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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi (Dr), Turkey 2004 - 2010

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, Turkey 2002 - 2004

Under Graduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1997 - 2002

Foreign Languages

English

Dissertations

Doctorate, Diels-Alder click reaction in macromolecular structures, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi (Dr), 2010

Post Graduate, Synthesis of miktoarm star copolymers via atom transfer and stable free radical polymerization routes, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, 2004

Research Areas

Basic Sciences, Chemistry

Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2020 - Continues

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

- I. **Electrospinning of Poly(1,4-Cyclohexanedimethylene Acetylene Dicarboxylate): Study on the Morphology, Wettability, Thermal and Biodegradation Behaviors**
Daglar O., Altınkök Ç., Acik G., Durmaz H.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.221, no.23, 2020 (Journal Indexed in SCI)
- II. **Nucleophilic Thiol-yne reaction in Macromolecular Engineering: From synthesis to applications**
Daglar O., Lüleburgaz S., Baysak E., Günay U. S. , Hızal G., Tunca Ü., Durmaz H.
EUROPEAN POLYMER JOURNAL, vol.137, 2020 (Journal Indexed in SCI)
- III. **Non-covalent functionalization of single walled carbon nanotubes with pyrene pendant polyester: A DFT supported study**

Ozgen P. S. O. , Durmaz H., PARLAK C., Alver O., Baglayan O.

JOURNAL OF MOLECULAR STRUCTURE, vol.1209, 2020 (Journal Indexed in SCI)

- IV. **Extremely fast synthesis of polythioether based phase change materials (PCMs) for thermal energy storage**
Daglar O., ÇAKMAKÇI E., Hızal G., Tunca Ü., Durmaz H.
EUROPEAN POLYMER JOURNAL, vol.130, 2020 (Journal Indexed in SCI)
- V. **A Straightforward Method for Fluorinated Polythioether Synthesis**
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MACROMOLECULES, vol.53, no.8, pp.2965-2975, 2020 (Journal Indexed in SCI)
- VI. **Rapid Hyperbranched Polythioether Synthesis Through Thiol-Michael Addition Reaction**
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- VII. **Extremely rapid postfunctionalization of maleate and fumarate main chain polyesters in the presence of TBD**
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- VIII. **Aliphatic Polyester/polyhedral Oligomeric Silsesquioxanes Hybrid Networks via Copper-free 1,3-dipolar Cycloaddition Click Reaction**
Ozdogan R., Daglar O., Durmaz H., TAŞDELEN M. A.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.57, no.22, pp.2222-2227, 2019 (Journal Indexed in SCI)
- IX. **Extremely Rapid Polythioether Synthesis in the Presence of TBD**
Daglar O., Günay U. S. , Hızal G., Tunca Ü., Durmaz H.
MACROMOLECULES, vol.52, no.9, pp.3558-3572, 2019 (Journal Indexed in SCI)
- X. **Synthesis and post-polymerization modification of polyester containing pendant thiolactone units**
Baysak E., Günay U. S. , dağlar O., Durmaz H.
EUROPEAN POLYMER JOURNAL, vol.112, pp.241-247, 2019 (Journal Indexed in SCI)
- XI. **Study on Post-Polymerization Modification of Ring-Opening Metathesis Polymers Involving Pendant Thiolactone Units**
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- XII. **Preparation of Linear and Hyperbranched Fluorinated Poly(Aryl Ether-Thioether) through Para-Fluoro-Thiol Click Reaction**
Baysak E., Tunca Ü., Hızal G., Durmaz H.
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- XIII. **An emerging post-polymerization modification technique: The promise of thiol-para-fluoro click reaction**
AGAR S., Baysak E., Hızal G., Tunca Ü., Durmaz H.
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- XIV. **Ultrafast and efficient aza- and thiol-Michael reactions on a polyester scaffold with internal electron deficient triple bonds**
Günay U. S. , Cetin M., Daglar O., Hızal G., Tunca Ü., Durmaz H.
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- XV. **Indirect functionalization of multiwalled carbon nano tubes through non-covalent interaction of functional polyesters**
Omurtag P. S. , Alkan B., Durmaz H., Hızal G., Tunca Ü.
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- XVI. **Modification of electron deficient polyester via Huisgen/Passerini sequence**

