

Assoc. Prof. ERHAN BAT

Personal Information

Email: bat@metu.edu.tr

Web: <https://avesis.metu.edu.tr/bat>

International Researcher IDs

ScholarID: OyP6f5AAAAAJ

ORCID: 0000-0002-9790-1555

Publons / Web Of Science ResearcherID: J-5430-2015

ScopusID: 12790391800

Yoksis Researcher ID: 205487

Education Information

Doctorate, Universiteit Twente, Department Of Chemical Engineering/Polymer Chemistry And Biomaterials, Netherlands
2005 - 2010

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya Mühendisliği
(YL) (Tezli), Turkey 2003 - 2005

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey
1999 - 2003

Dissertations

Doctorate, Elastomeric networks based on trimethylene carbonate polymers for biomedical applications: physical
properties and degradation behaviour, Universiteit Twente, Department Of Chemical Engineering/Polymer Chemistry
And Biomaterials, 2010

Postgraduate, Synthesis and characterization of hyperbranched and air drying fatty acid based resins, Orta Doğu Teknik
Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya Mühendisliği (YL) (Tezli), 2005

Research Areas

Chemical Engineering and Technology, Biotechnology, Chemical Technologies, Metallurgical and Materials Engineering,
Material science and engineering

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2018
- Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2018
- 2018

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2014
- 2018

Research Assistant, Atilim University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering,
2004 - 2005

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2014 - Continues

Advising Theses

- BAT E., Structural modifications in an archaeal small heat shock protein to reveal molecular basis of substrate targeting and binding, Doctorate, A.RAFIQ(Student), 2022
- BAT E., Improvement of interfacial toughness of layered composites by using electrostatic flocking technique, Postgraduate, M.UTKU(Student), 2021
- BAT E., Production of nanofibers by electrospinning for interfacial toughening of composites, Postgraduate, Z.CANSU(Student), 2019
- BAT E., Interfacial toughening of carbon fiber reinforced polymer (CFRP) matrix composites using graphene oxide containing nanofibers, Postgraduate, C.ÇAYLAN(Student), 2019
- BAT E., Development of poly(trimethylene carbonate) based biodegradable microparticles, Postgraduate, G.ŞAHİN(Student), 2018
- BAT E., Development of graphene oxide based aerogels, Postgraduate, Ö.DOĞAN(Student), 2017
- ÇULFAZ EMECEN P. Z., BAT E., Investigation of parameters affecting morphologies of microfiltration and ultrafiltration membranes fabricated via phase separation microfabrication, Postgraduate, C.KAAN(Student), 2017
- ÇULFAZ EMECEN P. Z., BAT E., Investigation of parameters affecting morphology of microfiltration and ultrafiltration membranes fabricated via phase separation microfabrication, Postgraduate, C.KAAN(Student), 2017
- ÇULFAZ EMECEN P. Z., BAT E., Production of graphene oxide and polymer based nanocomposite microsieves via breath figure method, Postgraduate, A.ELİF(Student), 2017
- BAT E., YILMAZER Ü., Development of nanocomposite hydrogels for controlled release of proteins, Postgraduate, S.SİVRİ(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Interpenetrating network based polymeric sensors with enhanced specificity, sensitivity, and reusability**
BATIR Ö., BAT E., BÜKÜŞOĞLU E.
Sensors and Actuators B: Chemical, vol.367, 2022 (SCI-Expanded)
- II. **Fibers of thermoplastic polymer blends activate multiple interlayer toughening mechanisms**
Kılıçoğlu M., BAT E., Gündüz G., YILDIRIM M. U., URGUN K., MAVİŞ B.
Composites Part A: Applied Science and Manufacturing, vol.158, 2022 (SCI-Expanded)
- III. **Strain-enhanced sensitivity of polymeric sensors templated from cholesteric liquid crystals**
Batır Ö., Bat E., Büküşoğlu E.
SOFT MATTER, vol.16, no.29, pp.6794-6802, 2020 (SCI-Expanded)
- IV. **Dual growth factor delivery using PLGA nanoparticles in silk fibroin/PEGDMA hydrogels for articular cartilage tissue engineering**
Fathi-Achachelouei M., Keskin D., Bat E., Vrana N. E., Tezcaner A.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.108, pp.2041-2062, 2020 (SCI-Expanded)
- V. **Tethering vapor-phase deposited GLYMO coupling molecules to silane-crosslinked polyethylene surface via plasma grafting approaches**
Mostofi Sarkari N., DOĞAN Ö., BAT E., Mohseni M., Ebrahimi M.
APPLIED SURFACE SCIENCE, vol.513, 2020 (SCI-Expanded)
- VI. **A comparative study on EpCAM antibody immobilization on gold surfaces and microfluidic channels for the detection of circulating tumor cells**

Cetin D., Okan M., BAT E., KÜLAH H.

