

## Assoc. Prof. Barış Kışkan

### Personal Information

Email: kiskanb@itu.edu.tr

### Education Information

Post Doctorate, Max-Planck Institute, Colloids And Interfaces, Kimya, Germany 2010 - 2011

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2002 - 2009

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2000 - 2002

Under Graduate, Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1996 - 2000

### Foreign Languages

English

### Dissertations

Doctorate, Benzoxazine based macromolecular architecture, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2009

Post Graduate, Synthesis of soluble and conducting polypyrrole copolymers, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2002

### Research Areas

Basic Sciences, Chemistry, Organic Chemistry, Chemistry of Macromolecules

### Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2013 - Continues

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2001 - Continues

### Professional Experience

### Courses

GENERAL CHEMISTRY, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

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

1. Cyanuric chloride as a potent catalyst for the reduction of curing temperature of benzoxazines

Akkus B., Kışkan B., Yağcı Y.

Polymer Chemistry, vol.11, pp.1025-1032, 2020 (Journal Indexed in SCI)

- II. **An oxygen-tolerant visible light induced free radical polymerization using mesoporous graphitic carbon nitride**  
Kaya K., Kışkan B., Kumru B., Schmidt B. V. , Yağcı Y.  
European Polymer Journal, vol.122, 2020 (Journal Indexed in SCI)
- III. **Advanced Polymers from Simple Benzoxazines and Phenols by Ring-Opening Addition Reactions**  
Deliballi Z., Kışkan B., Yağcı Y.  
Macromolecules, 2020 (Journal Indexed in SCI)
- IV. **The Journey of Phenolics from the First Spark to Advanced Materials**  
Kışkan B., Yağcı Y.  
Israel Journal of Chemistry, vol.60, pp.20-32, 2020 (Journal Indexed in SCI Expanded)
- V. **Combining naphthoxazines and benzoxazines for non-symmetric curable oxazines by one-pot synthesis**  
Gungor F. S. , Bati B., Kışkan B.  
EUROPEAN POLYMER JOURNAL, vol.121, 2019 (Journal Indexed in SCI)
- VI. **Combining polybenzoxazines and polybutadienes via simultaneous inverse and direct vulcanization for flexible and recyclable thermosets by polysulfide dynamic bonding**  
Akkus B., Kışkan B., Yağcı Y.  
POLYMER CHEMISTRY, vol.10, pp.5743-5750, 2019 (Journal Indexed in SCI)
- VII. **One-Pot Synthesis of Amide-Functional Main-Chain Polybenzoxazine Precursors**  
Durukan C., Kışkan B., Yağcı Y.  
POLYMERS, vol.11, 2019 (Journal Indexed in SCI)
- VIII. **Coumarines as masked phenols for amide functional benzoxazines**  
Kaya G., Kışkan B., Yagci Y.  
Polymer Chemistry, vol.10, pp.1268-1275, 2019 (Journal Indexed in SCI Expanded)
- IX. **Counterion Effect of Amine Salts on Ring-Opening Polymerization of 1,3-Benzoxazines**  
Akkus B., Kışkan B., Yagci Y.  
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.220, 2019 (Journal Indexed in SCI)
- X. **Benzoxazine-Based Thermoset with Autonomous Self-Healing and Shape Recovery**  
Arslan M., Kışkan B., Yagci Y.  
MACROMOLECULES, vol.51, pp.10095-10103, 2018 (Journal Indexed in SCI)
- XI. **Rationalizing the regioselectivity of cationic ring-opening polymerization of benzoxazines**  
Furuncuoğlu Özalın T., Catak S., Kışkan B., Yagci Y., Aviyente V.  
European Polymer Journal, vol.105, pp.61-67, 2018 (Journal Indexed in SCI Expanded)
- XII. **Adapting benzoxazine chemistry for unconventional applications**  
Kışkan B.  
Reactive and Functional Polymers, vol.129, pp.76-88, 2018 (Journal Indexed in SCI Expanded)
- XIII. **Combining benzoxazine and ketene chemistries for self-healing of high performance thermoset surfaces**  
ARSLAN M., Motallebzadeh A., Kışkan B., Demirel A. L. , Kumbaracı İ. V. , Yagci Y.  
Polymer Chemistry, vol.9, pp.2031-2039, 2018 (Journal Indexed in SCI Expanded)
- XIV. **Phenolic Naphthoxazines as Curing Promoters for Benzoxazines**  
Kaya G., Kışkan B., Yagci Y.  
MACROMOLECULES, vol.51, pp.1688-1695, 2018 (Journal Indexed in SCI)
- XV. **Tailoring polyvinyl alcohol with triazinanes and formaldehyde**  
Gungor F. S. , Kışkan B.  
Reactive and Functional Polymers, vol.124, pp.115-120, 2018 (Journal Indexed in SCI Expanded)
- XVI. **Ring-Opening Polymerization of 1,3-Benzoxazines via Borane Catalyst**  
ARSLAN M., Kışkan B., Yagci Y.  
POLYMERS, vol.10, 2018 (Journal Indexed in SCI)

