

## Prof. Lokman TORUN

### Personal Information

**Email:** ltorun@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/ltorun>

**Address:** Yıldız Teknik Üniversitesi Fen Edebiyat Fakültesi Kimya Bölümü, 34220 Esenler İstanbul

### Education Information

Doctorate, Purdue Üniversitesi, Fen Fakültesi, Kimya, Turkey Continues

Texas Tech Üniversitesi, Fen Fakültesi, Kimya, Turkey Continues

Atatürk Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Turkey Continues

### Research Areas

Chemistry of Aromatic Compounds, Chemistry of Heterocyclic Compounds, Chemistry of Macromolecules, Natural Sciences

### Advising Theses

Torun L., BAZI KİNOLİNON BİLEŞİKLERİNİN SENTEZİ, SİTOTOKSİK ÖZELLİKLERİNİN İNCELENMESİ VE TRİAZİN ESASLI BAZI MAKROMOLEKÜLER YAPILARIN SENTEZİ VE KARAKTERİZASYONU, Postgraduate, B.Genç(Student), 2019

Torun L., Triazine-Based New Plastifying Agents, Postgraduate, A.AL(Student), 2018

Torun L., Synthesis and Characterization of Novel Triptycene Type Photo-Crosslinkers, Postgraduate, Ş.Ateş(Student), 2009

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

- I. **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, vol.60, no.3, pp.465-472, 2021 (Journal Indexed in SCI)
- II. **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, vol.6, no.2, pp.177-180, 2021 (Journal Indexed in SCI)
- III. **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, vol.44, pp.726-746, 2020 (Journal Indexed in SCI)
- 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.  
MONATSCHEFTE FÜR CHEMIE, vol.151, no.1, pp.123-133, 2020 (Journal Indexed in SCI)

- V. **Acetylene-bridged triazine pi-conjugated structures: synthesis and liquid crystalline properties**  
Akkurt N., Al-Jumali M. H. A., Bilgin Eran B., Ocak H., Torun L.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.5, pp.1436-1444, 2019 (Journal Indexed in SCI)
- VI. **Synthesis and thermal properties of difunctional polysulfone telechelics**  
TORUN L.  
POLYMER BULLETIN, vol.74, no.10, pp.3923-3938, 2017 (Journal Indexed in SCI)
- 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, vol.20, no.8, pp.2762-2772, 2012 (Journal Indexed in SCI)
- 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, vol.296, no.12, pp.1101-1106, 2011 (Journal Indexed in SCI)
- 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, vol.88, no.1, pp.265-270, 2011 (Journal Indexed in SCI)
- 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, vol.296, no.9, pp.820-825, 2011 (Journal Indexed in SCI)
- 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, vol.11, no.9, pp.1235-1243, 2011 (Journal Indexed in SCI)
- 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, vol.31, no.5, pp.1091-1097, 2011 (Journal Indexed in SCI)
- XIII. **Synthesis, characterization and thermally activated curing of polysulfones with benzoxazine end groups**  
Ates S., Dizman C., Aydogan B., Kiskan B., Torun L., Yağcı Y.  
POLYMER, vol.52, no.7, pp.1504-1509, 2011 (Journal Indexed in SCI)
- 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, vol.49, no.1, pp.110-117, 2011 (Journal Indexed in SCI)
- XV. **Functionalization of Polysulfones by Click Chemistry**  
Toiserkani H., Yilmaz G., Yağcı Y., Torun L.  
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.211, no.22, pp.2389-2395, 2010 (Journal Indexed in SCI)
- 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, vol.240, 2010 (Journal Indexed in SCI)
- 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, vol.2010, no.7, pp.138-145, 2010 (Journal Indexed in SCI)
- 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, vol.6, 2010 (Journal Indexed in SCI)
- XIX. **Synthesis and characterization of triptycene type cross-linker and its use in photoinduced curing**

## applications

Ates S., Aydogan B., Torun L., Yağcı Y.

POLYMER, vol.51, no.4, pp.825-831, 2010 (Journal Indexed in SCI)

- 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., Yağcı Y.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.47, no.8, pp.809-815, 2010 (Journal Indexed in SCI)
- 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, vol.237, 2009 (Journal Indexed in SCI)
- 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, vol.49, no.21, pp.4703-4712, 2008 (Journal Indexed in SCI)
- 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, vol.17, no.10, pp.1595-1602, 2007 (Journal Indexed in SCI)
- 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, vol.39, no.9, pp.3350-3358, 2006 (Journal Indexed in SCI)
- 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, vol.47, no.4, pp.599-603, 2006 (Journal Indexed in SCI)
- 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, vol.61, no.35, pp.8345-8350, 2005 (Journal Indexed in SCI)
- 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, vol.81, no.6, pp.660-668, 2003 (Journal Indexed in SCI)
- XXVIII. **Photooxidation of 2'-deoxyguanosine 5'-monophosphate in aqueous solution**  
Torun L., Morrison H.  
PHOTOCHEMISTRY AND PHOTOBIOLOGY, vol.77, no.4, pp.370-375, 2003 (Journal Indexed in SCI)
- XXIX. **Cycloaddition reactions of sodium dinitroxytrioxide (Angeli's salt)**  
Torun L., Mohammad T., Morrison H.  
Tetrahedron Letters, vol.40, no.29, pp.5279-5282, 1999 (Journal Indexed in SCI)

## Articles Published in Other Journals

- 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, vol.20, no.3, pp.705-715, 2020 (Journal Indexed in ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- 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 Antigonislerinin 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., Aydoğan 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., Aydoğan B., Yagci Y.

NanoTR IV, 15-18 June 2010 ,

## Other Publications

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

TORUN L.

Other, 2001

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

TORUN L.

Other, 1994

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

TORUN L.

Other, 1986

## Supported Projects

TORUN L., OCAK H., ÇAKMAKCI M., Project Supported by Higher Education Institutions, Yeni Polieter-Sülfon Membran Malzemelerinin Geliştirilmesi ve Su Geçirgenlik Performanslarının Araştırılması, 2016 - 2018

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

TORUN L., Other Supported Projects, Triazin Makromoleküllerin Sentezi, Karakterizasyonu ve Fiziksel Özelliklerinin İncelenmesi, 2014 - 2017

TORUN L., TÜBİTAK Project, Polisülfonların Üretilmesi ve Uygulamaları, Continues

TORUN L., Project Supported by Other Official Institutions, İleri Teknoloji Tesisat Malzemelerinin Geliştirilmesi ve Uygulamaları, Continues

TORUN L., Other Supported Projects, Enerji Absorblama ve Darbe dayanımı artırılmış Polimerik Malzemeler, Continues

TORUN L., Other Supported Projects, Synthesis and Structure Activity Relationship Studies of 3-Biaryl-8-oxabicyclo[3.2.1]octane-2-carboxylic Acid Methyl Esters, Continues

## Tasks In Event Organizations

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, Scientific Congress, İstanbul, Turkey, Eylül 2019

## Citations

Total Citations (WOS):532

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