

## Prof. UĞUR CENGİZ



### Personal Information

**Office Phone:** [+90 286 218 0018](tel:+902862180018) Extension: 21053

**Fax Phone:** [+90 286 218 0541](tel:+902862180541)

**Email:** [ucengiz@comu.edu.tr](mailto:ucengiz@comu.edu.tr)

**Other Email:** [ugurcengiz79@hotmail.com](mailto:ugurcengiz79@hotmail.com)

**Web:** <https://avesis.comu.edu.tr/ucengiz>

**Address:** Çanakkale Onsekiz Mart Üniversitesi, Terzioğlu Kampüsü, Mühendislik Fakültesi, Kimya Mühendisliği bölümü (Yeni Bina), Oda No: 427, ÇANAKKALE

### International Researcher IDs

ORCID: 0000-0002-0400-3351

Publons / Web Of Science ResearcherID: F-6410-2011

ScopusID: 37064299600

Yoksis Researcher ID: 2390

### Education Information

Doctorate, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü / Kimyasal Teknolojiler Abd, Turkey 2006 - 2012

Postgraduate, Akdeniz University, Faculty Of Science, Kimya / Fizikokimya, Turkey 2003 - 2005

Undergraduate, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, Turkey 1998 - 2002

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Süper kritik karbondioksit ortamında sentezlenen fluroakrilat kopolimerlerden süperhidrofobik, süperoleofobik yüzey ve sıvı bilya eldesi ve uygulamaları, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği / Kimyasal Teknolojiler Abd, 2012

Postgraduate, Nikel (II) – Tiyosiyanat Komplekslerinin Ardışık Oluşum Sabitlerinin Belirlenmesi, Akdeniz University, Fen Fakültesi, Kimya / Fizikokimya, 2005

### Research Areas

Chemistry, Physical Chemistry, Characterization of Polymers, New Technologies in Polymer Chemistry, Polymeric Complexes, Polymeric Materials, Surface Chemistry, Aeronautical Engineering, Material Technologies, Paints and Coatings, Chemical Engineering and Technology, Biotechnology, Chemical Technologies, Polymer Technology, Metallurgical and Materials Engineering, Material science and engineering, Ceramic Materials, Optical Properties, Mechanical Properties, Corrosion and Corrosion Protection, Composites, Cement and Concrete, Glass Technology and Glass Ceramics, Polymeric Materials, Biomaterials, Plating, Material Characterization, Nanomaterials, Thermal Properties,

Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2024 - Continues  
Associate Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - 2024  
Assistant Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2018 - 2020  
Assistant Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2012 - 2018  
Research Assistant, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği , 2006 - 2012

## Academic and Administrative Experience

Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2024 - Continues  
Head of Department, Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Fen Bilimleri Enstitüsü, 2023 - Continues  
Deputy Director of Research Institute, Canakkale Onsekiz Mart University, -----, Enerji Kaynakları Uygulama ve Araştırma Merkezi, 2020 - 2024  
Deputy Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2015 - 2024  
Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2012 - 2013

## Courses

### Postgraduate

İleri Taşınım Olayları-II, Postgraduate, 2017 - 2018  
Jeopolimer ve Endüstriyel Uygulamaları, Postgraduate, 2018 - 2019  
İleri Akışkanlar Mekaniği, Postgraduate, 2017 - 2018  
İleri Taşınım Olayları I, Postgraduate, 2017 - 2018  
Yüzey Termodinamiği, Postgraduate, 2016 - 2017  
Mühendislik Termodinamiği-II, Postgraduate, 2016 - 2017  
Isı Yalıtımı ve Bina Uygulaması, Postgraduate, 2017 - 2018  
Polimer Kimyası ve Teknolojisi, Postgraduate, 2016 - 2017  
Mühendislik Termodinamiği-II, Postgraduate, 2015 - 2016  
Polimer Kimyası ve Teknolojisi, Postgraduate, 2016 - 2017  
Yüzey Termodinamiği, Postgraduate, 2015 - 2016  
Kapilerite ve Islanma, Postgraduate, 2015 - 2016  
Polimer Kimyası ve Teknolojisi, Postgraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013  
Kapilarite ve Islanma, Postgraduate, 2014 - 2015  
Mühendislik Termodinamiği-II, Postgraduate, 2014 - 2015, 2013 - 2014  
Mühendislik Termodinamiği-I, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Yüzey Fizikokimyası, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Yüzey Termodinamiği, Postgraduate, 2014 - 2015, 2013 - 2014

