

## Prof. EMRAH ÇAKMAKÇI

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-7712-2019

ScopusID: 36766887700

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### Biography

Emrah ÇAKMAKÇI was born in 1985 in Istanbul. He graduated from Şişli Anatolian High School and then completed his undergraduate studies at Marmara University, Department of Chemistry. He completed his master's and doctoral studies at the same university. During his doctoral studies, he also started to work as a research assistant. In 2017, he was appointed as an assistant professor and he became an associate professor in the same year. Photocurable materials, flame retardants, polyurethanes, polyimides, nanomaterials and biobased polymers are among the topics of his work.

### Education Information

Doctorate, Marmara University, Faculty of Arts and Sciences, Chemistry, Turkey 2009 - 2013

Postgraduate, Marmara University, Faculty of Arts and Sciences, Chemistry, Turkey 2007 - 2009

Undergraduate, Marmara University, Faculty of Arts and Sciences, Chemistry, Turkey 2003 - 2007

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Yeni yüksek performanslı poliimidlerin sentezi ve karakterizasyonu, Marmara Üniversitesi, Faculty of Arts and Sciences, Chemistry, 2013

Postgraduate, Elektrosinning yöntemi ile yeni polimerik malzemelerin sentezi ve karakterizasyonu, Marmara Üniversitesi, Faculty of Arts and Sciences, Chemistry, 2009

### Research Areas

Chemistry, Natural Sciences

## Academic Titles / Tasks

Professor, Marmara University, Faculty of Sciences, Department of Chemistry, 2023 - Continues  
Associate Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2017 - 2023  
Assistant Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2017 - 2018  
Research Assistant, Marmara University, Faculty of Arts and Sciences, Chemistry, 2009 - 2017

## Courses

Organic Chemistry Laboratory II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018  
General Chemistry II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
General Chemistry Laboratory II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Nanomaterials, Postgraduate, 2019 - 2020, 2018 - 2019  
Polimer Kimyasında Yeni Ufuklar, Undergraduate, 2018 - 2019  
General Chemistry I, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
General Chemistry Laboratory II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Research Project, Undergraduate, 2019 - 2020, 2018 - 2019  
Organic Chemistry Laboratory I, Undergraduate, 2018 - 2019, 2017 - 2018  
Advanced Technological Materials, Undergraduate, 2018 - 2019  
Snai Kimya, Undergraduate, 2018 - 2019, 2017 - 2018  
Undergraduate, 2015 - 2016

## Advising Theses

Danış Ö., Çakmakçı E., Gıda atıklarından kolajen ekstraksiyonu ve kitosan, polihidroksialkanoat kompozitlerinin hazırlanması, Postgraduate, A.ODABAŞ(Student), 2020  
Demir S., Çakmakçı E., Pektinazın amberlit XAD-4 reçinelerine klik reaksiyonlarla immobilizasyonu, Postgraduate, D.HOCAOĞLU(Student), 2019  
Demir S., Çakmakçı E., POLİVİNİL ALKOL, JELATİN VE HİDROKSİMETİL SELÜLOZ İÇEREN ÇAPRAZ BAĞLI HİDROJELE LİPAZ ENZİMİNİN İMMOBİLİZASYONU, Postgraduate, E.ÖZAYDIN(Student), 2019  
Ogan A., Çakmakçı E., Asetilkolinesterazın farklı polimerik yüzeylere immobilize edilmesi, Postgraduate, K.KHALED(Student), 2018  
Danış Ö., Çakmakçı E., Extraction of collagen from food waste and the preparation of polyhydroxyalkanoate composites, Postgraduate, M.WESAMBA(Student), 2017  
Demir S., Çakmakçı E., Aldehit fonksiyoneli sahıpolimerik yüzeye antikorların kovalent olarak immobilizasyonu, Postgraduate, M.PELİN(Student), 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **One-Step Solvent-Free Synthesis of Dimer Diamine-Based Autocatalytic Polyol for the Preparation of Polyurethane Foams**  
Nasuhoglu B., ÇAKMAKÇI E., KAHRAMAN M. V.  
Macromolecular Materials and Engineering, vol.309, no.5, 2024 (SCI-Expanded)
- II. **Sustainable polymers from renewable resources through click and multicomponent reactions**  
Lüleburgaz S., ÇAKMAKÇI E., Durmaz H., Tunca Ü.  
European Polymer Journal, vol.209, 2024 (SCI-Expanded)
- III. **Incorporation Mechanism of Potassium in FAPbI<sub>3</sub> Perovskite Solar Cell Materials**  
ALEVLİ M., Gungor N., KAVAK P., ŞAHİN N., Corcor A., Topal I., ESMER K., ÇAKMAKÇI E., DEĞER C., YAVUZ İ.  
Journal of Physical Chemistry C, vol.128, no.7, pp.2759-2766, 2024 (SCI-Expanded)
- IV. **New Horizon in Phospha-Michael Reaction: Ultrafast Double Addition of P-H Bond-Bearing**

## **Nucleophiles to Electron-Deficient Triple Bonds and Its Use for Functional Monomer Synthesis and Polymer Modification**

Sagdic G., Daglar O., ÇAKMAKÇI E., FINDIK V., ERDEM S., Tunca Ü., Günay U. S., Durmaz H.  
Macromolecules, vol.56, no.17, pp.7006-7022, 2023 (SCI-Expanded)

