

## Prof. Dr. Lokman TORUN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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### Eğitim Bilgileri

Doktora, Purdue Üniversitesi, Fen Fakültesi, Kimya, Türkiye Devam Ediyor

Texas Tech Üniversitesi, Fen Fakültesi, Kimya, Türkiye Devam Ediyor

Atatürk Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye Devam Ediyor

### Araştırma Alanları

Aromatik Bileşikler Kimyası, Heterosiklik Bileşikler Kimyası, Makromoleküller Kimyası, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2017 - Devam Ediyor

### Yönetilen Tezler

Torun L., BAZI KİNOLİNON BİLEŞİKLERİNİN SENTEZİ, SİTOTOKSİK ÖZELLİKLERİNİN İNCELENMESİ VE TRIAZİN ESASLI BAZI MAKROMOLEKÜLER YAPILARIN SENTEZİ VE KARAKTERİZASYONU, Yüksek Lisans, B.Genç(Öğrenci), 2019

Torun L., Triazine-Based New Plastifying Agents, Yüksek Lisans, A.AL(Öğrenci), 2018

Torun L., Synthesis and Characterization of Novel Triptycene Type Photo-Crosslinkers, Yüksek Lisans, Ş.Ateş(Öğrenci), 2009

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- New macromolecular structures based on benzene core, synthesis and characterization**  
Ali M. H., Torun L.  
INDIAN JOURNAL OF CHEMISTRY SECTION B-ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY, cilt.60, sa.3, ss.465-472, 2021 (SCI-Expanded)
- Claisen type Condensation of Methyl Ketones with Carbimidothioates: A New Gateway for the Synthesis of beta-Enaminones**  
Swaroop T. R., Rangappa K. S., TORUN L.  
CHEMISTRYSELECT, cilt.6, sa.2, ss.177-180, 2021 (SCI-Expanded)
- Synthesis and liquid crystalline properties of new triazine-based pi-conjugated macromolecules with**

## chiral side groups

Akkurt N., Al-Jumaili M. H. A., Ocak H., Çakar F., Torun L.

TURKISH JOURNAL OF CHEMISTRY, cilt.44, ss.726-746, 2020 (SCI-Expanded)

- IV. **Silica-supported heterogeneous catalysts-mediated synthesis of chalcones as potent urease inhibitors: in vitro and molecular docking studies**  
Sultan A., Shajahan S., Ahamad T., Alshehri S. M., Sajjad N., Mehr-un-Nisa M., Rehman M. H. U., Torun L., Khalid M., Acevedo R.  
MONATSHFTE FUR CHEMIE, cilt.151, sa.1, ss.123-133, 2020 (SCI-Expanded)
- V. **Acetylene-bridged triazine pi-conjugated structures: synthesis and liquid crystalline properties**  
Akkurt N., Al-Jumaili M. H. A., Bilgin Eran B., Ocak H., Torun L.  
TURKISH JOURNAL OF CHEMISTRY, cilt.43, sa.5, ss.1436-1444, 2019 (SCI-Expanded)
- VI. **Synthesis and thermal properties of difunctional polysulfone telechelics**  
TORUN L.  
POLYMER BULLETIN, cilt.74, sa.10, ss.3923-3938, 2017 (SCI-Expanded)
- VII. **Synthesis and structure-activity relationship studies of 3-biaryl-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters**  
Torun L., Madras B. K., Meltzer P. C.  
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.20, sa.8, ss.2762-2772, 2012 (SCI-Expanded)
- VIII. **Polysulfone/Clay Nanocomposites by in situ Photoinduced Crosslinking Polymerization**  
Dizman C., Ates S., Uyar T., Tasdelen M. A., Torun L., Yağcı Y.  
MACROMOLECULAR MATERIALS AND ENGINEERING, cilt.296, sa.12, ss.1101-1106, 2011 (SCI-Expanded)
- IX. **Photochemically prepared polysulfone/poly(ethylene glycol) amphiphilic networks and their biomolecule adsorption properties**  
Dizman C., Demirkol D. O., Ates S., Torun L., Sakarya S., TİMUR S., Yağcı Y.  
COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.88, sa.1, ss.265-270, 2011 (SCI-Expanded)
- X. **Polysulfone/Metal Nanocomposites by Simultaneous Photoinduced Crosslinking and Redox Reaction**  
Sangermano M., Roppolo I., Camara V. H. A., Dizman C., Ates S., Torun L., Yağcı Y.  
MACROMOLECULAR MATERIALS AND ENGINEERING, cilt.296, sa.9, ss.820-825, 2011 (SCI-Expanded)
- XI. **Polysulfone/Pyrene Membranes: A New Microwell Assay Platform for Bioapplications**  
Karadag M., Yilmaz G., Toiserkani H., Demirkol D. O., Sakarya S., Torun L., TİMUR S., Yağcı Y.  
MACROMOLECULAR BIOSCIENCE, cilt.11, sa.9, ss.1235-1243, 2011 (SCI-Expanded)
- XII. **Polysulfone based amphiphilic graft copolymers by click chemistry as bioinert membranes**  
Yilmaz G., Toiserkani H., Demirkol D. O., Sakarya S., TİMUR S., Torun L., Yağcı Y.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.31, sa.5, ss.1091-1097, 2011 (SCI-Expanded)
- XIII. **Synthesis, characterization and thermally activated curing of polysulfones with benzoxazine end groups**  
Ates S., Dizman C., Aydoğan B., Kiskan B., Torun L., Yağcı Y.  
POLYMER, cilt.52, sa.7, ss.1504-1509, 2011 (SCI-Expanded)
- XIV. **Modification of Polysulfones by Click Chemistry: Amphiphilic Graft Copolymers and Their Protein Adsorption and Cell Adhesion Properties**  
Yilmaz G., Toiserkani H., Demirkol D. O., Sakarya S., TİMUR S., Yağcı Y., Torun L.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, cilt.49, sa.1, ss.110-117, 2011 (SCI-Expanded)
- XV. **Functionalization of Polysulfones by Click Chemistry**  
Toiserkani H., Yilmaz G., Yağcı Y., Torun L.  
MACROMOLECULAR CHEMISTRY AND PHYSICS, cilt.211, sa.22, ss.2389-2395, 2010 (SCI-Expanded)
- XVI. **Utilization of Stille cross coupling protocol for the synthesis of series of biaryl-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl**  
Torun L., Meltzer P. C.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, cilt.240, 2010 (SCI-Expanded)
- XVII. **Synthesis, structure and metal ion binding of di-(1,8-naphtho)-16-crown-4 compounds**

