

## Assoc. Prof. HÜSEYİN AVCI

### Personal Information

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### Education Information

Doctorate, North Carolina State University, Fiber Ve Polimer Bilimi, United States Of America 2010 - 2013

Postgraduate, North Carolina State University {North Carolina}, Tekstil Kimyası, United States Of America 2008 - 2010

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, Turkey 1999 - 2005

### Dissertations

Doctorate, Unusual formation of precursors for crystallization of ultra-high performance polypropylene and poly (ethylene terephthalate) fibers by utilization of ecologically friendly horizontal isothermal bath, North Carolina State University, Fiber Ve Polimer Bilimi, 2013

Postgraduate, Novel approaches to the development and characterization of antimicrobial conventional and nanostructured materials, North Carolina State University {North Carolina}, Tekstil Kimyası, 2010

### Research Areas

Material science and engineering

### Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2019 - Continues

Research Assistant, Harvard-Mit Health Sciences And Technology, 2015 - 2016

Research Assistant, Harvard University, Medical School, 2015 - 2016

Research Assistant, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, 2013 - 2014

Research Assistant, North Carolina State University, 2013 - 2014

Research Assistant, North Carolina State University, 2008 - 2013

### Courses

NANO POLİMERİK MALZEMELERİN YAPISI VE ÖZELLİKLERİ, Postgraduate, 2016 - 2017, 2017 - 2018

POLİMER MÜHENDİSLİĞİNİN TEMELLERİ, Postgraduate, 2017 - 2018

KLİNİK DOKU MÜHENDİSLİĞİ, Doctorate, 2017 - 2018

LİF VE LİFLİ YAPILARIN ÖZELLİKLERİ VE KULLANIMI, Doctorate, 2016 - 2017, 2017 - 2018

Polimer Malzemeler, Undergraduate, 2016 - 2017, 2017 - 2018

POLİMER MALZEMELER VE TASARIM, Undergraduate, 2016 - 2017, 2017 - 2018

İLERİ BİYOMALZEMELER VE UYGULAMALARI, Postgraduate, 2016 - 2017, 2017 - 2018

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

- I. **Electrochemical Investigation of Gold Based Screen Printed Electrodes: An Application for a Seafood Toxin Detection**  
Koc Y., Morali U., Erol S., AVCI H.  
Electroanalysis, vol.33, no.4, pp.1033-1048, 2021 (Journal Indexed in SCI Expanded)
- II. **Investigation of the Effect of Channel Structure and Flow Rate on On-Chip Bacterial Lysis.**  
Dizaji A. N. , Ozturk Y., Ghorbanpoor H., Cetak A., AKÇAKOCA İ., Kocagoz T., AVCI H., Corrigan D., Guzel F. D.  
IEEE transactions on nanobioscience, vol.20, no.1, pp.86-91, 2021 (Journal Indexed in SCI Expanded)
- III. **Label-free molecular detection of antibiotic susceptibility for Mycobacterium smegmatis using a low cost electrode format.**  
Guzel F. D. , Ghorbanpoor H., Dizaji A. N. , AKÇAKOCA İ., Ozturk Y., Kocagoz T., Corrigan D. K. , AVCI H.  
Biotechnology and applied biochemistry, 2020 (Journal Indexed in SCI Expanded)
- IV. **Self-assembled fibrillar polyethylene crystals with tunable properties**  
Seyhan A., Gunaydin B. N. , POLAT Y., Kılıç A., Demir A., AVCI H.  
POLYMER ENGINEERING AND SCIENCE, vol.60, no.9, pp.2176-2189, 2020 (Journal Indexed in SCI)
- V. **Flexible poly(styrene-ethylene-butadiene-styrene) hybrid nanofibers for bioengineering and water filtration applications**  
AVCI H., Akkulak E., Gergeroglu H., Ghorbanpoor H., UYSAL O., EKER SARIBOYACI A., Demir B., Soykan M. N. , PAT S., Mohammadigharehbagh R., et al.  
Journal of Applied Polymer Science, vol.137, no.26, 2020 (Journal Indexed in SCI Expanded)
- VI. **Decellularized inner body membranes for tissue engineering: a review**  
Inci I., Norouz Dizaji A., Ozel C., MORALI U., Dogan Guzel F., Avci H.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.31, no.10, pp.1287-1368, 2020 (Journal Indexed in SCI)
- VII. **Customizable Composite Fibers for Engineering Skeletal Muscle Models**  
Fallahi A., Yazdi I. K. , Serex L., Lesha E., Faramarzi N., Tarlan F., Avci H., Costa-Almeida R., Sharifi F., Rinoldi C., et al.  
ACS BIOMATERIALS SCIENCE & ENGINEERING, vol.6, no.2, pp.1112-1123, 2020 (Journal Indexed in SCI)
- VIII. **Synergistic effects of plant extracts and polymers on structural and antibacterial properties for wound healing**  
AVCI H., Gergeroglu H.  
POLYMER BULLETIN, vol.76, no.7, pp.3709-3731, 2019 (Journal Indexed in SCI)
- IX. **Preparation of origanum minutiflorum oil-loaded core-shell structured chitosan nanofibers with tunable properties**  
Avci H., Ghorbanpoor H., Nurbaş M.  
Polymer Bulletin, vol.75, no.9, pp.4129-4144, 2018 (Journal Indexed in SCI Expanded)
- X. **Reversible Redox Activity by Ion-pH Dually Modulated Duplex Formation of i-Motif DNA with Complementary G-DNA**  
Chang S., Kilic T., Lee C. K. , AVCI H., Bae H., Oskui S. M. , Jung S. M. , Shin S. R. , Kim S. J.  
NANOMATERIALS, vol.8, no.4, 2018 (Journal Indexed in SCI)
- XI. **Fabrication of Nanopores in an Ultra-Thin Polyimide Membrane for Biomolecule Sensing**  
Guzel F. D. , Avci H.  
IEEE SENSORS JOURNAL, vol.18, no.7, pp.2641-2646, 2018 (Journal Indexed in SCI)
- XII. **Cell-laden composite suture threads for repairing damaged tendons**  
Costa-Almeida R., Domingues R. M. A. , Fallahi A., Avci H., Yazdi I. K. , Akbari M., Reis R. L. , Tamayol A., Gomes M. E. , Khademhosseini A.  
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.12, no.4, pp.1039-1048, 2018 (Journal Indexed in SCI)
- XIII. **Rapid prototyping of whole-thermoplastic microfluidics with built-in microvalves using laser ablation and thermal fusion bonding**  
Shaegh S. A. M. , Pourmand A., Nabavina M., Avci H., Tamayol A., Mostafalu P., Ghavifekr H. B. , Aghdam E. N. , Dokmeci M. R. , Khademhosseini A., et al.