- Lüleburgaz S., Hızal G., Durmaz H., Tunca Ü.
POLYMER, vol.127, pp.45-51, 2017 (Journal Indexed in SCI)
- XVII. **Synthesis of Activated Ester Functional Polyesters through Light-Induced [4+4] Cycloaddition Polymerization**
Baysak E., Durmaz H., Tunca Ü., Hızal G.
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- XVIII. **Synthesis of Poly(vitamin C) through ADMET**
Lüleburgaz S., ABUAF M., Tunca Ü., Hızal G., Durmaz H.
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- XIX. **Post-Functionalization of Perfluorophenyl Ester-Functional Acyclic Diene Metathesis Polymer**
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JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.54, no.16, pp.2593-2598, 2016 (Journal Indexed in SCI)
- XX. **Heterofunctionalized Multiarm Star Polymers via Sequential Thiol-para-Fluoro and Thiol-Ene Double "Click" Reactions**
Cakir N., TUNCA Ü., Hızal G., DURMAZ H.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.217, no.5, pp.636-645, 2016 (Journal Indexed in SCI)
- XXI. **A Route Toward Multifunctional Polyurethanes Using Triple Click Reactions**
Demirel E., DURMAZ H., Hızal G., TUNCA Ü.
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- XXII. **Dual Release Carriers for Cochlear Delivery**
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- XXIII. **1,3-Dipolar and Diels-Alder cycloaddition reactions on polyester backbones possessing internal electron-deficient alkyne moieties**
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- XXIV. **Well-defined polyethylene-based graft terpolymers by combining nitroxide-mediated radical polymerization, polyhomologation and azide/alkyne "click" chemistry**
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- XXV. **Postfunctionalization of polyoxanorbornene backbone through the combination of bromination and nitroxide radical coupling reactions**
Atici L. N. , DEMIREL E., TUNCA Ü., Hızal G., DURMAZ H.
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- XXVII. **CXCR4-Targeted Nanocarriers for Triple Negative Breast Cancers**
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- XXVIII. **Selective and Reversible Binding of Thiol-Functionalized Biomolecules on Polymers Prepared via Chemical Vapor Deposition Polymerization**
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- XXX. **Long-circulating Janus nanoparticles made by electrohydrodynamic co-jetting for systemic drug delivery applications**
Rahmani S, Villa C. H. , Dishman A. F. , Grabowski M. E. , Pan D. C. , Durmaz H, Misra A. C. , Colon-Melendez L, Solomon M. J. , Muzykantov V. R. , et al.
JOURNAL OF DRUG TARGETING, vol.23, pp.750-758, 2015 (Journal Indexed in SCI)
- XXXI. **Synthesis and Characterization of Biodegradable Amphiphilic Star and Y-Shaped Block Copolymers as Potential Carriers for Vinorelbine**
Bahadori F, DAG A, Durmaz H, ÇAKIR N, ONYUKSEL H., TUNCA Ü., TOPCU G., HIZAL G.
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- XXXII. **V-Shaped Graft Copolymers via Triple Click Reactions: Diels-Alder, Copper-Catalyzed Azide-Alkyne Cycloaddition, and Nitroxide Radical Coupling**
Günay U. S. , OZSOY B., DURMAZ H., HIZAL G., TUNCA Ü.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.51, no.21, pp.4667-4674, 2013 (Journal Indexed in SCI)
- XXXIII. **Quadruple click reactions for the synthesis of cysteine-functional heterograft brush copolymer**
Candan O. A. , Kopan D., Durmaz H., Hızal G., Tunca Ü.
EUROPEAN POLYMER JOURNAL, vol.49, no.7, pp.1796-1802, 2013 (Journal Indexed in SCI)
- XXXIV. **Diels-alder click reaction for the preparation of polycarbonate block copolymers**
Omurtag P. S. , Günay U. S. , DAG A., DURMAZ H., HIZAL G., TUNCA Ü.
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- XXXV. **Heterograft Brush Copolymers via Romp and Triple Click Reaction Strategies Involving CuAAC, Diels-Alder, and Nitroxide Radical Coupling Reactions**
Çakır Yiğit N., Yavuzarslan M., Durmaz H., Hızal G., Tunca Ü.
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Dag A., Aydın M., Durmaz H., Hızal G., Tunca Ü.
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- XXXVII. **Postfunctionalization of polyoxanorbornene via sequential Michael addition and radical thiol-ene click reactions**
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- XXXVIII. **Quadruple click reactions for the synthesis of cysteine-terminated linear multiblock copolymers**
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- XXXIX. **Synthesis and characterization of pyrene bearing amphiphilic miktoarm star polymer and its noncovalent interactions with multiwalled carbon nanotubes**
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- XL. **Synthesis of tadpole polymers via triple click reactions: Copper-catalyzed azide-alkyne cycloaddition, diels-alder, and nitroxide radical coupling reactions**
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- XLI. **3-miktoarm star terpolymers using triple click reactions: Diels-Alder, copper-catalyzed azide-alkyne cycloaddition, and nitroxide radical coupling reactions**

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JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.50, no.4, pp.729-735, 2012 (Journal Indexed in SCI)