- V. **Removal of boron from aqueous solution by modified cellulose**  
Yetgin A. G., Dundar O. A., ÇAKMAKÇI E., ARAR Ö.  
BIOMASS CONVERSION AND BIOREFINERY, vol.13, no.14, pp.13081-13090, 2023 (SCI-Expanded)
- VI. **Thiol-ene photopolymerization meets azide-alkyne click reactions: P/N/Si-containing, dual curable eugenol-based hybrid coatings**  
Özükanar Ö., ÇAKMAKÇI E., Daglar O., Durmaz H., Kumbaracı İ. V.  
European Polymer Journal, vol.195, 2023 (SCI-Expanded)
- VII. **Itaconic acid-derived reactive protic ionic liquid (PIL)-containing superabsorbent green hydrogel adsorbent for the removal of anionic textile dyes**  
Aydın Urucu O., Deniz S., Kahraman N., Çakmakçı E.  
Materials Today Communications, vol.36, 2023 (SCI-Expanded)
- VIII. **Eugenol-DOPO: A Bio-Based Phosphorous-Containing Monomer for Thiol-ene Photocurable Thermosets**  
Özükanar Ö., ÇAKMAKÇI E., Sagdic G., Günay U. S., Durmaz H., Kumbaracı İ. V.  
Journal of Polymers and the Environment, vol.31, no.7, pp.3259-3271, 2023 (SCI-Expanded)
- IX. **Propiolated Castor Oil: A Novel and Highly Versatile Bio-Based Platform for Extremely Fast, Catalyst-, and Solvent-Free Amino-yne Click Reactions**  
Celik B., Kandemir D., Lüleburgaz S., ÇAKMAKÇI E., Günay U. S., Kumbaracı İ. V., Durmaz H.  
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.11, no.2, pp.831-841, 2023 (SCI-Expanded)
- X. **Arylcoumarin and novel biscoumarin derivatives as potent inhibitors of human glutathione S-transferase**  
Ozalp L., Orhan B., Alparslan M. M., Meletli F., Çakmakçı E., Daniş Ö.  
Journal of Biomolecular Structure and Dynamics, 2023 (SCI-Expanded)
- XI. **Recent advances in flame retardant polymers via thiol-ene click chemistry**  
ÇAKMAKÇI E.  
Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.60, no.12, pp.817-840, 2023 (SCI-Expanded)
- XII. **A double-click strategy for the synthesis of P and N-containing hydrolytically stable reactive flame retardant for photocurable networks**  
Özükanar Ö., ÇAKMAKÇI E., Daglar O., Durmaz H., Kumbaracı İ. V.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.35, 2022 (SCI-Expanded)
- XIII. **Vegetable oil-based, coumarin-containing antibacterial thermosets with improved thermal stability via copper-free thermal azide-alkyne click polymerization**  
ÇAKMAKÇI E., Ozdemir M., Sen F., Bulut M., YALÇIN B.  
INDUSTRIAL CROPS AND PRODUCTS, vol.182, 2022 (SCI-Expanded)
- XIV. **Metal-Free Click Modification of Triple Bond-Containing Polyester with Azide-Functionalized Vegetable Oil: Plasticization and Tunable Solvent Adsorption**  
Cangul K., ÇAKMAKÇI E., Daglar O., Günay U. S., Hızal G., Tunca Ü., Durmaz H.  
ACS OMEGA, vol.7, pp.23332-23341, 2022 (SCI-Expanded)
- XV. **Thermal and mechanical properties of thiol-ene photocured thermosets containing DOPO-based liquid reactive flame retardant synthesized by metal-free azide-alkyne click reaction**  
Sagdic G., ÇAKMAKÇI E., Daglar O., Günay U. S., Hızal G., Tunca Ü., Durmaz H.  
PROGRESS IN ORGANIC COATINGS, vol.167, 2022 (SCI-Expanded)
- XVI. **Isosorbide, pyrogallol, and limonene-containing thiol-ene photocured bio-based organogels for the cleaning of artworks**  
Cakmak Y., Çakmakçı E., Kayaman Apohan N., Karadag R.  
JOURNAL OF CULTURAL HERITAGE, vol.55, pp.391-398, 2022 (SCI-Expanded)

