

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., Hayrabolu 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, ozonation and ozonation/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., Gumiel 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 & Book Chapters

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, Varşova, pp.447-460, 2017

Refereed Congress / Symposium Publications in Proceedings

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 Structure Properties, 12 - 14 September 2018

II. **Investigation of degradation mechanism for dimethyl phthalate (DMP) in aqueous solution by using**

analytical methods

MEHRNIA M., TORUN M., ŞOLPAN ÖZBAY D.

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

- III. **Degradation of Imipramine by gamma-irradiation**
TORUN M., MEHRNIA M., ŞOLPAN ÖZBAY D.
XI. International Conference on Nuclear Structure Properties, 12 - 14 September 2018
- IV. **Degradation of N-nitrosodiethylamine in aqueous solution by gamma-irradiation**
ŞOLPAN ÖZBAY D., TORUN M., MEHRNIA M.
XI. International Conference on Nuclear Structure 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 IŞINLAMA SONUCU OLUŞAN ARAÜRÜNLERİNDEN KROMATOĞRAFİK 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., 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., MEHRNIA 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): 56

H-Index (WoS): 7

H-Index (Scopus): 4

Non Academic Experience

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