

Prof. MURAT TORUN

Personal Information

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International Researcher IDs

ORCID: 0000-0001-8466-5752

Publons / Web Of Science ResearcherID: G-9290-2013

ScopusID: 8630391200

Yoksis Researcher ID: 122109

Education Information

Doctorate, Hacettepe University, Fen Bilimleri, Kimya, Turkey 2004 - 2008

Postgraduate, Hacettepe University, Fen Bilimleri, Kimya, Turkey 2000 - 2004

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya, Turkey 1996 - 2000

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Chemistry, Physical Chemistry, Characterization of Polymers, Polymeric Adsorbents, Polymeric Films, Spectroscopy, Textile Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2014 - Continues

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2001 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Adsorption of rhodamine B by Pleurotus eryngii: growth, modification, characterization, adsorption isotherms, kinetics and thermodynamics**
TORUN M., ARACAGÖK Y. D.
Biomass Conversion and Biorefinery, 2023 (SCI-Expanded)
- II. **Degradation of N-Nitrosodiethylamine in aqueous solution by gamma-irradiation**
Mehrnia M., TORUN M., ŞOLPAN ÖZBAY D.
ENVIRONMENTAL TECHNOLOGY, vol.42, no.26, pp.4201-4207, 2021 (SCI-Expanded)

- III. **Fungal biosorption of cadmium(II) onto *Fennelia nivea* from aqueous solution: equilibrium, thermodynamics, and kinetics**
ARACAGÖK Y. D., Ogun E., TORUN M., Akyil H., CİHANGİR N., Sanin S. L.
DESALINATION AND WATER TREATMENT, vol.222, pp.386-393, 2021 (SCI-Expanded)
- IV. **The effect of ozonation on the degradation of carbaryl in aqueous solution**
ŞOLPAN ÖZBAY D., Ibrahim K. E. A., TORUN M., Mehrnia M.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART B-PESTICIDES FOOD CONTAMINANTS AND AGRICULTURAL WASTES, vol.55, no.10, pp.929-939, 2020 (SCI-Expanded)
- V. **Extraction, characterization and comparison of chitins from large bodied four Coleoptera and Orthoptera species**
Kabalak M., Aracagök Y. D., Torun M.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.145, pp.402-409, 2020 (SCI-Expanded)
- VI. **Synthesis of poly (acrylamide-co-aconitic acid) adsorbents by gamma-irradiation, characterization, adsorption studies and application for cationic dyes removal**
Mehrnia M., Bal O., TORUN M., ŞOLPAN ÖZBAY D.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.56, no.1, pp.63-68, 2019 (SCI-Expanded)
- VII. **Analytical studies on degradation mechanism of herbicide 4-chlorophenoxyacetic acid in water by gamma/H₂O₂ and gamma/ozone processes**
TORUN M., ŞOLPAN ÖZBAY D.
ENVIRONMENTAL TECHNOLOGY, vol.37, no.19, pp.2494-2507, 2016 (SCI-Expanded)
- VIII. **Radiation induced degradation of xanthan gum in the solid state**
ŞEN M., Hayrabolulu H., Taskin P., TORUN M., DEMETER M., CUTRUBINIS M., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.124, pp.225-229, 2016 (SCI-Expanded)
- IX. **The Removal of Cationic Dyes from Aqueous Solutions by Using Poly(N-Vinylpyrrolidone-co-Methacrylic Acid) Hydrogel Adsorbents: Effects of pH and Composition on Adsorption**
TORUN M., ŞOLPAN ÖZBAY D.
FIBERS AND POLYMERS, vol.16, no.4, pp.735-743, 2015 (SCI-Expanded)
- X. **Mineralization of paracetamol in aqueous solution with advanced oxidation processes**
TORUN M., Gültekin Ö., Şolpan D., Güven O.
Environmental Technology (United Kingdom), vol.36, no.8, pp.970-982, 2015 (SCI-Expanded)
- XI. **Caffeine degradation in water by gamma irradiation, zonation and zonation/gamma irradiation**
TORUN M., Abbasova D., ŞOLPAN ÖZBAY D., Guven O.
NUKLEONIKA, vol.59, no.1, pp.25-35, 2014 (SCI-Expanded)
- XII. **Analytical and Toxicological Studies of Decomposition of Insecticide Parathion after Gamma-Irradiation and Ozonation**
Bojanowska-Czajka A., TORUN M., Kciuk G., Wachowicz M., ŞOLPAN ÖZBAY D., Guven O., Bobrowski K., Trojanowicz M.
JOURNAL OF AOAC INTERNATIONAL, vol.95, no.5, pp.1378-1385, 2012 (SCI-Expanded)
- XIII. **The removal of chlorinated organic herbicide in water by gamma-irradiation**
ŞOLPAN ÖZBAY D., TORUN M.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.293, no.1, pp.21-38, 2012 (SCI-Expanded)
- XIV. **Treatment of Water Contaminated with Chlorinated Organic Herbicide 2,4-D by an Ozone/Gamma Process**
TORUN M., ŞOLPAN ÖZBAY D., Guven O.
OZONE-SCIENCE & ENGINEERING, vol.33, no.1, pp.50-65, 2011 (SCI-Expanded)
- XV. **Comparison of pre-irradiation and mutual grafting of 2-chloroacrylonitrile on cellulose by gamma-irradiation**
ŞOLPAN ÖZBAY D., TORUN M., Guven O.
RADIATION PHYSICS AND CHEMISTRY, vol.79, no.3, pp.250-254, 2010 (SCI-Expanded)
- XVI. **Radiation Synthesis of Poly(N-Vinylpyrrolidone-co-Methacrylic Acid) Hydrogels and Their Usability**