- Torun L., Mueller P., Cao X., Bartsch R. A.  
Arkivoc, cilt.2010, sa.7, ss.138-145, 2010 (SCI-Expanded)
- XVIII. **Synthesis, characterization and photoinduced curing of polysulfones with (meth)acrylate functionalities**  
Dizman C., Ates S., Torun L., Yagci Y.  
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, cilt.6, 2010 (SCI-Expanded)
- XIX. **Synthesis and characterization of triptycene type cross-linker and its use in photoinduced curing applications**  
Ates S., Aydogan B., Torun L., Yağci Y.  
POLYMER, cilt.51, sa.4, ss.825-831, 2010 (SCI-Expanded)
- XX. **Synthesis and Characterization of Polystyrene Possessing Triptycene Units in the Main Chain by Combination of ATRP and Click Chemistry Processes**  
Ates S., Durmaz Y. Y., Torun L., Yağci Y.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.47, sa.8, ss.809-815, 2010 (SCI-Expanded)
- XXI. **The structure activity relationship studies of 3-(biaryl)-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters**  
Torun L., Meltzer P.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, cilt.237, 2009 (SCI-Expanded)
- XXII. **Enhancement to the rate-dependent mechanical behavior of polycarbonate by incorporation of triptycenes**  
Tsui N. T., Yang Y., Mulliken A. D., Torun L., Boyce M. C., Swager T. M., Thomas E. L.  
POLYMER, cilt.49, sa.21, ss.4703-4712, 2008 (SCI-Expanded)
- XXIII. **Molecular barbed wire: Threading and interlocking for the mechanical reinforcement of polymers**  
Tsui N. T., Torun L., Pate B. D., Paraskos A. J., Swager T. M., Thomas E. L.  
ADVANCED FUNCTIONAL MATERIALS, cilt.17, sa.10, ss.1595-1602, 2007 (SCI-Expanded)
- XXIV. **Minimization of internal molecular free volume: A mechanism for the simultaneous enhancement of polymer stiffness, strength, and ductility**  
Tsui N., Paraskos A., Torun L., Swager T., Thomas E.  
MACROMOLECULES, cilt.39, sa.9, ss.3350-3358, 2006 (SCI-Expanded)
- XXV. **Synthesis of 3-(4-heteroaryl-phenyl)-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters**  
Torun L., Liu S., Madras B. K., Meltzer P. C.  
TETRAHEDRON LETTERS, cilt.47, sa.4, ss.599-603, 2006 (SCI-Expanded)
- XXVI. **Side arm participation in lariat ether carboxylate-alkali metal cation complexes in solution**  
Torun L., Robison T. W., Krzykawski J., Purkiss D. W., Bartsch R. A.  
TETRAHEDRON, cilt.61, sa.35, ss.8345-8350, 2005 (SCI-Expanded)
- XXVII. **Intramolecular sensitization within steroids: Excited-state interaction of C-17 alpha and beta carbon-bromine bonds with a C-6 carbonyl group**  
Li W., Torun L., Morrison H.  
CANADIAN JOURNAL OF CHEMISTRY, cilt.81, sa.6, ss.660-668, 2003 (SCI-Expanded)
- XXVIII. **Photooxidation of 2'-deoxyguanosine 5'-monophosphate in aqueous solution**  
Torun L., Morrison H.  
PHOTOCHEMISTRY AND PHOTOBIOLOGY, cilt.77, sa.4, ss.370-375, 2003 (SCI-Expanded)
- XXIX. **Cycloaddition reactions of sodium dinitroxytrioxide (Angeli's salt)**  
Torun L., Mohammad T., Morrison H.  
Tetrahedron Letters, cilt.40, sa.29, ss.5279-5282, 1999 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Six-Armed Structures Based on Benzene Ring, Synthesis and Characterization via Sonogashira**