Colloids and Surfaces B: Biointerfaces, vol.188, 2020 (SCI-Expanded)

- VII. **Assessing effects of (3-aminopropyl) trimethoxysilane self-assembled layers on surface characteristics of organosilane-grafted moisture-crosslinked polyethylene substrate: A comparative study between chemical vapor deposition and plasma-facilitated in situ grafting methods**
Sarkari N. M., DOĞAN Ö., BAT E., Mohseni M., Ebrahimi M.
APPLIED SURFACE SCIENCE, vol.497, 2019 (SCI-Expanded)
- VIII. **Use of Nanoparticles in Tissue Engineering and Regenerative Medicine**
Fathi-Achachelouei M., Knopf-Marques H., Ribeiro da Silva C. E., Barthes J., BAT E., TEZCANER A., Vrana N. E.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (SCI-Expanded)
- IX. **Examination of 2-methacryloyloxyethyl phosphorylcholine polymer coated acrylic resin denture base material: surface characteristics and Candida albicans adhesion**
Turkcan I., NALBANT A. D., BAT E., AKCA G.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.29, no.7, 2018 (SCI-Expanded)
- X. **Glucose-Responsive Trehalose Hydrogel for Insulin Stabilization and Delivery**
Lee J., Ko J. H., Mansfield K. M., Nauka P. C., Bat E., Maynard H. D.
MACROMOLECULAR BIOSCIENCE, vol.18, no.5, 2018 (SCI-Expanded)
- XI. **Encapsulated Hydrogels by E-beam Lithography and Their Use in Enzyme Cascade Reactions**
Mancini R. J., Paluck S. J., BAT E., Maynard H. D.
LANGMUIR, vol.32, no.16, pp.4043-4051, 2016 (SCI-Expanded)
- XII. **Trehalose polymers for stabilization of industrially important proteins**
Lee J., Ko J. H., Liu Y., Lin E., Messina M., Bat E., Nauka P., Wallace P., Ruch F., Maynard H.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.251, 2016 (SCI-Expanded)
- XIII. **Direct Write Protein Patterns for Multiplexed Cytokine Detection from Live Cells Using Electron Beam Lithography**
Lau U. Y., Saxer S. S., Lee J., Bat E., Maynard H. D.
ACS NANO, vol.10, pp.723-729, 2016 (SCI-Expanded)
- XIV. **Direct write of proteins by electron beam lithography using a new water-soluble resist**
Maynard H., Lau U., Lee J., Bat E.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.250, 2015 (SCI-Expanded)
- XV. **Imine Hydrogels with Tunable Degradability for Tissue Engineering**
Boehnke N., Cam C., Bat E., Segura T., Maynard H. D.
BIOMACROMOLECULES, vol.16, no.7, pp.2101-2108, 2015 (SCI-Expanded)
- XVI. **Trehalose glycopolymer resists allow direct writing of protein patterns by electron-beam lithography**
Bat E., Lee J., Lau U. Y., Maynard H. D.
NATURE COMMUNICATIONS, vol.6, 2015 (SCI-Expanded)
- XVII. **Morphing Hydrogel Patterns by Thermo-Reversible Fluorescence Switching**
Bat E., Lin E., Saxer S., Maynard H. D.
MACROMOLECULAR RAPID COMMUNICATIONS, vol.35, no.14, pp.1260-1265, 2014 (SCI-Expanded)
- XVIII. **Nanoparticle Growth via Concentration Gradients Generated by Enzyme Nanopatterns**
de la Rica R., Bat E., Herpoldt K. L., Xie H., Bertazzo S., Maynard H. D., Stevens M. M.
ADVANCED FUNCTIONAL MATERIALS, vol.24, no.24, pp.3692-3698, 2014 (SCI-Expanded)
- XIX. **Biodegradable elastomers for biomedical applications and regenerative medicine**
Bat E., Zhang Z., Feijen J., Grijpma D. W., Poot A. A.
REGENERATIVE MEDICINE, vol.9, no.3, pp.385-398, 2014 (SCI-Expanded)
- XX. **Chemoselective Immobilization of Proteins by Microcontact Printing and Bio-orthogonal Click Reactions**
Tolstyka Z. P., Richardson W., Bat E., Stevens C. J., Parra D. P., Dozier J. K., Distefano M. D., Dunn B., Maynard H. D.
CHEMBIOCHEM, vol.14, no.18, pp.2464-2471, 2013 (SCI-Expanded)
- XXI. **Trehalose Glycopolymers as Excipients for Protein Stabilization**

Lee J., Lin E., Lau U. Y., Hedrick J. L., Bat E., Maynard H. D.

