin İncelenmesi, 2010 - 2012
Özgün H. B., Özdemir M., Project Supported by Higher Education Institutions, Atık Sularda ve İçme Suyunda Klorlanmış Pestisit ve Eser Elementlerin Kromatografik ve Spektrometrik Yöntemlerle Tayini, 2006 - 2009

Scientific Refereeing

RESEARCH ON CHEMICAL INTERMEDIATES, Journal Indexed in SCI-E, May 2023
JOURNAL OF MOLECULAR LIQUIDS, Journal Indexed in SCI-E, September 2019
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, Journal Indexed in SCI-E, April 2019
FRONTIERS IN CHEMISTRY, Journal Indexed in SCI-E, March 2019
BULGARIAN CHEMICAL COMMUNICATIONS, Other Indexed Journal, August 2014

Metrics

Publication: 33
Citation (WoS): 33
Citation (Scopus): 38
H-Index (WoS): 3
H-Index (Scopus): 3