- XVII. **Quaternary imidazolium-functionalized reactive silica nanoparticles-containing thiol-ene photocured antibacterial hybrid coatings**  
Şen F., Kocatürk E., ÇAKMAKÇI E., KAHRAMAN M. V.  
Reactive and Functional Polymers, vol.170, 2022 (SCI-Expanded)
- XVIII. **Imidazole modified acrylate-containing photocured hydrogels for the efficient removal of malachite green dye from aqueous solutions**  
Aracier E. D., AYDIN URUCU O., ÇAKMAKÇI E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, 2021 (SCI-Expanded)
- XIX. **Acetylene Dicarboxylic Acid Diallyl Ester: A Versatile Monomer for Thiol-Ene Photocured Networks**  
Daglar O., ÇAKMAKÇI E., Günay U. S., Hızal G., Tunca Ü., Durmaz H.  
MACROMOLECULAR MATERIALS AND ENGINEERING, vol.306, no.11, 2021 (SCI-Expanded)
- XX. **Practical phosphorylation of polymers: an easy access to fully alcohol soluble synthetically and industrially important polymers**  
Sagdic G., Daglar O., Günay U. S., ÇAKMAKÇI E., Hızal G., Tunca Ü., Durmaz H.  
POLYMER CHEMISTRY, vol.12, pp.4478-4487, 2021 (SCI-Expanded)
- XXI. **Autocatalytic reactive flame retardants for rigid polyurethane foams**  
Hamidov M., ÇAKMAKÇI E., KAHRAMAN M. V.  
Materials Chemistry and Physics, vol.267, 2021 (SCI-Expanded)
- XXII. **All in one: The preparation of polyester/silica hybrid nanocomposites via three different metal-free click reactions**  
Daglar O., ÇAKMAKÇI E., Günay U. S., Hızal G., Tunca Ü., Durmaz H.  
EUROPEAN POLYMER JOURNAL, vol.154, 2021 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **A Straightforward Method for Fluorinated Polythioether Synthesis**  
Daglar O., ÇAKMAKÇI E., Günay U. S., Hızal G., Tunca Ü., Durmaz H.  
MACROMOLECULES, vol.53, no.8, pp.2965-2975, 2020 (SCI-Expanded)
- XXV. **Fully bio-based thiol-ene photocured thermosets from isosorbide and tung oil**  
Seker H., ÇAKMAKÇI E.  
JOURNAL OF POLYMER SCIENCE, vol.58, no.8, pp.1105-1114, 2020 (SCI-Expanded)
- XXVI. **Nonhydrolytic sol-gel synthesized oligosiloxane resin reinforced thiol-ene photocured coatings for the immobilization of acetylcholinesterase**  
Çakmakçı E., Demir S.  
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.91, no.1, pp.72-81, 2019 (SCI-Expanded)
- XXVII. **Isosorbide Diallyl Based Antibacterial Thiol-Ene Photocured Coatings Containing Polymerizable Fluorous Quaternary Phosphonium Salt**  
Çakmakçı E., Sen F., Kahraman M. V.  
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.7, pp.10605-10615, 2019 (SCI-Expanded)
- XXVIII. **Allylimidazole containing OSTE based photocured materials for selective and efficient removal of gold from aqueous media**  
AYDIN URUCU O., Aracier E. D., ÇAKMAKÇI E.  
MICROCHEMICAL JOURNAL, vol.146, pp.997-1003, 2019 (SCI-Expanded)
- XXIX. **HDI trimer based fluorine containing urethane methacrylates for hydrophobic photocured coatings**  
ÇAKMAKÇI E.  
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.58, no.8, pp.854-865, 2019 (SCI-Expanded)
- XXX. **Amine functional magnetic nanoparticles via waterborne thiol-ene suspension photopolymerization for antibody immobilization**  
Muhsir P., ÇAKMAKÇI E., DEMİR S., OGAN A.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.170, pp.122-128, 2018 (SCI-Expanded)

- XXXI. **Surface and proton conductivity properties of electrospun poly(vinyl butyral)/polyaniline nanofibers**  
Basturk E., ÇAKMAKÇI E., MADAKBAŞ S., KAHRAMAN M. V.  
ADVANCES IN POLYMER TECHNOLOGY, vol.37, no.6, pp.1774-1781, 2018 (SCI-Expanded)
- XXXII. **Surface properties of sol-gel-based fluorine-containing ceramic coatings**  
Ugur M. H., ÇAKMAKÇI E., Gungor A., KAYAMAN APOHAN N.  
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.87, no.1, pp.113-124, 2018 (SCI-Expanded)
- XXXIII. **Preparation, characterization, and in vitro evaluation of isoniazid and rifampicin-loaded archaeosomes**  
Attar A., Bakir C., Yuce-Dursun B., Demir S., Çakmakçi E., Daniş Ö., Birbir M., Ogan A.  
CHEMICAL BIOLOGY & DRUG DESIGN, vol.91, no.1, pp.153-161, 2018 (SCI-Expanded)
- XXXIV. **DOPO tethered Diels Alder clickable reactive silica nanoparticles for bismaleimide containing flame retardant thiol-ene nanocomposite coatings**  
OKTAY B., ÇAKMAKÇI E.  
POLYMER, vol.131, pp.132-142, 2017 (SCI-Expanded)
- XXXV. **Allylamino diphenylphosphine oxide and POSS containing flame retardant photocured hybrid coatings**  
ÇAKMAKÇI E.  
PROGRESS IN ORGANIC COATINGS, vol.105, pp.37-47, 2017 (SCI-Expanded)
- XXXVI. **Physical and Covalent Immobilization of Lipase onto Amine Groups Bearing Thiol-Ene Photocured Coatings**  
ÇAKMAKÇI E., Muhsir P., DEMİR S.  
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.181, no.3, pp.1030-1047, 2017 (SCI-Expanded)
- XXXVII. **Maleic anhydride functionalization of OSTE based coatings via thiol-ene "Click" reaction for the covalent immobilization of xylanase**  
ÇAKMAKÇI E., Yuce-Dursun B., DEMİR S.  
REACTIVE & FUNCTIONAL POLYMERS, vol.111, pp.38-43, 2017 (SCI-Expanded)
- XXXVIII. **Thermally Stable Phosphonium Organoclay-Reinforced Polyimide Nanocomposites**  
BİRTANE H., Beyler-Cigil A., ÇAKMAKÇI E., KAHRAMAN M. V.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.56, no.4, pp.443-452, 2017 (SCI-Expanded)
- XXXIX. **Thermal Properties of Phosphorylated Nanodiamond Reinforced Polyimides**  
Beyler-Cigil A., ÇAKMAKÇI E., KAHRAMAN M. V.  
POLYMER COMPOSITES, vol.37, no.8, pp.2285-2292, 2016 (SCI-Expanded)
- XL. **Fluorine and phosphine oxide containing homo and copolyimides**  
ÇAKMAKÇI E., Gungor A., Goren A. C.  
JOURNAL OF FLUORINE CHEMISTRY, vol.186, pp.66-78, 2016 (SCI-Expanded)
- XLI. **Thioether functional chain extender for thermoplastic polyurethanes**  
Altintas Z., ÇAKMAKÇI E., KAHRAMAN M. V., KAYAMAN APOHAN N.  
CHINESE JOURNAL OF POLYMER SCIENCE, vol.33, no.6, pp.850-856, 2015 (SCI-Expanded)
- XLII. **Allyl Phosphonium Salt-Modified Clay for Photocured Coatings: Influence on the Properties of Polyester Acrylate-Based Coatings**  
Zeytuncu B., ÇAKMAKÇI E., KAHRAMAN M. V.  
POLYMER COMPOSITES, vol.36, no.5, pp.946-954, 2015 (SCI-Expanded)
- XLIII. **Preparation of poly(3-hydroxybutyrate-co-hydroxyvalerate) films from halophilic archaea and their potential use in drug delivery**  
DANIŞ Ö., OGAN A., Tatlican P., ATTAR A., ÇAKMAKÇI E., MERTOĞLU B., BİRBİR M.  
EXTREMOPHILES, vol.19, no.2, pp.515-524, 2015 (SCI-Expanded)
- XLIV. **UV-Cured polypropylene mesh-reinforced composite polymer electrolyte membranes**  
ÇAKMAKÇI E., Ugur M. H., Gungor A.  
E-POLYMERS, vol.15, no.2, pp.103-110, 2015 (SCI-Expanded)
- XLV. **Salt-leached microporous membranes for lithium batteries**