### Undergraduate

Termodinamik, Undergraduate, 2018 - 2019, 2017 - 2018  
Akışkanlar Mekaniği, Undergraduate, 2016 - 2017  
Kimya, Undergraduate, 2016 - 2017  
Akışkanlar Mekaniği, Undergraduate, 2016 - 2017  
Akışkanlar Mekaniği, Undergraduate, 2017 - 2018  
Termodinamik, Undergraduate, 2016 - 2017

Proses Kontrol, Undergraduate, 2016 - 2017  
Kimya, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015  
Akışkanlar Mekaniği, Undergraduate, 2016 - 2017  
Akışkanlar Mekaniği, Undergraduate, 2015 - 2016  
Kimya, Undergraduate, 2016 - 2017  
Termodinamik, Undergraduate, 2015 - 2016  
Proses Kontrol, Undergraduate, 2016 - 2017  
Termodinamik, Undergraduate, 2014 - 2015  
Akışkanlar Mekaniği, Undergraduate, 2014 - 2015, 2013 - 2014  
Proses Kontrol, Undergraduate, 2015 - 2016  
Proses Kontrol, Undergraduate, 2014 - 2015  
Termodinamik, Undergraduate, 2013 - 2014  
Akışkanlar Mekaniği, Undergraduate, 2012 - 2013

## Supervised Theses

Cengiz U., Kendi Kendini Temizleyen, Anti Bakteriye ve Isı Yalıtım Özelliği Olan Jeopolimer Karo Üretimi, Doctorate, G.Akarken(Student), Continues  
Cengiz U., Gemi Yüzeylerinde Yosun Yapışmasını ve Enerji Tüketimini Azaltmak İçin Çevre Dostu Biyolojik Olarak Kirlenmeyen Kaplama Geliştirilmesi, Doctorate, S.Nur(Student), Continues  
Cengiz U., Arslan Y. E., skCO<sub>2</sub> ile Hüresizleştirilmiş Sığır Spinal Meninks Kaynaklı Hidrojellerden Doku Mühendisliği için İletken Biyomalzemelerin Üretimi ve Karakterizasyonu, Doctorate, E.Özüğdoğru(Student), Continues  
Cengiz U., Fabrication and characterization of transparent Ormosil superhydrophilic surface by investigation of underwater superoleophobic performance, Postgraduate, F.Gülçin(Student), Continues  
Cengiz U., Investigation of the surface free energy and roughness effect on the underwater oil contact angle, Postgraduate, E.Köseoğlu(Student), 2023  
Cengiz U., Modeling of Solar Power Plant on the roof of the building for Çanakkale Region with PVsyst program and evaluation of actual production data by comparison, Postgraduate, M.Kemal(Student), 2023  
Cengiz U., Fabrication of UV protected antifog glass surface, Postgraduate, A.Kortun(Student), 2023  
Cengiz U., Isı yalıtımı ve Yanmazlık Özelliği olan Fiber Takviyeli Jeopolimerik Levha Üretimi, Postgraduate, T.Gezer(Student), 2022  
Cengiz U., Çözelti ortamında sentezlenen silan içerikli terpolimerlerinden süper-hidrofobik yüzey sentezi, Postgraduate, U.DURGUT(Student), 2020  
Cengiz U., Yangın geciktirici jeopolimer malzeme üretimi ve karakterizasyonu, Postgraduate, G.Akarken(Student), 2019  
Cengiz U., Floro-Stiren kopolimerleri kullanarak faz ayrımı tekniği ile süperhidrofobik yüzey sentezi, Postgraduate, Ö.Ünzal(Student), 2019  
Cengiz U., Beton Çelik Çubuklarının Mekanik Deformasyon Davranışlarının ve Depreme Dayanıklılığının İncelenmesi ve Geliştirilmesi, Postgraduate, C.Karpuzoğlu(Student), 2019  
Cengiz U., Polimerik lif katkı güçlendirilmiş jeopolimer kompozit malzeme üretimi, Postgraduate, B.Kartal(Student), 2019  
Cengiz U., KENDİ KENDİNİ TEMİZLEYEN SÜPERHİDROFOBİK CAM VE SERAMİK YÜZEYLERİN SENTEZİ, Postgraduate, M.Kınal(Student), 2018  
Cengiz U., DİNAMİK OLARAK YAĞ İTİCİ SERAMİK YÜZEYLERİN SENTEZİ, Postgraduate, E.Erdoğan(Student), 2018  
Cengiz U., KENDİ KENDİNİ TEMİZLEYEN DİNAMİK YAĞ İTİCİ YÜZEYLERİN SENTEZİ, Postgraduate, Ö.Mutlu(Student), 2017  
Cengiz U., Jeopolimerizasyon Mekanizmasında Kullanılan Metakaolen'in Fiziksel ve Kimyasal Özelliklerinin Nem Kontrollü Karo Üretimi Üzerine Etkisi, Postgraduate, Y.Yıldırım(Student), 2016  
Cengiz U., Solgel yöntemi ile tek adımda Superhidrofilik poli(hidroksi etil metakrilat) +Tetraetoksilsilan kompozit malzeme sentezi, Postgraduate, A.Senem(Student), 2015