- in Uranyl Ion Adsorption**
ŞOLPAN ÖZBAY D., TORUN M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, no.1, pp.543-550, 2009 (SCI-Expanded)
- XVII. **The usability of (sodium alginate/acrylamide) semi-interpenetrating polymer networks on removal of some textile dyes**
ŞOLPAN ÖZBAY D., TORUN M., Gueven G.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.108, no.6, pp.3787-3795, 2008 (SCI-Expanded)
- XVIII. **Removal of cationic dyes by poly(acrylamide-co-acrylic acid) hydrogels in aqueous solutions**
ŞOLPAN ÖZBAY D., Duran S., TORUN M.
RADIATION PHYSICS AND CHEMISTRY, vol.77, no.4, pp.447-452, 2008 (SCI-Expanded)
- XIX. **Effect of gamma-irradiation on aqueous solutions of Apollofix dyes**
Solpan D., Torun M., Guven G.
NUKLEONIKA, vol.52, no.3, pp.109-113, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Degradation Mechanism for Dimethyl Phthalate (DMP) in Aqueous Solution by Using Analytical Methods**
Mehrnia M., TORUN M., ŞOLPAN ÖZBAY D.
ALKÜ Fen Bilimleri Dergisi, pp.125-141, 2019 (Peer-Reviewed Journal)
- II. **Kinetic and Equilibrium Studies of Adsorption of Reactive Red 120 on Chitin**
Torun M., Aracagök Y. D., Kabalak M.
HITTITE JOURNAL OF SCIENCE ENGINEERING, vol.5, 2018 (Peer-Reviewed Journal)
- III. **Removal of dissolved organic pollutants from water by gamma-irradiation based advanced oxidation processes**
TORUN M., ŞOLPAN ÖZBAY D., GÜVEN O.
Hacettepe Journal of Biology and Chemistry, vol.42, no.1, pp.115-127, 2014 (Peer-Reviewed Journal)
- IV. **Application of ionizing radiation in decomposition of selected organic pollutants in waters**
Trojawonicz M., BojanowskaCzajka A., Kciuk G., Bobrowski K., Gumiela M., Koc A., Jalecz Jawecki G., TORUN M., ŞOLPAN ÖZBAY D.
European water, vol.39, pp.15-26, 2012 (Peer-Reviewed Journal)
- V. **Adsorption of Some Dyes on Cationic Poly N N Dimethyl Amino Ethyl methacrylate Hydrogels**
ŞOLPAN ÖZBAY D., ŞEN M., Kölge Z., TORUN M., Güven O.
Hacettepe Journal of Biology and Chemistry, 2009 (Peer-Reviewed Journal)

Books

- I. **Radiation pretreatment of biomass**
TORUN M.
in: Applications of Ionizing Radiation in Materials Processing, Yongxia Sun, Andrzej G. Chmielewski, Editor, Institute of Nuclear Chemistry and Technology, Varšova, pp.447-460, 2017

Papers Published in Refereed Scientific Meetings

- I. **Radiolytic degradation of carbaryl in aqueous solution by gamma-irradiation/H₂O₂ process**
İbrahim K., Elbashir A. A., MEHRNIA M., TORUN M., AHMED M., ŞOLPAN ÖZBAY D.
XI. International Conference on Nuclear Strucrure Properties, 12 - 14 September 2018
- II. **Investigation of degradation mechanism for dimethyl phthalate (DMP) in aqueous solution by using**

amalytical methods

MEHRNIA M., TORUN M., ŞOLPAN ÖZBAY D.

XI. International Conference on Nuclear Strucrure Properties, 12 - 14 September 2018

III. Degradation of Imipramine by gamma-irradiation

TORUN M., MEHRNIA M., ŞOLPAN ÖZBAY D.

XI. International Conference on Nuclear Strucrure Properties, 12 - 14 September 2018

IV. Degradation of N-nitrosodethylamine in aqueous solution by gamma-irradiation

ŞOLPAN ÖZBAY D., TORUN M., MEHRNIA M.

XI. International Conference on Nuclear Strucrure Properties, 12 - 14 September 2018

V. Antimicrobial properties of PE based packaging films prepared by radiation-induced grafting and modification

ŞOLPAN ÖZBAY D., BAL O., TORUN M., GÜVEN O.