Zeytuni E., Ugur M. H., ÇAKMAKÇI E., Gungor A.

IONICS, vol.21, no.1, pp.79-87, 2015 (SCI-Expanded)

- XLVI. **Immobilization of alpha- amylase on aminated polyimide membrane: Preparation, characterization, and properties**  
ÇAKMAKÇI E., Cigil A. B., DANIŞ Ö., DEMİR S., KAHRAMAN M. V.  
STARCH-STARKE, vol.66, pp.274-280, 2014 (SCI-Expanded)
- XLVII. **Preparation and Characterization of Thermally Conductive Thermoplastic Polyurethane/h-BN Nanocomposites**  
ÇAKMAKÇI E., Kocuyigit C., Cakir S., Durmus A., KAHRAMAN M. V.  
POLYMER COMPOSITES, vol.35, no.3, pp.530-538, 2014 (SCI-Expanded)
- XLVIII. **HPLC-DAD analysis of Thymus serpyllum based natural pigments and investigation of their antimicrobial properties**  
ÇAKMAKÇI E., Deveoglu O., Muhammed A., Fouad A., Torgan E., Karadag R.  
PIGMENT & RESIN TECHNOLOGY, vol.43, no.1, pp.19-25, 2014 (SCI-Expanded)
- XLIX. **Preparation and Characterization of Polyaniline/Hexagonal Boron Nitride Composites**  
ÇAKMAKÇI E., MADAKBAŞ S.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.32, no.6, pp.557-561, 2013 (SCI-Expanded)
- L. **Preparation, characterisation, and dielectric properties of polypyrrole-clay composites**  
MADAKBAŞ S., ÇAKMAKÇI E., KAHRAMAN M. V., ESMER K.  
CHEMICAL PAPERS, vol.67, no.8, pp.1048-1053, 2013 (SCI-Expanded)
- LI. **Fabrication of PLGA Based Tissue Engineering Scaffolds via Photocuring and Salt Leaching Techniques**  
Cicek C., ÇAKMAKÇI E., KAYAMAN APOHAN N., Arslan M., Kuruca S. E.  
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.62, no.14, pp.719-725, 2013 (SCI-Expanded)
- LII. **Preparation and characterization of flame retardant and proton conducting boron phosphate/polyimide composites**  
ÇAKMAKÇI E., Gungor A.  
POLYMER DEGRADATION AND STABILITY, vol.98, no.5, pp.927-933, 2013 (SCI-Expanded)
- LIII. **Properties of Thiol-ene Photocurable Highly Hydrophobic and Oleophobic Nanocomposite Coatings on ABS and HIPS Substrates**  
Mulazim Y., ÇAKMAKÇI E., KAHRAMAN M. V.  
ADVANCES IN POLYMER TECHNOLOGY, vol.32, 2013 (SCI-Expanded)
- LIV. **UV-curable fluorine-containing hybrid coatings via thiol-ene "click" reaction and an in situ sol-gel method**  
ÇAKMAKÇI E., Mulazim Y., KAHRAMAN M. V.  
POLYMER BULLETIN, vol.70, no.3, pp.1037-1048, 2013 (SCI-Expanded)
- LV. **Photo-curable highly water-repellent nanocomposite coatings**  
Mulazim Y., ÇAKMAKÇI E., KAHRAMAN M. V.  
JOURNAL OF VINYL & ADDITIVE TECHNOLOGY, vol.19, no.1, pp.31-38, 2013 (SCI-Expanded)
- LVI. **Alpha-Amylase Immobilization on Epoxy Containing Thiol-Ene Photocurable Materials**  
Çakmakçi E., Daniş Ö., Demir S., Mulazim Y., Kahraman M. V.  
JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY, vol.23, no.2, pp.205-210, 2013 (SCI-Expanded)
- LVII. **Preparation and thermal properties of polyacrylonitrile/hexagonal boron nitride composites**  
MADAKBAŞ S., ÇAKMAKÇI E., KAHRAMAN M. V.  
THERMOCHIMICA ACTA, vol.552, pp.1-4, 2013 (SCI-Expanded)
- LVIII. **Preparation and characterization of boron containing thiol-ene photocured hybrid coatings**  
ÇAKMAKÇI E., Mulazim Y., KAHRAMAN M. V., KAYAMAN APOHAN N.  
PROGRESS IN ORGANIC COATINGS, vol.75, pp.28-32, 2012 (SCI-Expanded)
- LIX. **Identification by RP-HPLC-DAD, FTIR, TGA and FESEM-EDAX of natural pigments prepared from Datisca cannabina L**