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

- I. **Fabrication of superhydrophobic sorbent material via in-situ coating of melamine sponge with halloysite nanotube and fluoroalkylsilane using supercritical CO<sub>2</sub> coating system for efficient oily water treatment**  
DUMAN O., CENGİZ U., ÖZCAN DİKER C., Güreşir S. M., TUNÇ S., Cengiz C.  
Separation and Purification Technology, vol.360, 2025 (SCI-Expanded)
- II. **Innovative Geopolymer Tiles for Indoor Humidity Control: A Comparative Study of Moisture Buffering Performance**  
Akarken G., Yildirim Y., Cengiz U.  
ACS OMEGA, vol.10, no.9, pp.9197-9209, 2025 (SCI-Expanded)
- III. **Development of a superhydrophobic and superoleophilic halloysite nanotube/phenyltriethoxysilane-coated melamine sponge sorbent material with high performance in supercritical CO<sub>2</sub> atmosphere for the selective and effective oil spill cleanup and oil-water separation**  
DUMAN O., Cengiz C., ÖZCAN DİKER C., CENGİZ U., Güreşir S. M., TUNÇ S.  
Journal of Environmental Management, vol.373, 2025 (SCI-Expanded)
- IV. **Synthesis, Hydrolytic Degradation Behavior, and Surface Properties of Poly(alkyl glycolide)-Polyglycolide Copolymers**  
Bamyacı M. C., Çetin D., Cengiz C., Belen S. N., MERT O., CENGİZ U., MERT S.  
ACS Omega, 2025 (SCI-Expanded)
- V. **Self-cleaning superhydrophobic polyester resin production for gel coat applications**  
Akarken G., CENGİZ U., Ozturk N., Balkaner C.  
Progress in Organic Coatings, vol.198, 2025 (SCI-Expanded)
- VI. **Supercritical CO<sub>2</sub>-Mediated Decellularization of Bovine Spinal Cord Meninges: A Comparative Study for Decellularization Performance**  
Özüdoğru E., Kurt T., Derkuş B., Cengiz U., Arslan Y. E.  
ACS Omega, vol.9, no.49, pp.48781-48790, 2024 (SCI-Expanded)
- VII. **Symmetric star poly(substituted glycolide) homopolymers and their surface properties**  
Çolak Y., Belen S. N., Çetin D., Cengiz U., Mert O.  
Polymer Chemistry, vol.16, no.3, pp.317-330, 2024 (SCI-Expanded)
- VIII. **Effect of alkoxy silane chain length on the surface, stability, sorption and oil-water separation properties of novel superhydrophobic porous sorbent materials produced using innovative drainage technique in scCO<sub>2</sub> atmosphere**  
DUMAN O., Cengiz C., ÖZCAN DİKER C., CENGİZ U., Güreşir S. M., TUNÇ S.  
Separation and Purification Technology, vol.345, 2024 (SCI-Expanded)
- IX. **Designing Effective Underwater Self-Cleaning Surfaces by Investigating the Oil Dewetting Ability of Hydrophobic and Underwater Superoleophobic Poly(Diisobutyl Glycolide)-Silica Composite Surfaces**  
Belen S. N., Arıcan M. O., Mert O., Cengiz U.  
Surfaces and Interfaces, vol.44, pp.1-9, 2024 (SCI-Expanded)
- X. **Superhydrophobic melamine sponge-sorbent fabricated using WS<sub>2</sub>, halloysite nanotube, octyltriethoxysilane, tetraethoxysilane, and polydimethylsiloxane for the selective uptake of oil from water**  
DUMAN O., Diker C. Ö., Güreşir S. M., CENGİZ U., TUNÇ S.  
Journal of Water Process Engineering, vol.56, 2023 (SCI-Expanded)
- XI. **Fabrication of superhydrophobic melamine sponge composite sorbent in supercritical carbon dioxide atmosphere for selective and effective oil removal from water**  
Duman O., Cengiz U., Diker C. Ö., Cengiz C., Güreşir S. M., Tunç S.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.11, no.6, pp.1-16, 2023 (SCI-Expanded)
- XII. **Development of plant-based biopolymer coatings for 3D cell culture: boron-silica-enriched quince seed mucilage nanocomposites**

