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Education Information

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

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

Undergraduate, Hacettepe Üniversitesi, 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 Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2014 - Continues

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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.
DESALINATION AND WATER TREATMENT, vol.222, pp.386-393, 2021 (Journal Indexed in SCI)
- II. **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, 2020 (Journal Indexed in SCI)
- III. **Degradation of N-Nitrosodiethylamine in aqueous solution by gamma-irradiation**
Mehrnia M., TORUN M., ŞOLPAN ÖZBAY D.
ENVIRONMENTAL TECHNOLOGY, 2020 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)

- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)

XVIII. **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 (Journal Indexed in SCI)

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 (Refereed Journals of Other Institutions)
- 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 (Other Refereed National Journals)
- 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 (Refereed Journals of Other Institutions)
- IV. **Application of ionizing radiation in decomposition of selected organic pollutants in waters**
Trojawnicz M., BojanowskaCzajka A., Kciuk G., Bobrowski K., Gumieła M., Koc A., Jalecz Jawecki G., TORUN M., ŞOLPAN ÖZBAY D.
European water, vol.39, pp.15-26, 2012 (Refereed Journals of Other Institutions)
- 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 (Refereed Journals of Other Institutions)

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 Intermeidates**

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., Hayrabolu 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

Citations

Total Citations (WOS):140

h-index (WOS):6