Deveoglu O., ÇAKMAKÇI E., Taskopru T., Torgan E., Karadag R.

DYES AND PIGMENTS, vol.94, no.3, pp.437-442, 2012 (SCI-Expanded)

**LX. Preparation and drug release properties of lignin-starch biodegradable films**

Calgeris I., ÇAKMAKÇI E., OGAN A., KAHRAMAN M. V., KAYAMAN APOHAN N.

STARCH-STARKE, vol.64, no.5, pp.399-407, 2012 (SCI-Expanded)

**LXI. Cell Growth on In Situ Photo-Cross-Linked Electrospun Acrylated Cellulose Acetate Butyrate**

ÇAKMAKÇI E., Gungor A., KAYAMAN APOHAN N., Kuruca S. E., Cetin M. B., Dar K. A.

JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.23, no.7, pp.887-899, 2012 (SCI-Expanded)

**LXII. Preparation of photo curable highly hydrophobic coatings using a modified castor oil derivative as a sol-gel component**

Mulazim Y., ÇAKMAKÇI E., KAHRAMAN M. V.

PROGRESS IN ORGANIC COATINGS, vol.72, no.3, pp.394-401, 2011 (SCI-Expanded)

**LXIII. Flame retardant thiol-ene photocured coatings**

ÇAKMAKÇI E., Mulazim Y., KAHRAMAN M. V., Apohan N.

REACTIVE & FUNCTIONAL POLYMERS, vol.71, no.1, pp.36-41, 2011 (SCI-Expanded)

## Articles Published in Other Journals

**I. Asetilkolinesterazın Pirol İçeren Fotokürlenmiş Termosetlere İmmobilizasyonu**

ALI K. K., DEMİR S., ÇAKMAKÇI E., OGAN A.

SDU Journal of Natural and Applied Sciences, vol.27, pp.95-102, 2023 (Peer-Reviewed Journal)

**II. Boron/phosphorus-containing flame-retardant photocurable coatings**

ÇAKMAKÇI E., KAHRAMAN M. V.

RSC Smart Materials, no.13, pp.150-187, 2015 (Scopus)

**III. Poliüretan Kimyası Son Gelişmeler**

ÇAKMAKÇI E., KAHRAMAN M. V.

Putech magazine, 2013 (Non Peer-Reviewed Journal)

**IV. Photocurable highly water repellent coatings on Boro oat glass substrates**

KAHRAMAN M. V., MÜLAZİM Y., ÇAKMAKÇI E.

Society of Plastics Engineers, 2012 (Non Peer-Reviewed Journal)

**V. Katyonik Fotopolimerizasyon ile Hazırlanan Epoksi Silika Nanokompozit Kaplamalar**

ÇAKMAKÇI E., KAYAMAN APOHAN N.

Boyatürk, 2010 (Non Peer-Reviewed Journal)

## Books & Book Chapters

**I. Chapter 9 : Boron/Phosphorus containing flame retarding photocurable coatings**

ÇAKMAKÇI E., KAHRAMAN M. V.

in: Photocured Materials RSC Royal Society of Chemistry Publishing Chapter 9 Boron Phosphorus Containing Flame Retardant Photocurable Coatings, A. Tiwari, A. Polykarpov, Editor, Royal society of Chemistry , Cambridge-UK, Cambridge, pp.150-187, 2015

## Refereed Congress / Symposium Publications in Proceedings

**I. Dimer Diamin ve Hint Yağı Esaslı Bio-Bazlı Poliüretan Köpük ve Hint Yağı Esaslı Alev Geciktirici Hazırlanması**

Nasuhoglu B., ÇAKMAKÇI E., KAHRAMAN M. V.