- Yilmaz H. D., Cengiz U., Derkus B., Arslan Y. E.  
Biomaterials Science, vol.11, no.15, pp.5320-5336, 2023 (SCI-Expanded)
- XIII. **Fabrication and characterization of metakaolin-based fiber reinforced fire resistant geopolymer**  
Akarken G., CENGİZ U.  
Applied Clay Science, vol.232, 2023 (SCI-Expanded)
- XIV. **PEG-functionalized carbazole-based polymers for UV-protected hydrophilic glass coatings**  
ALTINIŞIK S., Kortun A., Nazlı A., CENGİZ U., KOYUNCU S.  
Progress in Organic Coatings, vol.175, 2023 (SCI-Expanded)
- XV. **Synthesis and investigation of small g-values for smart spinel ferrite nanoparticles**  
Bayrakdar H., Yalcin O., Özüm S., Cengiz U.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.869, 2021 (SCI-Expanded)
- XVI. **From a plant secretion to the promising bone grafts: Cryogels of silicon-integrated quince seed mucilage by microwave-assisted sol-gel reaction**  
YILMAZ H. D., CENGİZ U., ARSLAN Y. E., Kiran F., Ceylan A.  
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.131, no.4, pp.420-433, 2021 (SCI-Expanded)
- XVII. **Mechanically stable superhydrophilic antifog surface by microwave assisted sol-gel method**  
Okkay H., Sat S., Cengiz U.  
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.120, pp.360-367, 2021 (SCI-Expanded)
- XVIII. **Bioplastic Production from Microalgae: A Review**  
Cinar S. O., Chong Z. K., KÜÇÜKER M. A., Wieczorek N., CENGİZ U., Kuchta K.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, vol.17, no.11, 2020 (SCI-Expanded)
- XIX. **Solvent-Free Synthesis of a Superamphiphobic Surface by Green Chemistry**  
Ozbay S., Cengiz U., Erbil H. Y.  
ACS APPLIED POLYMER MATERIALS, vol.1, no.8, pp.2033-2043, 2019 (SCI-Expanded)
- XX. **Fabrication and application of superhydrophilic antifog surface by sol-gel method**  
KAYA LİN A., CENGİZ U.  
PROGRESS IN ORGANIC COATINGS, vol.126, pp.75-82, 2019 (SCI-Expanded)
- XXI. **Preparation of stable, transparent superhydrophobic film via one step one pot sol-gel method**  
TOPCU A. S. K., Erdoğan E., CENGİZ U.  
COLLOID AND POLYMER SCIENCE, vol.296, no.9, pp.1523-1532, 2018 (SCI-Expanded)
- XXII. **The effect of pattern sizes on oleophobicity and superhydrophobicity of micropatterned surfaces**  
CENGİZ U., Cansoy C. E.  
PROGRESS IN ORGANIC COATINGS, vol.101, pp.530-536, 2016 (SCI-Expanded)
- XXIII. **Superhydrophobic-electrochromic PEDOT/PFHP bilayer surfaces**  
Caglar A., Yildirim M., CENGİZ U., KAYA İ.  
THIN SOLID FILMS, vol.619, pp.187-194, 2016 (SCI-Expanded)
- XXIV. **Superhydrophobic perfluoropolymer/polystyrene blend films induced by nonsolvent**  
Gengec N. A., Cengiz U., ERBİL H. Y.  
APPLIED SURFACE SCIENCE, vol.383, pp.33-41, 2016 (SCI-Expanded)
- XXV. **Fabrication of superhydrophobic and highly oleophobic electrochromic composite surfaces**  
Yildirim M., Demir G. E., Caglar A., CENGİZ U., KAYA İ.  
PROGRESS IN ORGANIC COATINGS, vol.97, pp.254-260, 2016 (SCI-Expanded)
- XXVI. **Multilayer electrochromic surfaces derived from conventional conducting polymers: Optical and surface properties**  
Demir G. E., Yildirim M., CENGİZ U., KAYA İ.  
REACTIVE & FUNCTIONAL POLYMERS, vol.97, pp.63-68, 2015 (SCI-Expanded)
- XXVII. **Applicability of Cassie-Baxter equation for superhydrophobic fluoropolymer silica composite films**  
CENGİZ U., Cansoy C. E.  
APPLIED SURFACE SCIENCE, vol.335, pp.99-106, 2015 (SCI-Expanded)
- XXVIII. **Effect of deposition charges on the wettability performance of electrochromic polymers**