The 13th International Symposium on Ionizing Radiation Polymers, 26 - 31 August 2018

VI. Removal of Uranyl Ions from water by Sodium Alginate-Acrylamide Semi-Interpenetrating Networks

TORUN M., DEMİR S., ŞOLPAN ÖZBAY D.

The 13th International Symposium on Ionizing Radiation Polymers, 26 - 31 August 2018

VII. Adsorption of Reactive Red 120 on Chitin

ARACAGÖK Y. D., TORUN M., KABALAK M.

7th INTERNATIONAL CONGRESS on MOLECULAR BIOLOGY and BIOTECHNOLOGY, 25 - 27 April 2018

VIII. Extraction and Physicochemical Properties of Chitins from Four Different Insect Species

KABALAK M., ARACAGÖK Y. D., TORUN M.

The 3rd International Symposium on EuroAsian Biodiversity, 5 - 08 July 2017

IX. N NİTROZODİFENİLAMİNİN İŞİNLAMA SONUCU OLUŞAN ARAÜRÜNLERİNDEN KROMATOGRAFİK OLARAK AYRILMASI İÇİN YÖNTEM GELİŞTİRİLMESİ

Demir S., Mehrnia M., TORUN M., ŞOLPAN ÖZBAY D.

XI. ULUSAL NÜKLEER BİLİMLER BİLİMLER TEKNOLOJİLERİ KONGRESİ, Turkey, 12 - 14 October 2016

X. Endokrin Bozucu Kimyasalların Sulu Çözeltilerden Gama Işınları ile Uzaklaştırılması

Mehrnia M., Demir S., TORUN M., ŞOLPAN ÖZBAY D.

XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Turkey, 12 - 14 October 2016

XI. Synthesis characterization and adsorption studies of cationic dye adsorbent

Mehrnia M., Bal O., TORUN M., ŞOLPAN ÖZBAY D.

International Turkic World Conference on Chemical Sciences and Technologies, 27 - 01 October 2015

XII. Optimum Conditions for Chromatographic Separation of N Nitrosodiphenylamine from its Intermediates

Demir S., TORUN M., ŞOLPAN ÖZBAY D.

International Turkic World Conference on Chemical Sciences and Technologies, 27 October - 01 November 2015

XIII. Removal of endocrine disrupting chemicals in aqueous Solutions by gamma irradiation

Mehrnia M., Demir S., TORUN M., ŞOLPAN ÖZBAY D.

International Turkic World Conference on Chemical Sciences and Technologies, 27 - 01 October 2015

XIV. RADIATION INDUCED DEGRADATION OF XHANTAN GUM IN SOLID STATE AND AQUEOUS SOLUTIONS

ŞEN M., Hayrabolulu H., Taşkın P., TORUN M., Demeter M., Cutrubinis M., Güven O.

13th Tihany Symposium on Radiation Chemistry, 29 August - 03 September 2015

Supported Projects

TORUN M., Dedeoğlu S., Project Supported by Higher Education Institutions, Trimetazidinin Kontrollü Salımı İçin Kriyoje Membranlarının Sentezi ve Karakterizasyonu, 2021 - 2022

TORUN M., ARACAGÖK Y. D., Project Supported by Higher Education Institutions, Kafein baskılı 2-hidroksietil metakrilat/Akrilamid (HEMA/AAm) kriyojellerinin UV-ışınları destekli sentezi, karakterizasyonu ve uygulama alanlarında kullanılması, 2019 - 2022

TORUN M., Project Supported by Higher Education Institutions, Diklorprop baskılı akrilik asit/2-hidroksi etil metakrilat kriyojeli hazırlanması ve karakterizasyonu, 2018 - 2020

ARACAGÖK Y. D., TORUN M., Project Supported by Higher Education Institutions, Modifiye edilmiş ölü fungal biyokütlenin Rhodamine B gideriminde kullanılmasının incelenmesi, 2017 - 2019

TORUN M., MEHRNİA M., DEMİR S., Project Supported by Higher Education Institutions, Suda Bulunan İmipraminin Gama Işınları ve Ozonlama ile Giderilmesi, 2015 - 2018

TORUN M., Project Supported by Higher Education Institutions, Radyasyonla Hazırlanmış Akrilik Asit Esaslı Hidrojellerin Karakterizasyonu ve Magenta ve SafraninO Adsorpsiyonunun İncelenmesi, 2016 - 2017

TORUN M., Project Supported by Higher Education Institutions, Sudaki parasetamolün ileri oksidasyon yöntemleri ile alınması, 2014 - 2015

Metrics

Publication: 40

Citation (WoS): 157

Citation (Scopus): 62

H-Index (WoS): 7

H-Index (Scopus): 4

Non Academic Experience

Hacettepe Üniversitesi, Arş. Gör. Dr.

Hacettepe Üniversitesi, Arş. Gör.