- XVII. **Main-chain benzoxazine precursor block copolymers**  
DELIBALLI Z., Kışkan B., Yagci Y.  
Polymer Chemistry, vol.9, pp.178-183, 2018 (Journal Indexed in SCI Expanded)
- XVIII. **An efficient, heterogeneous, reusable atom transfer radical polymerization catalyst**  
Taskin O. S. , Kiskan B., Yagci Y.  
Polymer International, vol.67, pp.55-60, 2018 (Journal Indexed in SCI Expanded)
- XIX. **Ammonium salt catalyzed ring-opening polymerization of 1,3-benzoxazines**  
KOCAARSLAN A., Kışkan B., Yagci Y.  
Polymer, vol.122, pp.340-346, 2017 (Journal Indexed in SCI Expanded)
- XX. **Recycling and Self-Healing of Polybenzoxazines with Dynamic Sulfide Linkages**  
Kışkan B., ARSLAN M., Yağcı Y.  
SCIENTIFIC REPORTS, vol.7, pp.1-11, 2017 (Journal Indexed in SCI)
- XXI. **Poly(benzoxazine-co-sulfur): An Efficient Sorbent for Mercury Removal from Aqueous Solution**  
Kışkan B., ARSLAN M., Yağcı Y., Kayan B., Akay S., Kalderis D.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.1, pp.1-11, 2017 (Journal Indexed in SCI)
- XXII. **Post-Modification of Polybutadienes by Photoinduced Hydrogen Abstraction from Benzoxazines and Their Thermally Activated Curing**  
Arslan M., Kışkan B., YAGCI Y.  
MACROMOLECULES, vol.49, pp.5026-5032, 2016 (Journal Indexed in SCI)
- XXIII. **Inverse vulcanization of bismaleimide and divinylbenzene by elemental sulfur for lithium sulfur batteries**  
ARSLAN M., Kışkan B., Cengiz E. C. , Demir-Cakan R., Yagci Y.  
European Polymer Journal, vol.80, pp.70-77, 2016 (Journal Indexed in SCI Expanded)
- XXIV. **Melamine-based microporous polymer for highly efficient removal of copper(II) from aqueous solution**  
Taskin O. S. , Ersoy N., Aksu A., Kışkan B., Balkis N., Yagci Y.  
POLYMER INTERNATIONAL, vol.65, pp.439-445, 2016 (Journal Indexed in SCI)
- XXV. **Combining Elemental Sulfur with Polybenzoxazines via Inverse Vulcanization**  
Arslan M., Kışkan B., Yagci Y.  
Macromolecules, vol.49, pp.767-773, 2016 (Journal Indexed in SCI Expanded)
- XXVI. **Externally stimulated click reactions for macromolecular syntheses Dedicated to Prof. Krzysztof Matyjaszewski on the occasion of his 65th birthday.**  
Tasdelen M. A. , Kışkan B., Yagci Y.  
Progress in Polymer Science, vol.52, pp.19-78, 2016 (Journal Indexed in SCI Expanded)
- XXVII. **One-Pot, One-Step Strategy for the Preparation of Clickable Melamine Based Microporous Organic Polymer Network**  
Taskin O. S. , KISKAN B., WEBER J., Yagci Y.  
MACROMOLECULAR MATERIALS AND ENGINEERING, vol.300, pp.1116-1122, 2015 (Journal Indexed in SCI)
- XXVIII. **Synthesis and properties of organo-gels by thiol-benzoxazine chemistry**  
Bektas S., KISKAN B., ORAKDOGEN N., Yagci Y.  
POLYMER, vol.75, pp.44-50, 2015 (Journal Indexed in SCI)
- XXIX. **Preparation of microporous organic polymer through Schiff base chemistry and its potential application**  
Taskin O. S. , KISKAN B., AKSU A., BALKIS N., Yagci Y.  
DESIGNED MONOMERS AND POLYMERS, vol.18, pp.567-573, 2015 (Journal Indexed in SCI)
- XXX. **Highly Efficient and Reusable Microporous Schiff Base Network Polymer as a Heterogeneous Catalyst for CuAAC Click Reaction**  
Taskin O. S. , DADASHI-SILAB S., KISKAN B., WEBER J., Yagci Y.  
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.216, pp.1746-1753, 2015 (Journal Indexed in SCI)
- XXXI. **Thiol reactive polybenzoxazine precursors: A novel route to functional polymers by thiol-oxazine chemistry**