- ÇAĞLAR A., CENGİZ U., Yildirim M., KAYA İ.  
APPLIED SURFACE SCIENCE, vol.331, pp.262-270, 2015 (SCI-Expanded)
- XXIX. **Comparison effects and electron spin resonance studies of alpha-Fe<sub>2</sub>O<sub>4</sub> spinel type ferrite nanoparticles**  
Bayrakdar H., Yalcin O., CENGİZ U., Ozum S., Anigi E., TOPEL Ö.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.132, pp.160-164, 2014 (SCI-Expanded)
- XXX. **Perfluoromethacrylate-styrene statistical copolymers synthesized in CO<sub>2</sub>-expanded monomers**  
Cengiz U., Erbil H. Y.  
COLLOID AND POLYMER SCIENCE, vol.292, no.9, pp.2207-2215, 2014 (SCI-Expanded)
- XXXI. **Superhydrophobic perfluoropolymer surfaces having heterogeneous roughness created by dip-coating from solutions containing a nonsolvent**  
Cengiz U., Erbil H. Y.  
APPLIED SURFACE SCIENCE, vol.292, pp.591-597, 2014 (SCI-Expanded)
- XXXII. **The effect of perfluoroalkyl and hydrocarbon liquid chain lengths on oleophobic behaviors of copolymer surfaces**  
Cansoy C. E., CENGİZ U.  
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.441, pp.695-700, 2014 (SCI-Expanded)
- XXXIII. **Surface characterization of flat and rough films of perfluoromethacrylate-methylmethacrylate statistical copolymers synthesized in CO<sub>2</sub>-expanded monomers**  
Cengiz U., Gengec N. A., Erbil H. Y.  
COLLOID AND POLYMER SCIENCE, vol.291, no.3, pp.641-652, 2013 (SCI-Expanded)
- XXXIV. **The lifetime of floating liquid marbles: the influence of particle size and effective surface tension**  
CENGİZ U., Erbil H. Y.  
SOFT MATTER, vol.9, no.37, pp.8980-8991, 2013 (SCI-Expanded)
- XXXV. **Superhydrophobic terpolymer nanofibers containing perfluoroethyl alkyl methacrylate by electrospinning**  
Cengiz U., Avci M. Z., Erbil H. Y., Sarac A. S.  
APPLIED SURFACE SCIENCE, vol.258, no.15, pp.5815-5821, 2012 (SCI-Expanded)
- XXXVI. **Mechanical and thermal properties of perfluoroalkyl ethyl methacrylate-methyl methacrylate statistical copolymers synthesized in supercritical carbon dioxide**  
Cengiz U., Gengec N. A., Kaya N. U., Erbil H. Y., Sarac A. S.  
JOURNAL OF FLUORINE CHEMISTRY, vol.132, no.5, pp.348-355, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Hydrothermal Synthesis of CuO Nanoparticles: Tailoring Morphology and Particle Size Variations for Enhanced Properties**  
Akarken G., CENGİZ U., BEKTAŞ T. E.  
Journal of advanced research in natural and applied sciences (Online), 2024 (Peer-Reviewed Journal)
- II. **Fabrication of Self-Cleaning Perfluoroacrylate Blend Films by Spray Coating Method**  
Ünzal Ö., Belen S. N., Cengiz U.  
Journal of advanced research in natural and applied sciences (Online), vol.9, no.1, pp.158-166, 2023 (Peer-Reviewed Journal)
- III. **Production and characterization of heat retardant fiber-reinforced geopolymer plates**  
Gezer T., Akarken G., Cengiz U.  
Journal of sustainable construction materials and technologies (Online), vol.7, no.4, pp.282-290, 2022 (Peer-Reviewed Journal)
- IV. **Fabrication of Superhydrophilic TEOS-Lactic acid Composite Films and Investigation of Biofouling**

## Behaviour

Ervan T., KÜÇÜKER M. A., CENGİZ U.