## Coupling

Al-Jumaili M. H. A., Hamed A. S., Akkurt N., TORUN L.

INDONESIAN JOURNAL OF CHEMISTRY, cilt.20, sa.3, ss.705-715, 2020 (ESCI)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Synthesis and structure activity relationship studies of 3-(biaryl)-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters.**  
TORUN L., Peter M.  
Abstracts of Papers, 239th ACS National Meeting, 21-25 March 2010
- II. **Synthesis, structure and metal ion binding of di-(1,8-naphtho)-16-crown-4 compounds**  
TORUN L., Mueller P., Cao X., Bartsch R. A.  
ACS, Mart 2012
- III. **Synthesis and Thermal Properties of Poly(aryl ether sulfones) Macromonomers**  
TORUN L.  
ACS, August 2012
- IV. **New Aryl Substituted Oxatropenes: Synthesis and Biological Profiles.**  
TORUN L.  
44th IUPAC World Chemistry Congress, 8-15 Ağustos 2013,
- V. **Threading and Interlocking: A Mechanism for the Simultaneous Enhancement of Polymer Stiffness, Strength, and Ductility,**  
TORUN L.  
NanoTR III, 11-14 June 2007,
- VI. **Incorporation of Triptycene Units into Polymers: A Versatile Route to Improve Mechanical and Thermal Properties.**  
TORUN L.  
Baekland 2009 2nd International Symposium on Thermosets. 22-25 November 2009
- VII. **Modification of Polysulfones by Click Chemistry: Amphiphilic Graft Copolymers and Their Protein Adsorption and Cell Adhesion Properties**  
TORUN L., Yilmaz G., Toiserkani H., Odaci D., Sakarya S., Timur S., Yagci Y.  
European Polymer Congress, 25 June 01 July 2011,
- VIII. **Lineer ve Çapraz Bağlı Polimerlere Triptisin Ünitesinin Bağlanması İçin Yeni Yöntemler**  
TORUN L., Ates S., Aydoğan B., Durmaz Y. Y., Yagci Y.  
24th National Chemistry Symposium, 29 June-2 July 2010,
- IX. **Yeni Okzatropenler: Sentezlenmeleri ve Biyolojik Özellikleri,**  
TORUN L.  
2. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, 21-23 Mart 2014.
- X. **Yeni Kokain Antagonislerinin Sentezi ve Yapı Aktivite İlişkilerinin İncelenmesi.**  
TORUN L.  
24th National Chemistry Symposium, 29 June-2 July 2010, .
- XI. **Polysulfone/Clay Nanocomposites by in situ Photoinduced Crosslinking Polymerization**  
Dizman C., Ates S., Uyar T., Taşdelen M. A., TORUN L., Yagci Y.  
APME 2011 - IUPAC 9th International Conference on Advanced Polymers via Macromolecular Engineering, 05-08 September 2011,
- XII. **Meth(akrilat) Fonksiyonlu Polisüfonların Sentezi, Karakterizasyonu ve Işık ile Kürleşmesi**  
Dizman C., Ates S., TORUN L., Yagci Y.  
24th National Chemistry Symposium, 29 June-2 July 2010,
- XIII. **Functional Polysulfones: Synthesis, Characterization and Properties of New Poly(aryl ether sulfones),**  
TORUN L., Yagci Y.