Semerci E., KISKAN B., Yagci Y.

EUROPEAN POLYMER JOURNAL, vol.69, pp.636-641, 2015 (Journal Indexed in SCI)

XXXII. **Benzoxazine-Based Thermosets with Autonomous Self-Healing Ability**

Arslan M., KISKAN B., Yagci Y.

MACROMOLECULES, vol.48, pp.1329-1334, 2015 (Journal Indexed in SCI)

XXXIII. **Thiol-benzoxazine chemistry as a novel Thiol-X reaction for the synthesis of block copolymers**

Musa A., Kışkan B., YAGCI Y.

POLYMER, vol.55, pp.5550-5556, 2014 (Journal Indexed in SCI)

## Articles Published in Other Journals

I. **Copper(II) removal from the aqueous solution using microporous benzidine-based adsorbent material**

Taskin O. S., Kışkan B., Aksu A., Balkis N., Yagci Y.

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.4, pp.899-907, 2016 (Journal Indexed in ESCI)

## Supported Projects

Kışkan B., Bayram O., Project Supported by Higher Education Institutions, Sülfür, iyonon ve yenilenebilir kaynaklardan elde edilmiş benzoksazinlerin gelişmiş termoset üretimi için kullanımı, 2020 - 2020

Kışkan B., Kaya B. G., Project Supported by Higher Education Institutions, Yüksek Performanslı Polibenzoksazin Termosetlerinin Sentezi, 2018 - 2020

Kışkan B., Kaya B. G., Project Supported by Higher Education Institutions, Amit Fonksiyonlu Benzoksazin Temelli Termosetler, 2018 - 2019

Kışkan B., Delibalı Z., Project Supported by Higher Education Institutions, Benzoksazinlerin Polipropilen Oksit Kopolimerleri, 2018 - 2018

Kışkan B., Project Supported by Higher Education Institutions, KENDİLİĞİNDEN İYİLEŞEN POLİBENZOKSAZİN POLİMERLERİ, 2015 - 2018

Kışkan B., Project Supported by Higher Education Institutions, Gerleşmiş Malzemeler İçin Yeni Benzoksazin Sentezleri, 2013 - 2018

Kışkan B., Project Supported by Higher Education Institutions, Fonksiyonel Malzemeler İçin Polibenzoksazinlerin Kullanımı, 2013 - 2018

Kışkan B., Project Supported by Higher Education Institutions, TİYOFEN VE PİROL FONKSİYONLU POLİSTİREN SENTEZİ VE KARAKTERİZASYONU, 2010 - 2018

Kışkan B., Project Supported by Higher Education Institutions, Benzoksazin Esaslı Malzemelerin Sentezi ve Karakterizasyonu, 2012 - 2015

## Patent

Yağcı Y., Kışkan B., Bir kolon dolgu malzemesi ve üretim yöntemi., Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration

Kışkan B., A column filling material and a production method thereof, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration

Kışkan B., Polymerizable composition, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration

Yağcı Y., Kışkan B., Bir katalizör ve üretim yöntemi., Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2018