Journal of sustainable construction materials and technologies (Online), vol.7, no.4, pp.316-321, 2022 (Peer-Reviewed Journal)

V. **Synthesis of Silica-Based Boron-Incorporated Collagen/Human Hair Keratin Hybrid Cryogels with the Potential Bone Formation Capability**

Cal F., Sezgin Arslan T., Derkus B., Kiran F., Cengiz U., Arslan Y. E.

ACS APPLIED BIO MATERIALS, vol.4, no.9, pp.7266-7279, 2021 (ESCI)

VI. **Relationship between contact angle hysteresis and work of adhesion of oil droplets on perfluoromethacrylatestyrene thin films**

CENGİZ U., CANSOY C. E.

Journal of the Turkish Chemical Society, Section A: Chemistry, vol.2, no.2, pp.109-112, 2015 (Peer-Reviewed Journal)

## Books

I. **Understanding Biofilm Structure On Anti-Biofouling Coating For Chlorella Vulgaris**

KÜÇÜKER M. A., Güneş K., Durmaz F. G., CENGİZ U.

in: Cooperation for Climate and Green Deal Book, Ardali, Yüksel, Editor, Ondokuz Mayıs Üniversitesi Yayınları, Samsun, pp.793-798, 2023

## Papers Published in Refereed Scientific Meetings

I. **Production of amphiphilic and underwater superoleophobic polymer using sol-gel technique**  
Cengiz U., Belen S. N.

22nd international Sol-Gel conference, Berlin, Germany, 1 - 06 September 2024, pp.307-308

II. **Decellularization of bovine spinal cord meninges via supercritical CO<sub>2</sub> and evaluating the extracellular matrix performance for neural tissue engineering applications**

Kurt T., Özüdoğru E., Cengiz U., Derkuş B., Arslan Y. E.

7th TERMIS WORLD CONGRESS 2024, Washington, United States Of America, 25 - 28 June 2024, pp.267

III. **Superhydrophobic Sorbent Materials Fabricated under scCO<sub>2</sub> Atmosphere for the Selective Separation of Oil-Water Mixtures: Effect of Sorbent Density and Porosity on the Sorption Capacity, Separation Efficiency and Flux Values**

DUMAN O., CENGİZ U., ÖZCAN DİKER C., Güreşir S. M., TUNÇ S., CENGİZ C.

5. International Environmental Chemistry Congress, Antalya, Turkey, 30 October - 02 November 2023

IV. **Selective Sorption of Oil and Organic Solvent Spills from Water by Inorganic-Organic Hybrid Material: Sorption Kinetics, and Stability, Durability and Reusability Studies**

DUMAN O., Güreşir S. M., ÖZCAN DİKER C., CENGİZ U., TUNÇ S., CENGİZ C.

5. International Environmental Chemistry Congress, Antalya, Turkey, 30 October - 02 November 2023

V. **Superhydrophobic Sponge-Based Sorbent Material for the Selective Removal of Oils from Oil-Water Mixtures**

ÖZCAN DİKER C., DUMAN O., Güreşir S. M., CENGİZ U., TUNÇ S., CENGİZ C.

5. International Environmental Chemistry Congress, Antalya, Turkey, 30 October - 02 November 2023

VI. **Superhydrophobic Composite Sorbent Prepared from Sponge, Inorganic Mineral and Alkoxysilane with Long Chain Length for Highly Selective Diesel Recovery from Diesel-Water Mixtures**

TUNÇ S., DUMAN O., CENGİZ U., ÖZCAN DİKER C., Güreşir S. M., CENGİZ C.

5. International Environmental Chemistry Congress, Antalya, Turkey, 30 October - 02 November 2023

VII. **Süperhidrofobik UV-Absorber Yüzey Üretimi**

Belen S. N., CENGİZ U., KOYUNCU S.