- XLII. **Double click reaction strategies for polymer conjugation and post-functionalization of polymers**
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POLYMER CHEMISTRY, vol.3, no.4, pp.825-835, 2012 (Journal Indexed in SCI)
- XLIII. **Thermally Curable Polyoxanorbornene by Ring Opening Metathesis Polymerization**
TAŞDELEN M. A. , Durmaz H.
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- XLIV. **Synthesis of a Novel Macroinimer Based on Thiophene and Poly(epsilon-caprolactone) and Its Use in Electrochromic Device Application**
Kucuk A. C. , YILMAZ F., CAN H., Durmaz H., Kosemen A., Muftuoglu A. E.
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- XLV. **Various Brush Polymers Through Ring Opening Metathesis Polymerization and Nitroxide Radical Coupling Reaction**
Cerit N., CAKIR N., DAG A., Sirkecioğlu O., DURMAZ H., HIZAL G., TUNCA Ü.
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- XLVII. **Sequential Double Polymer Click Reactions for the Preparation of Regular Graft Copolymers**
Durmaz H., DAG A., HIZAL G., TUNCA Ü.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.49, no.5, pp.1195-1200, 2011 (Journal Indexed in SCI)
- XLVIII. **Block-Brush Copolymers via ROMP and Sequential Double Click Reaction Strategy**
Dag A., SAHIN H., Durmaz H., HIZAL G., TUNCA Ü.
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- L. **Cyclic Homo and Block Copolymers Through Sequential Double Click Reactions**
Durmaz H., DAG A., Hizal G., TUNCA Ü.
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- LI. **Multiarm Star Polymers with Peripheral Dendritic PMMA Arms Through Diels-Alder Click Reaction**
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- LII. **An easy way to the preparation of multi-miktoarm star block copolymers via sequential double click reactions**
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- LIII. **Maleimide-Based Thiol Reactive Multiarm Star Polymers via Diels-Alder/Retro Diels-Alder Strategy**
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- LIV. **Multiarm Star Triblock Terpolymers via Sequential Double Click Reactions**
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- LV. **Novel strategy for tailoring of SiO₂ and TiO₂ nanoparticle surfaces with poly(epsilon-caprolactone)**
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- LVIII. **Three-Arm Star Ring Opening Metathesis Polymers via Alkyne-Azide Click Reaction**
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- LIX. **ROMP-NMP-ATRP Combination for the Preparation of 3-Miktoarm Star Terpolymer via Click Chemistry**
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- LX. **Multiarm Star Block Copolymers via Diels-Alder Click Reaction**
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- LXI. **One-Pot Synthesis of Star-Block Copolymers Using Double Click Reactions**
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- LXII. **Heterograft Copolymers via Double Click Reactions Using One-Pot Technique**
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- LXIII. **H-shaped (ABCDE type) quinterpolymer via click reaction [3+2] strategy**
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- LXIV. **Preparation of 3-arm star polymers (A(3)) via Diels-Alder click reaction**
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- LXV. **Heteroarm H-shaped terpolymers through click reaction**
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- LXVI. **One-pot synthesis of ABC type triblock copolymers via in situ click [3+2] and Diels-Alder [4+2] reactions**

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- LXVII. **Anthracene-maleimide-based Diels-Alder "click chemistry" as a novel route to graft copolymers**
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- LXIX. **Preparation of block copolymers via diels alder reaction of maleimide- and anthracene-end functionalized polymers**
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- LXX. **Preparation of ABC miktoarm star terpolymer containing poly(ethylene glycol), polystyrene, and poly(tert-butylacrylate) arms by combining Diels-Alder reaction, atom transfer radical, and stable free radical polymerization routes**
Durmaz H., KARATAS F., TUNCA U., Hizal G.
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Articles Published in Other Journals

- I. **Use of Atom Transfer Radical Coupling Reactions for the Synthesis of Various Macromolecular, Structures**
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Abstracts of Papers of the American Chemical Society, Polymer Preprints, vol.49, no.2, pp.382-383, 2008 (Refereed Journals of Other Institutions)

Supported Projects

- Durmaz H., Lüleburgaz S., TUBITAK Project, İndirgeyici Silan Kenetlenme Reaksiyonu ile Fonksiyonel Polieter Sentezi, 2020 - 2022
- Durmaz H., Dağlar Ö., Project Supported by Higher Education Institutions, Reaktif Çift Bağ İçeren Polyesterin Organo Katalizör Varlığında Tiyoller İle Oldukça Hızlı Ve Yüksek Verimde Fonksiyonlandırılması, 2018 - 2021
- Durmaz H., Günay U. S. , TUBITAK Project, Extremely Fast, High Molecular Weight and High Yield Polithioether Synthesis in the Presence of Organocatalyst, 2018 - 2020
- Durmaz H., Günay U. S. , Project Supported by Higher Education Institutions, Tiyolakton Yan Grupları İçeren Poliester Sentezi ve Modifikasyonu, 2017 - 2018
- Durmaz H., Project Supported by Higher Education Institutions, Poliester Ana Zincirinin Yeni ve Etkin Yöntemlerle Fonksiyonlandırılması, 2016 - 2018
- Durmaz H., TUBITAK Project, "Vitamin-C Temelli Polimerlerin Sentezi ve Karakterizasyonu, 2016 - 2017
- TUBITAK Project, Karbon Nanotüp Yüzey Modifikasyonunda 1 3 Dipolar Siklo Katılma Click ve Diels Alder DA Uygulamaları, 2007 - 2009
- TUBITAK Project, Diels Alder Reaksiyonlarının Makromoleküler Mühendislikte Kullanımı, 2006 - 2008

Citations

Total Citations (WOS):2253

h-index (WOS):28

Awards

Durmaz H., BAGEP-2020, Bilim Akademisi, April 2020

Durmaz H., 2015 Yılı FABED Eser Tümen Üstün Başarı Ödülü, Fevzi Akkaya Bilimsel Etkinlikleri Destekleme Fonu, June 2015