BIOMACROMOLECULES, vol.14, no.8, pp.2561-2569, 2013 (SCI-Expanded)

- XXII. **Physical Properties and Erosion Behavior of Poly(trimethylene carbonate-co-epsilon-caprolactone) Networks**
Bat E., van Kooten T. G., Harmsen M. C., Plantinga J. A., van Luyn M. J. A., Feijen J., Grijpma D. W.
MACROMOLECULAR BIOSCIENCE, vol.13, no.5, pp.573-583, 2013 (SCI-Expanded)
- XXIII. **Soft-lithographic patterning of room temperature-sintering Ag nanoparticles on foil**
Moonen P. F., Bat E., Voorthuizen W. P., Huskens J.
RSC ADVANCES, vol.3, no.40, pp.18498-18505, 2013 (SCI-Expanded)
- XXIV. **Towards an in vitro model of macrophage-mediated degradation of polymer scaffolds**
Van Kooten T. G., Bat E., Kuijter R., Grijpma D. W.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.6, pp.349-350, 2012 (SCI-Expanded)
- XXV. **Crosslinking of Trimethylene Carbonate and D,L-Lactide (Co-) Polymers by Gamma Irradiation in the Presence of Pentaerythritol Triacrylate**
Bat E., van Kooten T. G., Feijen J., Grijpma D. W.
MACROMOLECULAR BIOSCIENCE, vol.11, no.7, pp.952-961, 2011 (SCI-Expanded)
- XXVI. **Resorbable elastomeric networks prepared by photocrosslinking of high-molecular-weight poly(trimethylene carbonate) with photoinitiators and poly(trimethylene carbonate) macromers as crosslinking aids**
Bat E., van Kooten T. G., Feijen J., Grijpma D. W.
ACTA BIOMATERIALIA, vol.7, no.5, pp.1939-1948, 2011 (SCI-Expanded)
- XXVII. **In vivo behavior of trimethylene carbonate and epsilon-caprolactone-based (co)polymer networks: Degradation and tissue response**
Bat E., Plantinga J. A., Harmsen M. C., van Luyn M. J. A., Feijen J., Grijpma D. W.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, no.3, pp.940-949, 2010 (SCI-Expanded)
- XXVIII. **Flexible scaffolds based on poly(trimethylene carbonate) networks for cardiac tissue engineering**
Bat E., Harmsen M. C., Plantinga J. A., van Luyn M. J. A., Feijen J., Grijpma D. W.
JOURNAL OF CONTROLLED RELEASE, vol.148, no.1, 2010 (SCI-Expanded)
- XXIX. **Ultraviolet light crosslinking of poly(trimethylene carbonate) for elastomeric tissue engineering scaffolds**
Bat E., Kothman B. H. M., Higuera G. A., van Blitterswijk C. A., Feijen J., Grijpma D. W.
BIOMATERIALS, vol.31, no.33, pp.8696-8705, 2010 (SCI-Expanded)
- XXX. **Biodegradable Elastomeric Networks: Highly Efficient Cross-Linking of Poly(trimethylene carbonate) by Gamma Irradiation in the Presence of Pentaerythritol Triacrylate**
Bat E., Feijen J., Grijpma D. W.
BIOMACROMOLECULES, vol.11, no.10, pp.2692-2699, 2010 (SCI-Expanded)
- XXXI. **Macrophage-mediated erosion of gamma irradiated poly(trimethylene carbonate) films**
Bat E., van Kooten T. G., Feijen J., Grijpma D. W.
BIOMATERIALS, vol.30, no.22, pp.3652-3661, 2009 (SCI-Expanded)
- XXXII. **Thermoreversible gelation behaviour of PTMC-PEG-PTMC triblock copolymers**
Bat E., Grijpma D. W., Feijen J.
JOURNAL OF CONTROLLED RELEASE, vol.132, no.3, 2008 (SCI-Expanded)
- XXXIII. **Trimethylene Carbonate and epsilon-Caprolactone Based (co)Polymer Networks: Mechanical Properties and Enzymatic Degradation**
Bat E., Plantinga J. A., Harmsen M. C., van Luyn M. J. A., Zhang Z., Grijpma D. W., Feijen J.
BIOMACROMOLECULES, vol.9, no.11, pp.3208-3215, 2008 (SCI-Expanded)
- XXXIV. **Synthesis and characterization of hyperbranched and air drying fatty acid based resins**
Bat E., Gunduz G., Kisakurek D., Akhmedov I.
PROGRESS IN ORGANIC COATINGS, vol.55, no.4, pp.330-336, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **HYDROXYETHYL METHACRYLATE BASED NANOCOMPOSITE HYDROGELS WITH TUNABLE PORE ARCHITECTURE**