34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022

- II. **THIOL-ENE PHOTOCURED ADSORBENTS FOR Au(III) ADSORPTION**  
Aracier E. D., AYDIN URUCU O., ÇAKMAKÇI E.  
International Joint Conference on Environmental and Light Industry Technologies, 21 - 22 November 2019
- III. **AMPS-ACMO BASED HYDROGELS FOR METAL RECOVERY FROM AQUEOUS MEDIA**  
ÇAĞLAYAN T., AYDIN URUCU O., ÇAKMAKÇI E.  
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- IV. **REMOVAL OF PIGMENT FROM PRINTING INDUSTRY WASTE WATER USING ADSORPTION BY GELATIN-VINYL PHOSPHONIC ACID (VPA) BASED HYDROGELS**  
Esra Duygu A., AYDIN URUCU O., ÇAKMAKÇI E.  
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- V. **Mırmır Balığından (Lithognathus mormyrus) Kolajen Ekstraksiyonu, Karakterizasyonu ve İlaç Salınım Özelliklerinin İncelenmesi**  
Danış Ö., Demir S., Wafula M. W., Yüce Dursun B., Çakmakçı E.  
30. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kkct), 5 - 08 November 2018
- VI. **Diels-Alder Kiklenebilen Fosfor Modifiye Silika Nanopartülleri İçeren Alev Geciktirici Tiyol-En Fotokürlenmiş Kaplamalar**  
ÇAKMAKÇI E., OKTAY B.  
31. Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019
- VII. **Asetikolin esterazın UV ışınları ile sertleşen glisidil fonksiyonel polimer yüzeyine immobilizasyonu**  
DEMİR S., Aygan A., ÇAKMAKÇI E.  
30. Ulusal Kimya Kongresi, Turkey, 5 - 08 November 2018
- VIII. **Teflon® Alternatif Sol-Jel Esaslı Kaplamaların Hazırlanması ve Yüzey Özelliklerinin Belirlenmesi**  
Uğur M. H., KAYAMAN APOHAN N., ÇAKMAKÇI E., GÜNGÖR A.  
30. Ulusal Kimya Kongresi, Cyprus (Kkct), 5 - 08 November 2018
- IX. **Stokiyometri dışı tiol-en polimerizasyonu ile self-assembly yönteminin buluşması**  
Tınaz H., Eser B., ÇAKMAKÇI E.  
30. ulusal kimya kongresi, Gazimagusa, Cyprus (Kkct), 5 - 08 November 2018
- X. **Asetikolin esterazın İletken Tiyol-Ene Kürlenebilen Filmler Üzerine Immobilizasyonu Ve Asetikolin-Esteraz Biyosensörünün Geliştirilmesi**  
Akgül B., ÇAKMAKÇI E., ORMAN E. B., OGAN A.  
31. Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019
- XI. **Gıda atıklarından kollajen ekstraksiyonu ve kitosan, polihidroksialkanoat kompozitlerinin hazırlanması**  
Odabaş A., Çakmakçı E., Danış Ö.  
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019
- XII. **Production of PHB from waste materials using Bacillus megaterium and development of electrospun composite nanomats**  
Danış Ö., Eser S., Çakmakçı E., Attar A.  
FEBS OPEN BIO, Krakow, Poland, 6 - 11 June 2019
- XIII. **Asetikolin esterazın pirol içeren tiyol-en kürlenebilen filmlere immobilizasyonu**  
OGAN A., Khaled Ali K., ÇAKMAKÇI E.  
30. Ulusal Kimya Kongresi, Magosa, 5 - 08 November 2018
- XIV. **Yeni Tip Azo Boyar Madde Sentezi ve Karakterizasyonu**  
Ertem M., Akbal T., Kanmaz Ş., ÖZER M., ÇAKMAKÇI E.  
30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018
- XV. **Yeni Tip Ir (III) Komplekslerinin Sentezi Ve Karakterizasyonu**  
Kanmaz Ş., Akbal T., Ertem M., ÖZER M., ÇAKMAKÇI E.  
30. ULUSAL KİMYA KONGRESİ, Cyprus (Kkct), 5 - 08 November 2018
- XVI. **Swelling Behaviour of Thiol-Acrylate Based Hydrogels**  
ÇAKMAKÇI E.  
Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Turkey, 9 - 12 September 2018



- XVII. Immobilization of lipase enzyme onto crosslinked hydrogel containing polyvinyl alcohol, gelatin and carboxymethylcellulose**  
DANIŞ Ö., ÖZAYDIN E., ÇAKMAKÇI E., DEMİR S.  
1st International Health Sciences and Life Congress, 2 - 05 May 2018
- XVIII. HDI Trimer Based Fluorine Containing Low Surface Energy Photocured Coatings**  
ÇAKMAKÇI E.  
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XIX. POSS Containing Thiol-Ene/Acrylate Based Photocured Coatings**  
ÇAKMAKÇI E.  
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XX. Electrospinning of poly(vinyl butyral)/polyaniline blend**  
MADAKBAŞ S., BAŞTÜRK E., ÇAKMAKÇI E., KAHRAMAN M. V.  
East West Chemistry Conference, 12 - 14 October 2017
- XXI. Surface and proton conductivity properties of electrospun poly(vinyl butyral)/polyaniline nanofibers**  
BAŞTÜRK E., ÇAKMAKÇI E., MADAKBAŞ S., KAHRAMAN M. V.  
EastWest Chemistry Conference 2017, üsküp, Macedonia, 12 - 14 October 2017
- XXII. Dielectric Properties of PANI/h-BN Composites**  
MADAKBAŞ S., ÇAKMAKÇI E.  
ICPMSE 2017, Porto, Portugal, 21 - 26 July 2017
- XXIII. Immobilization of pectinase via click reaction on amberlite XAD-4 resins**  
Çakmakçı E., Daniş Ö., Hocaoğlu D., Yüce Dursun B., Demir S.  
3rd International Conference on New Trends in Chemistry, Helsinki, Finland, 28 - 30 April 2017
- XXIV. Extraction of collagen from food waste and the preparation of polyhydroxyalkanoate composites**  
DANIŞ Ö., WAFULA M., YÜCE DURSUN B., DEMİR S., ÇAKMAKÇI E.  
3rd International Conference on New Trends in Chemistry, 28 April - 30 July 2017
- XXV. Antibody immobilization onto amine functional magnetic nanoparticles**  
MUHSİR M. P., YÜCE DURSUN B., DANIŞ Ö., DEMİR S., ÇAKMAKÇI E.  
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- XXVI. Immobilization of Lipase onto thiol ene photocured polymeric coatings**  
ÇAKMAKÇI E., Muhsir P., DEMİR S.  
28.Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016
- XXVII. UV Curable Urethane Acrylate Phosphorylated Nano Diamond Nanocomposites**  
BEYLER ÇİĞİL A., ÇAKMAKÇI E., KAHRAMAN M. V.  
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- XXVIII. Release studies of Rifampicin from Extremely Halophilic Archaeon Haloarcula 2TK2**  
BAKIR C., ATTAR A., OGAN A., DEMİR S., ÇAKMAKÇI E., DANIŞ Ö., BİRBİR M.  
International Symposium on Molecular Chemistry, 18 - 19 December 2014
- XXIX. Phosphorylated nano-diamond/Polyimide Nanocomposites**  
Beyler-Cigil A., ÇAKMAKÇI E., KAHRAMAN M. V.  
2nd International Conference on Structural Nano Composites (NANOSTRUC), Madrid, Spain, 20 - 21 May 2014, vol.64
- XXX. Phosphonium modified clay/polyimide nanocomposites**  
Ceylan H., ÇAKMAKÇI E., Beyler-Cigil A., KAHRAMAN M. V.  
2nd International Conference on Structural Nano Composites (NANOSTRUC), Madrid, Spain, 20 - 21 May 2014, vol.64
- XXXI. Proton Conducting Polyimide Composites**  
ÇAKMAKÇI E., Güngör A.  
IUPAC 44th World Chemistry Congress, 11 - 16 August 2013
- XXXII. Synthesis of functionalized polyimide oligomers and their sol gel coatings**  
Uğur M. H., ÇAKMAKÇI E., Güngör A.