15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023
- VIII. **Süperkritik Karbon Dioksit Ortamında Su İtici/Yağ Çekici Kompozit Sünger Malzeme Üretimi ve Bu Malzemenin Sudaki Yağlı Kirletici Maddeyi Seçimli Şekilde Giderme Performansı**  
CENGİZ U., DUMAN O., ÖZCAN DİKER C., CENGİZ C., Güreşir S. M., TUNÇ S.  
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023
- IX. **Borulu Isı Değiştiricisinde Soğutucu Olarak Kullanılacak CuO Nanoakışkanın Üretimi ve Karakterizasyonu**  
Akarken G., CENGİZ U., BEKTAŞ T. E.  
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023
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- XII. **Investigation of Biofilm Structures of Chlorella Vulgaris and Ectlia Oleoabundans Species on an Anti-Biofouling Coating**  
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- XVIII. **Fabrication of transparent superhydrophobic surface by supercritical CO2 medium**  
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- XX. **pH-Sensitive Liquid Marbles**  
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- XXI. **FABRICATION AND CHARACTERIZATION OF MAGNETIC NANOPARTICLE-POLYMER COMPOSITE MATERIALS**



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- XXVII. **Fabrication of Dynamically Oleophobic Ceramic Surfaces**  
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- XXVIII. **Preparation of stable, transparent superhydrophobic film via one step one pot sol-gel method**  
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- XXIX. **Transparent Inorganic/Organic Anti-Fogging Copolymer Films by Sol-Gel Method**  
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- XXX. **The effect of kaolin type on properties of metakolin-based geopolymer**  
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- XXXI. **Fabrication of Transparent Superhydrophobic TEOS Film**  
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- XXXII. **Super Water and Oil Repellent Electrochromic Surfaces**  
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- XLI. **BUĞULANMAYAN VE İŞİK GEÇİREN GÖZLÜK CAMI ÜRETİMİ**  
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- XLII. **SÜPERHİDROFİLİK POLİMER+SİLİKA NANO-KOMPOZİT MALZEME SENTEZİ VE KARAKTERİZASYONU**  
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- XLIII. **FARKLI METAKAOLENLERDEN ELDE EDİLEN JEOPOLİMERLERİN FİZİKSEL DAVRANIŞLARININ İNCELENMESİ**  
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- ENNİL BEKTAŞ T., CENGİZ U., Akarken G., Project Supported by Higher Education Institutions, Borulu ısı değiştiricisinde soğutucu olarak kullanılacak nanoakışkanın üretimi ve modellenmesi, 2022 - Continues
- CENGİZ U., DUMAN O., Project Supported by Higher Education Institutions, SıvıCO<sub>2</sub> ortamında Metakaolen içeren su itici pamuklu kumaş üretimi ve yağ-su ayırma özelliğinin incelenmesi, 2022 - Continues
- Cengiz U., Akça İ., Project Supported by Other Private Institutions, Işık geçiren buğu önleyici süperhidrofilik kaplama üretimi, 2024 - 2025
- Cengiz U., Akarken G., Industrial Thesis Project, Kendi Kendini Temizleyen, Anti Bakteriyel ve Isı Yalıtım Özelliği Olan Jeopolimer Karo Üretimi, 2023 - 2025
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- CENGİZ U., Bülbül M. E., Akarken G., Project Supported by Higher Education Institutions, Yangın geciktirici jeopolimer levha üretiminde Altere Granadiyorit katkısının etkisinin incelenmesi, 2021 - 2024
- CENGİZ U., Akarken G., Project Supported by Higher Education Institutions, Farklı yan zincir uzunluklarına sahip silanlardan CO<sub>2</sub> ortamında nanoparitikül sentezi, 2022 - 2023
- CENGİZ U., Köseoğlu E., Project Supported by Higher Education Institutions, Su Altı Süperoleofobik PAA/TEOS Ormosil Yüzey Sentezi ve Karakterizasyonu, 2021 - 2023
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Cengiz U., TUBITAK Project, Buğulanmayan Ve Işık Geçiren Süper Su-Seven Yüzey Sentezi, 2014 - 2015

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Erbil H. Y., TUBITAK Project, Süperkritik Karbon Dioksit Çözücüsü Kullanarak Kendini Temizleyen ve Yenileyen Süperhidrofobik Yüzeylerin Sentezi, 2005 - 2008

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## Patent

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Publication: 144

Citation (WoS): 595

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## **Awards**

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## **Non Academic Experience**

University of California, Riverside, Proje Asistanı (NSF-TUBİTAK)