ACS, August 2012

**XIV. Synthesis and Characterization of Triptycene Type Cross-linker and Its Use in Photoinduced Curing Applications**

Ates S., Aydogan B., TORUN L., Yagci Y.

Baekeland 2009 2nd International Symposium on Thermosets. 22-25 November 2009,

**XV. Laser-Induced Surface Modification of Organic Polymers,**

TORUN L.

Advanced Laser Technologies, 26 September-1 October 2009,

**XVI. Benzoksazin fonksiyonlu Polisülfonlar**

Ates S., Dizman C., TORUN L., Yagci Y.

24th National Chemistry Symposium, 29 June-2 July 2010,

**XVII. Synthesis and Characterization of Polymers With Triptycene Units By Photopolymerization and Polystyrene Possessing Triptycene Unit In The Main Chain By Combination of ATRP and Click Chemistry Processes**

TORUN L., Ates S., Aydogan B., Yagci Y.

NanoTR IV, 15-18 June 2010 ,

## Diğer Yayınlar

**I. Studies in Organic and Bioorganic Photochemistry**

TORUN L.

Diğer, 2001

**II. New Crown Ether Compounds and Their Alkali Metal Ion Complexation**

TORUN L.

Diğer, 1994

**III. Nafto[b]siklopropanın Sentezi ve Reaktivitesi**

TORUN L.

Diğer, 1986

## Desteklenen Projeler

TORUN L., KURUCA D. S., DANIŞMAN KALINDEMİR TAŞ F., Kotan H., Yükseköğretim Kurumları Destekli Proje, beta-Enaminonların sentezi için yeni bir metod, 2020 - 2021

TORUN L., AKKURT N., Yükseköğretim Kurumları Destekli Proje, Triazin Esaslı Yapılar: Yeni Sıvı Kristallerin Sentezi, Karakterizasyonu ve Sıvı Kristal Özelliklerinin İncelenmesi, 2015 - 2020

TORUN L., OCAK H., ÇAKMAKCI M., Yükseköğretim Kurumları Destekli Proje, Yeni Polieter-Sülfon Membran Malzemelerinin Geliştirilmesi ve Su Geçirgenlik Performanslarının Araştırılması, 2016 - 2018

TORUN L., BİLGİN ERAN B., TÜBİTAK Projesi, Triazin Esaslı Yeni Sıvı Kristaller: Sentezi, Karakterizasyonu ve Sıvı Kristal Özelliklerinin Araştırılması, 2015 - 2017

TORUN L., Diğer Uluslararası Fon Programları, Triazin Makromoleküllerin Sentezi, Karakterizasyonu ve Fiziksel Özelliklerinin İncelenmesi, 2014 - 2017

TORUN L., TÜBİTAK Projesi, Polisülfonların Üretilmesi ve Uygulamaları, Devam Ediyor

TORUN L., Diğer Resmi Kurumlarca Desteklenen Proje, İleri Teknoloji Tesisat Malzemelerinin Geliştirilmesi ve Uygulamaları, Devam Ediyor

TORUN L., Diğer Uluslararası Fon Programları, Enerji Absorblama ve Darbe dayanımı artırılmış Polimerik Malzemeler, Devam Ediyor

TORUN L., Diğer Uluslararası Fon Programları, Synthesis and Structure Activity Relationship Studies of 3-Biaryl-8-oxabicyclo[3.2.1]octane-2-carboxylic Acid Methyl Esters, Devam Ediyor

## **Etkinlik Organizasyonlarındaki Görevler**

Saraç Özkan A., San N., Şakar Daşdan D., Akyol E., Altıkatoğlu Yapaöz M., Uğraşkan V., Bilgi M., Işık B., Cankurtaran Ö., Derman S., et al., 31. Ulusal Kimya Kongresi, Bilimsel Kongre / Sempozyum Organizasyonu, İstanbul, Türkiye, Eylül 2019

## **Metrikler**

Yayın: 50

Atıf (WoS): 543

Atıf (Scopus): 560

H-İndeks (WoS): 13

H-İndeks (Scopus): 13

## **Akademi Dışı Deneyim**

TÜBİTAK MAM KİMYA ENSTİTÜSÜ

TÜBİTAK MAM Kimya Esntitüsü

TÜBİTAK MAM Malzeme Esntitüsü

MIT, USA

Organix Inc.

Purdue University, USA

Texas Tech University, USA

Yüzüncü Yıl Üniversitesi

ATATÜRK Üniversitesi