BAT E.

Journal of the Turkish Chemical Society, Section A: Chemistry, vol.3, no.3, pp.607-622, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Enhanced sensitivity of polymeric sensors templated from cholesteric liquid crystals**
BATIR Ö., BAT E., BÜKÜŞOĞLU E.
ACS Fall 2021, 22 - 26 August 2021
- II. **Nefes Figürü Yöntemi İle Polisülfon Ve Grafen Oksit Esaslı Gözenekli Filmlerin Üretimi Ve Karakterizasyonu**
KAVAK Ö., BAT E.
14. Ulusal Kimya Mühendisliği Kongresi, Turkey, 10 June 2021
- III. **Büyüme Faktörü Yüklenmiş İpek Fibroin/PEGDAM Hidrojelleriyle Artiküler Kıkırdak Doku Mühendisliği**
Fathi Achachelouei M., Vrana N. E., Bat E., Keskin D., Tezcaner A.
23rd Biomedical Science and Technology Symposium, İstanbul, Turkey, 15 - 16 December 2018, pp.61
- IV. **Reduced Graphene Oxide - Molybdenum Disulfide Aerogel Nanocomposite Electrodes for Supercapacitors**
Aydınlı A., Doğan Ö., Koylan S., Bat E., Ünal H. E.
Materials Research Society Fall Meeting 2018, Massachusetts, United States Of America, 25 - 30 November 2018, pp.1
- V. **Reduced Graphene Oxide - Molybdenum Disulfide Aerogel Nanocomposite Electrodes for Supercapacitors**
AYDINLI A., DOĞAN Ö., KOYLAN S., BAT E., ÜNALAN H. E.
2018 MRS Fall Meeting Exhibit, Boston, United States Of America, 25 - 30 November 2018
- VI. **Production of Reduced Graphene Oxide and Polymer Based Aerogels**
DOĞAN Ö., BAT E.
VII. Ulusal Polimer Bilim ve Teknoloji Kongresi, Turkey, 9 - 12 September 2018
- VII. **Reduced Graphene Oxide Aerogel – Molybdenum Disulfide Supercapacitor Electrodes on Nickel Foams**
AYDINLI A., DOĞAN Ö., KOYLAN S., BAT E., ÜNALAN H. E.
14th NANOSCIENCE ANDNANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 22 - 25 September 2018
- VIII. **Production of Reduced Graphene Oxide Based Aerogels for Oil-Water Separations**
DOĞAN Ö., BAT E.
9th Eastern Mediterranean Chemical Engineering Conference, Ankara, Turkey, 31 August - 02 September 2018
- IX. **Cholesteric Liquid Crystal Based Polymeric Sensors for Detection of Volatile Organic Compounds**
Batır Ö., Bat E., Büküşoğlu E.
Eastern Mediterranean Chemical Engineering Conferences 9, Ankara, Turkey, 30 August - 01 September 2018, pp.1
- X. **Controlled Delivery of bFGF and TGF- β 1 via Polymeric Nanoparticles within Hybrid Hydrogels for Articular Cartilage Tissue Engineering**
Achachelouei M., Vrana N. E., Bat E., Tezcaner A., Keskin D.
4. International Society for Biomedical Polymers and Polymeric Biomaterials (ISBPPB) conference, Krakow, Poland, 15 - 18 July 2018, pp.116
- XI. **PRODUCTION OF REDUCED GRAPHENE OXIDE AND POLYMER BASED AEROGELS FOR OIL-WATER SEPARATIONS**