Paintistanbul-Paint & Coatings Industry, Raw Materials, Auxiliary Products Exhibition & Congress, 13 September 2012 - 15 September 2013

**XXXIII. Magnetic Nanoparticle Included Biodegradable Smart Hydrogels**

Biçer T., ÇAKMAKÇI E., DEMİR S., KAYAMAN APOHAN N.

IUPAC 44th World Chemistry Congress, 11 - 16 August 2013

**XXXIV. Thermal Properties of Thermoplastic Polyurethane Nano hBN composites**

Çakır S., ÇAKMAKÇI E., DURMUŞ A., KAHRAMAN M. V.

IUPAC 44th World Chemistry Congress, 11 - 16 August 2013

**XXXV. Electrochemical Characterization of PVDF HFP Microporous Gel Polymer Electrolytes for Secondary Batteries**

Zeytuni E., Uğur M. H., ÇAKMAKÇI E., Güngör A.

European Polymer Congress, 16 - 21 June 2013

**XXXVI. Poly (alpha-Hydroxy Ester-Urethane) Based Electrospun Biomaterials for Tissue Engineering**

KAYAMAN APOHAN N., ÇAKMAKÇI E., Cicek C., KAHRAMAN M. V., Arslan M., Kuruca S. E.

11th International Conference on Chemical and Process Engineering (ICheaP), Milan, Italy, 2 - 05 June 2013, vol.32, pp.1087-1092

**XXXVII. Alpha-amylase Immobilization on Modified Polyimide Material**

Beyler-Cigil A., ÇAKMAKÇI E., DANIŞ Ö., DEMİR S., KAHRAMAN M. V.

11th International Conference on Chemical and Process Engineering (ICheaP), Milan, Italy, 2 - 05 June 2013, vol.32, pp.1687-1692

**XXXVIII. Flame Retardant Polyacrylonitrile Hexagonal Boron Nitrite Composites**

MADAKBAŞ S., KAHRAMAN M. V., ÇAKMAKÇI E.

PAINT 2012, İstanbul, Turkey, 13 - 15 September 2012

**XXXIX. Flame retardant polyacrylonitrile hexagonal boron nitride PAN h BN composites**

MADAKBAŞ S., ÇAKMAKÇI E., KAHRAMAN M. V.

Paint İstanbul 2012., 13 - 15 September 2012

**XL. Preparation and characterization of thiol ene photocurable fluorine and nano alumina containing hybrid coatings**

ÇAKMAKÇI E., MÜLAZİM Y., KAHRAMAN M. V.

Paint İstanbul 2012., 13 - 15 September 2012

**XLI. Poliakrilonitril PAN Kil Kompozitlerin Yapısal ve Fiziksel Özelliklerinin İncelenmesi**

MADAKBAŞ S., KAHRAMAN M. V., ESMER K., ÇAKMAKÇI E., ÇELİK Z.

4.Ulusal Polimer Teknoloji Kongresi, Çanakkale, Turkey, 5 - 08 September 2012

**XLII. Electrochemical Characterization of PVDF Based Polymer Electrolytes for Secondary Batteries**

Zeytuni E., Uğur M. H., ÇAKMAKÇI E., Güngör A.

4th EuCheMS Chemistry Congress, 26 - 30 August 2012

**XLIII. Polipirol kil kompozitlerin Sentezi ve karakterizasyonu**

ÇAKMAKÇI E., MADAKBAŞ S., KAHRAMAN M. V., ESMER K., ERİM C.