## Activities in Scientific Journals

Reactive & Functional Polymers, Committee Member, 2019 - Continues

## **Memberships / Tasks in Scientific Organizations**

Member, 2016 - Continues

## **Scientific Refereeing**

MACROMOLECULES, SCI Journal, April 2020  
MACROMOLECULAR RESEARCH, SCI Journal, April 2020  
ACS APPLIED MATERIALS & INTERFACES, SCI Journal, April 2020  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, SCI Journal, April 2020  
POLYMER INTERNATIONAL, SCI Journal, April 2020  
High Performance Polymers, SCI Journal, April 2020  
REACTIVE & FUNCTIONAL POLYMERS, SCI Journal, March 2020  
REACTIVE & FUNCTIONAL POLYMERS, SCI Journal, March 2020  
POLYMER BULLETIN, SCI Journal, March 2020  
REACTIVE & FUNCTIONAL POLYMERS, SCI Journal, March 2020  
REACTIVE & FUNCTIONAL POLYMERS, SCI Journal, March 2020  
POLYMER, SCI Journal, March 2020  
EUROPEAN POLYMER JOURNAL, SCI Journal, February 2020  
POLYMER CHEMISTRY, SCI Journal, February 2020  
ACS OMEGA, SCI Journal, January 2020  
COLLOID AND POLYMER SCIENCE, SCI Journal, January 2020  
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, SCI Journal, October 2019  
REACTIVE & FUNCTIONAL POLYMERS, SCI Journal, October 2019  
POLYMER CHEMISTRY, SCI Journal, August 2019  
EUROPEAN POLYMER JOURNAL, SCI Journal, July 2019  
REACTIVE & FUNCTIONAL POLYMERS, SCI Journal, June 2019  
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, SCI Journal, May 2019  
ASIAN JOURNAL OF CHEMISTRY, SCI Journal, March 2019  
ACS OMEGA, SCI Journal, February 2019  
Iranian Polymer Journal, Journal Indexed in SSCI, October 2018  
Turkish journal of chemistry, SCI Journal, September 2018  
Polymer, SCI Journal, September 2018  
Reactive and Functional Polymers, SCI Journal, August 2018  
Thermochimica Acta, SCI Journal, August 2018  
Polymer Composites, SCI Journal, July 2018  
Reactive and Functional Polymers, SCI Journal, July 2018  
Reactive and Functional Polymers, SCI Journal, July 2018  
Reactive and Functional Polymers, SCI Journal, June 2018  
Macromolecular Rapid Communications, National Scientific Refreed Journal, May 2018  
Journal of Polymer Science Polymer Chemistry, SCI Journal, April 2018  
Macromolecules, SCI Journal, March 2018  
ACS Sustainable Chemistry & Engineering, SCI Journal, February 2018  
Reactive and Functional Polymers, SCI Journal, February 2018  
Journal of Molecular Liquids, SCI Journal, November 2017  
Scientific Reports, SCI Journal, November 2017  
Reactive and Functional Polymers , SCI Journal, November 2017