- DOĞAN Ö., BAT E.
5th International Polymeric Composites Symposium and Workshops, İzmir, Turkey, 2 - 04 November 2017
- XII. **PRODUCTION OF REDUCED GRAPHENE OXIDE BASED AEROGELS FOR OIL-WATER SEPARATIONS**
DOĞAN Ö., BAT E.
5th International Polymeric Composites Symposium and Workshops, İzmir, Turkey, 2 - 04 November 2017
- XIII. **Grafen Oksit ve Polimer Esaslı Aerojellerin Üretimi ve Karakterizasyonu**
DOĞAN Ö., BAT E.
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017
- XIV. **Production of Reduced Graphene Oxide and Polymer based Aerogels for Oil-Water Separations**
DOĞAN Ö., BAT E.
14th International Conference on Polymers for Advanced Technologies 2017, Manchester, United Kingdom, 11 September - 13 November 2017
- XV. **Fabrication of Poly(PEGMA) Grafted Graphene Oxide and Polysulfone Based Porous Films via Breath Figure Method**
KIRATLI A. E., ÇULFAZ EMECEN P. Z., BAT E.
14th International Conference on Polymers for Advanced Technologies, Manchester, United Kingdom, 11 - 13 September 2017
- XVI. **Examination of 2-Methacryloyloxyethyl Phosphorylcholine Polymer Coated Acrylic Resin:Surface Characteristics and Candida albicans Adhesion**
Türkcan İ., NALBANT A. D., BAT E., AKCA G.
22nd BASS Congress, Contemporary Challenges in Dentistry, Thessaloniki, Greece, 4 - 06 May 2017
- XVII. **Grafen Oksit ve Glisidil Metakrilat Kopolimerleri İçeren Aerojel Üretimi**
DOĞAN Ö., BAT E.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016
- XVIII. **Kontrollü Protein Salımına Yönelik Nanokompozit Hidrojel Geliştirilmesi**
SİVRİ S., Yilmazer Ü., BAT E.
6. Ulusal Polimer Bilim ve Teknoloji Kongresi, Turkey, 4 - 07 September 2016
- XIX. **Grafen Oksit Türevleri ile Aerojel Üretimi ve Karakterizasyonu**
DOĞAN Ö., BAT E.
12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 - 26 August 2016
- XX. **Hydroxyethyl Methacrylate Based Nanocomposite Hydrogels with Tunable Pore Architecture**
BAT E.
28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016
- XXI. **Development of Graphene Oxide Polymer Based Aerogels**
DOĞAN Ö., BAT E.
46th IUPAC World Polymer Congress, 17 - 19 July 2016
- XXII. **Direct Write Patterning of Multiple Proteins and Polymers at the Micrometer and Nanometer Scale**
BAT E., Maynard H. D.
46th IUPAC World Polymer Congress, 17 - 19 July 2016
- XXIII. **Graphene Oxide Polymer Based Membranes**
KIRATLI A. E., DEMİRCİ S., DOĞAN Ö., BAT E.
46th IUPAC World Polymer Congress, 17 - 21 July 2016
- XXIV. **Development of Graphene Oxide based Aerogels**
DOĞAN Ö., BAT E.
46th IUPAC World Polymer Congress, 17 - 21 July 2016
- XXV. **Thermo reversible Fluorescence Switching of Multicomponent Hydrogel Patterns Generated by E Beam Lithography**
BAT E., Lin E. W., Maynard H. D.
International Symposium on Stimuli Responsive Materials, 20 - 22 October 2013
- XXVI. **Hydrogel Filled Silicon Stamps for Generating Multiplexed Protein Microarrays**
BAT E., Jonkheijm P., Huskens J.

Materials Research Society 2011 Fall Meeting, 28 November - 02 December 2011

XXVII. Micropatterning and Covalent Immobilization of Multiple Bioactive Molecules for Regenerative Medicine Applications

BAT E., CabanasDanes J., Jonkheijm P., Huskens J.

Materials Research Society 2011 Fall Meeting, 28 November - 02 December 2011

XXVIII. Towards and in vitro model of macrophage mediated degradation of polymer scaffolds

van Kooten T. G., BAT E., Kuijter R., Feijen J., Grijpma D. W.

Tissue Engineering and Regenerative Medicine International Society-EU Meeting, 7 - 10 June 2011

XXIX. Flexible Scaffolds Based on Poly trimethylene carbonate Networks for Cardiac Tissue Engineering

BAT E., Harmsen M. C., Plantinga J. A., van Luyn M. J., Feijen J., Grijpma D. W.