III. Fiziksel Kimya Günleri. Balıkesir, Balıkesir, Turkey, 12 - 15 July 2012

**XLIV. Preparation and characterization of IPTES functionalized PVB nanofibers**

Macit C., ÇAKMAKÇI E., Güngör A.

IUPAC MACRO2012 World Polymer Congress, 24 - 29 June 2012

**XLV. Preparation and characterization of IPTES functionalized PVB nanofibers T041**

MACİT C., ÇAKMAKÇI E., KAHRAMAN M. V.

World Polymer Congress-Macro 2012, USA, June 24-29, 24 - 29 June 2012

**XLVI. Proton and Ionic conducting non woven aramid fabric**

ÇAKMAKÇI E., Uğur M. H., Güngör A.

16th International Meeting on Lithium Batteries, 17 June 2012 - 22 June 2013

**XLVII. An investigation on the pigments obtained from Thyme plant**

DEVEOĞLU O., ÇAKMAKÇI E., Torgan E., Muhammed A., Fouad A., KARADAĞ R.

International Conference Medicinal and Aromatic Plants in Generating New Values in 21st Century, 9 - 12

November 2011

**XLVIII. Novel photocurable PVB resin for glass lamination**

Macit C., ÇAKMAKÇI E., Güngör A.

Radtech Europe 11, 18 - 20 October 2011

**XLIX. MUHABBET ÇİÇEĞİ Reseda luteola L ve MAZI MEŞESİ Quercus infectoria Olivier BİTKİLERİNDEN ÜRETİLEN DOĞAL PİGMENTLERİN HPLC FTIR VE TGA ANALİZİ**

DEVEOĞLU O., ÇAKMAKÇI E., Torgan E., KARADAĞ R.

III. Ulusal Anorganik Kimya Kongresi, Turkey, 19 - 22 May 2011

**L. Photo curable castor oil based highly hydrophobic coatings**

MÜLAZİM Y., ÇAKMAKÇI E., KAHRAMAN M. V., KAYAMAN APOHAN N.

4th Workshop on Fats and Oils as Renewable Feedstock for the Chemical Industry. March 20-22, 2011 Karlsruhe, Germany, 20 - 22 March 2011

**LI. In vitro Culture of Endothelial and Fibroblast Cells on Photocrosslinked Electrospun Acrylated Cellulose Acetate Butyrate**

ÇAKMAKÇI E., KAYAMAN APOHAN N., KURUCA D. S., Çetin M. B., KARADENİZLİ S., Dar K. A.

6th international congress of pathophysiology, 22 - 25 September 2010

## Supported Projects

Kahraman M. V., Çakmakçı E., Project Supported by Higher Education Institutions, İsosorbid Esaslı Işık İle Kuruyabilen Kaplamaların Geliştirilmesi, 2017 - 2019

Ogan A., Ali K., Çakmakçı E., Project Supported by Higher Education Institutions, Asetilkolinesterazın farklı polimerik yüzeylere immobilizasyonu, 2017 - 2018

Demir S., Çakmakçı E., Aygan A., Project Supported by Higher Education Institutions, Asetilkolinesterazın UV ışınları ile sertleşen glisidil fonksiyonel polimer yüzeyine immobilizasyonu, 2017 - 2018

Çakmakçı E., TUBITAK Project, Işıklı Kuruyabilen Düşük Yüzey Enerjili Kaplamalar, 2017 - 2018

Güngör A., Çakmakçı E., Project Supported by Higher Education Institutions, Yakıt pili uygulamaları için poliimid esaslı yüksek performanslı yeni polimerik membranların geliştirilmesi, 2011 - 2013

Kahraman M. V., Kayaman Apohan N., Çakmakçı E., Mülazım Y., Project Supported by Higher Education Institutions, Hidrofobik kaplamaların geliştirilmesi ve karakterizasyonu, 2010 - 2012

Kayaman Apohan N., Çakmakçı E., Kahraman M. V., Project Supported by Higher Education Institutions, Biyoparçalanabilir Poli a hidroksi ester ürethan esaslı yapı iskelelerinin geliştirilmesi, 2010 - 2012

## Patent

Güngör A., Çakmakçı E., Perfloroalkil grubu içeren difenil fosfin oksit türevleri ve elde edilme yöntemleri, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2014/01510 , Standard Registration, 2016

## Activities in Scientific Journals

Journal of the Turkish Chemical Society, Section A: Chemistry, Editor, 2020 - Continues

## Metrics

Publication: 121

Citation (WoS): 807

Citation (Scopus): 831

H-Index (WoS): 17

H-Index (Scopus): 18

## **Congress and Symposium Activities**

31. Ulusal Kimya Kongresi, Moderator, İstanbul, Turkey, 2019

INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Moderator, Ankara, Turkey, 2018

## **Awards**

Çakmakçı E., 2017 Yılı Akademik Teşvik Değerlendirme Ödülü-Fen Bölümleri Yayın, Marmara Üniversitesi, May 2018

Çakmakçı E., 2016 Yılı Akademik Teşvik Değerlendirme Ödülü-Fen Bölümleri Atf , Marmara Üniversitesi, May 2017

Çakmakçı E., 2016 Yılı Akademik Teşvik Değerlendirme Ödülü\_Fen Bölümleri Patent, Marmara Üniversitesi, May 2017

Çakmakçı E., 2015 Yılı Akademik Teşvik Ödülü-Fen Bölümleri-Yayın, Marmara Üniversitesi, May 2016