Reactive and Functional Polymers , SCI Journal, October 2017  
Composites Part A, SCI Journal, September 2017  
International Journal of Polymer Science, SCI Journal, August 2017  
Arabian Journal for Science and Engineering, SCI Journal, August 2017  
High Performance Polymers , SCI Journal, June 2017  
Journal of Materials Science, SCI Journal, June 2017  
European Polymer Journal, SCI Journal, June 2017  
Reactive and Functional Polymers , SCI Journal, June 2017  
Reactive and Functional Polymers , SCI Journal, June 2017  
Polymer, SCI Journal, June 2017  
The Journal of Physical Chemistry, SCI Journal, June 2017  
High Performance Polymers , SCI Journal, May 2017  
Reactive and Functional Polymers , SCI Journal, April 2017  
Polymer, SCI Journal, April 2017  
European Polymer Journal, SCI Journal, March 2017  
Polymer Chemistry, SCI Journal, February 2017  
Polymer Composites, SCI Journal, February 2017  
High Performance Polymers , SCI Journal, November 2016  
Macromolecular Rapid Communications, SCI Journal, October 2016  
Designed Monomers and Polymers , SCI Journal, October 2016  
Polymer, SCI Journal, September 2016  
Polymer Testing, SCI Journal, September 2016  
European Polymer Journal, SCI Journal, September 2016  
Turkish Journal of Chemistry, SCI Journal, July 2016  
Polymer Composites, SCI Journal, July 2016  
RSC Advances, SCI Journal, April 2016  
RSC Advances, SCI Journal, April 2016  
Materials Letters , SCI Journal, April 2016  
Designed Monomers and Polymers , SCI Journal, April 2016  
Materials Letters , SCI Journal, March 2016  
Designed Monomers and Polymers , SCI Journal, February 2016  
European Polymer Journal, SCI Journal, January 2016  
Chemical Communications, SCI Journal, January 2016  
Iranian Polymer Journal , SCI Journal, December 2015  
Polymer Chemistry, SCI Journal, December 2015  
High Performance Polymers , SCI Journal, November 2015  
Journal of Chemistry, SCI Journal, November 2015  
Polymers for Advanced Technologies , SCI Journal, October 2015  
Designed Monomers and Polymers , SCI Journal, October 2015  
The Journal of Physical Chemistry, SCI Journal, September 2015  
Reactive and Functional Polymers , SCI Journal, August 2015  
Advanced and Emerging Polybenzoxazine Science and Technology, Scientific / Professional Book Published by  
Renowned Publishing Houses, July 2015  
Reactive and Functional Polymers , SCI Journal, July 2015  
Reactive and Functional Polymers , SCI Journal, June 2015  
Polymer Composites, SCI Journal, May 2015  
Reactive and Functional Polymers , SCI Journal, May 2015  
Polymer Engineering & Science, SCI Journal, April 2015  
Reactive and Functional Polymers , SCI Journal, April 2015  
Designed Monomers and Polymers , SCI Journal, March 2015  
Polymer Chemistry, SCI Journal, October 2014

European Polymer Journal, SCI Journal, October 2014  
Designed Monomers and Polymers , SCI Journal, October 2014  
Macromolecules, SCI Journal, September 2014  
Designed Monomers and Polymers , SCI Journal, August 2014  
Journal of Polymers, Other Indexed Journal, June 2014  
Designed Monomers and Polymers , SCI Journal, May 2014  
International Journal of Polymer Science, SCI Journal, May 2014  
Composites Science and Technology, SCI Journal, May 2014  
Materials and Design, SCI Journal, March 2014  
ISRN Polymer Science, Other Indexed Journal, January 2014  
Designed Monomers and Polymers , SCI Journal, January 2014  
Journal of Applied Polymer Science , SCI Journal, January 2014  
Current Green Chemistry, SCI Journal, November 2013  
Designed Monomers and Polymers , SCI Journal, November 2013  
ISRN Polymer Science, Other Indexed Journal, July 2013  
Designed Monomers and Polymers , SCI Journal, July 2013  
Polymer, SCI Journal, June 2013  
ISRN Polymer Science, Other Indexed Journal, May 2013  
Polymer International, SCI Journal, May 2013  
ISRN Polymer Science, Other Indexed Journal, April 2013  
ISRN Polymer Science, Other Indexed Journal, January 2013  
ISRN Polymer Science, Other Indexed Journal, January 2013  
Designed Monomers and Polymers , SCI Journal, December 2012  
Journal of Applied Polymer Science , SCI Journal, October 2012  
ISRN Polymer Science, Other Indexed Journal, October 2012  
ISRN Polymer Science, Other Indexed Journal, August 2012  
ISRN Polymer Science, Other Indexed Journal, June 2012  
Designed Monomers and Polymers , SCI Journal, May 2012  
ISRN Polymer Science, Other Indexed Journal, May 2012  
Designed Monomers and Polymers , SCI Journal, April 2012  
Designed Monomers and Polymers , SCI Journal, March 2012  
ISRN Polymer Science, Other Indexed Journal, March 2012  
ISRN Polymer Science, Other Indexed Journal, December 2011  
eXPRESS Polymer Letters, SCI Journal, February 2011  
Materials Today, SCI Journal, October 2010

## **Invited Congress and Symposium Activities**

46th IUPAC World Polymer Congress (MACRO 2016), Session Moderator, İstanbul, Turkey, 2016  
4th International Symposium on Thermosets Baekeland 2013, Invited Speaker, Toronto, Canada, 2013  
Baekeland, 2nd International Symposium on Thermosets, Invited Speaker, Antalya, Turkey, 2009

## **Citations**

Total Citations (WOS):4402  
h-index (WOS):38

## **Scholarships**