11th European Symposium on Controlled Drug Delivery, 7 - 09 April 2010

XXX. Macrophage mediated Biodegradation of Gamma Irradiated Poly trimethylene carbonate

BAT E., van Kooten T. G., Feijen J., Grijpma D. W.

22nd European Conference on Biomaterials, 7 - 11 September 2009

XXXI. In Vivo Degradation of Trimethylene Carbonate and e Caprolactone Co polymer Networks

BAT E., Plantinga J. A., Harmsen M. C., van Luyn M. J., Grijpma D. W., Feijen J.

8th World Biomaterials Congress, 28 May - 01 June 2008

XXXII. Thermoreversible Gelation Behavior of PTMC PEG PTMC Triblock Copolymers

BAT E., Grijpma D. W., Feijen J.

10th European symposium on Controlled Drug Delivery, 2 - 04 April 2008

XXXIII. Trimethylene Carbonate Based co polymers and Networks for Cardiac Tissue Engineering

BAT E., Plantinga J. A., Harmsen M. C., van Luyn M. J., Grijpma D. W.

21st European Conference on Biomaterials, 9 - 13 September 2007

XXXIV. Biodegradable Elastic Copolymer Networks for Cardiac Tissue Engineering

BAT E., Plantinga J. A., Harmsen M. C., van Luyn M. J., Grijpma D. W., Feijen J.

7th International Symposium on Frontiers in Biomedical Polymers, 24 - 27 June 2007

Supported Projects

BÜKÜŞÖĞLU E., BAT E., BATIR Ö., Project Supported by Higher Education Institutions, Polimerik Gaz Sensörlerinin Geliştirilmesi, 2020 - 2022

BAT E., POLAT D. S., Project Supported by Higher Education Institutions, Alternatif Yöntemler ile İndirgenmiş Grafen Oksit Esaslı Aerojellerin Geliştirilmesi, 2018 - 2021

TEZCANER A., Vrana N. E., KESKİN D., BAT E., FATHI ACHACHELOUEI M., Project Supported by Higher Education Institutions, Kırkdak Doku Mühendisliğine Yönelik Kontrollü Büyüme Faktör Salım Sistemi İçeren İskele Tasarımı, 2018 - 2019

Bat E., TUBITAK Project, Grafen Oksit ve Polimer Esaslı Nanokompozit Membranların Nefes Figürü Yöntemi ile Üretilmesi, 2015 - 2018

BAT E., Project Supported by Higher Education Institutions, KARBON FİBER TAKVİYELİ POLİMER MATRİSLİ KOMPOZİTLERİN ARAYÜZLERİNİN GRAFEN OKSİT İÇEREN NANOFİBERLER İLE TOKLAŞTIRILMASI, 2017 - 2017

BAT E., ÖZÇINAR Z. C., Project Supported by Higher Education Institutions, Elektroeğirme Yöntemi İle Grafen Oksit Bazlı Nanolif Üretimi, 2017 - 2017

BAT E., ŞAHİN G., Project Supported by Higher Education Institutions, Kontrollü İlaç Salımına Yönelik Biyobozunur Nanoparçacık Üretimi, 2016 - 2017

Çulfaz Emecen P. Z., Bat E., Kalıpcılar H., TUBITAK Project, TUBİTAK MAG 115M635, 2015 - 2017

BAT E., TUBITAK Project, Nano Melez Sistemlerin Karbon Fiber Takviyeli Polimer Matris Kompozitlerde Arayüz Toklaştırma Amacıyla Kullanılması, 2015 - 2017

BAT E., DOĞAN Ö., Project Supported by Higher Education Institutions, Grafen Oksit ve Polimer Esaslı Aerojel Üretimi ve Özelliklerinin Belirlenmesi, 2015 - 2016

BAT E., TUBITAK Project, Protein Stabilizasyonu ve Kontrollü Salımı için Nanokompozit Hidrojel Gelistirilmesi, 2014 -

2016

BAT E., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014
- 2016

BAT E., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014
- 2016

Patent

BAT E., Stamp for making a microarray of biomolecules, Patent, CHAPTER C Chemistry; Metallurgy, Standard
Registration, 2014

BAT E., Method for Preparing a Degradable Polymer Network, Patent, CHAPTER C Chemistry; Metallurgy, Standard
Registration, 2011

Metrics

Publication: 70

Citation (WoS): 986

Citation (Scopus): 994

H-Index (WoS): 17

H-Index (Scopus): 18