SENSORS AND ACTUATORS B-CHEMICAL, vol.255, pp.100-109, 2018 (Journal Indexed in SCI)

- XIV. **A Review of Cellulose and Cellulose Blends for Preparation of Bio-derived and Conventional Membranes, Nanostructured Thin Films, and Composites**  
Douglass E. F. , AVCI H., Boy R., Rojas O. J. , Kotek R.  
POLYMER REVIEWS, vol.58, no.1, pp.102-163, 2018 (Journal Indexed in SCI)
- XV. **Recent advances in organ-on-a-chip technologies and future challenges: a review**  
AVCI H., Dogan Guzel F., EROL S., Akpek A.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.3, pp.587-610, 2018 (Journal Indexed in SCI)
- XVI. **An eco-friendly approach to synthesis and characterization of magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles using Platanus Orientalis L. leaf extract**  
Nurbas M., Ghorbanpoor H., Avci H.  
Digest Journal of Nanomaterials and Biostructures, vol.12, no.4, pp.993-1000, 2017 (Journal Indexed in SCI Expanded)
- XVII. **Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes**  
Shin S. R. , Kilic T., Zhang Y. S. , Avci H., Hu N., Kim D., Branco C., Aleman J., Massa S., Silvestri A., et al.  
ADVANCED SCIENCE, vol.4, no.5, 2017 (Journal Indexed in SCI)
- XVIII. **Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors**  
Zhang Y. S. , Aleman J., Shin S. R. , Kilic T., Kim D., Shaegh S. A. M. , Massa S., Riahi R., Chae S., Hu N., et al.  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.114, no.12, 2017 (Journal Indexed in SCI)
- XIX. **Development of High-Tenacity, High-Modulus Poly(ethylene terephthalate) Filaments via a Next Generation Wet-Melt-Spinning Process**  
Yoon J. H. , AVCI H., Najafi M., Nasri L., Hudson S. M. , Kotek R.  
POLYMER ENGINEERING AND SCIENCE, vol.57, no.2, pp.224-230, 2017 (Journal Indexed in SCI)
- XX. **Investigation and recycling of paint sludge with cement and lime for producing lightweight construction mortar**  
AVCI H., Ghorbanpoor H., TOPÇU İ. B. , NURBAŞ M.  
Journal of Environmental Chemical Engineering, vol.5, no.1, pp.861-869, 2017 (Journal Indexed in SCI Expanded)
- XXI. **Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers**  
Shin S. R. , Zhang Y. S. , Kim D., Manbohi A., Avci H., Silvestri A., Aleman J., Hu N., Kilic T., Keung W., et al.  
ANALYTICAL CHEMISTRY, vol.88, no.20, pp.10019-10027, 2016 (Journal Indexed in SCI)
- XXII. **Photophysical properties of phosphorescent elastomeric composite nanofibers**  
ÇALIŞIR M. D. , Erol M., Kılıç A., AVCI H.  
DYES AND PIGMENTS, vol.125, pp.95-99, 2016 (Journal Indexed in SCI)
- XXIII. **Highly crystalline and oriented high-strength poly(ethylene terephthalate) fibers by using low molecular weight polymer**  
Avci H., Najafi M., Kılıç A., Kotek R.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.132, no.45, 2015 (Journal Indexed in SCI)
- XXIV. **High-performance filaments by melt spinning low viscosity nylon 6 using horizontal isothermal bath process**  
Najafi M., AVCI H., Kotek R.  
POLYMER ENGINEERING AND SCIENCE, vol.55, no.11, pp.2457-2464, 2015 (Journal Indexed in SCI)
- XXV. **Controlling of Threadline Dynamics via a Novel Method to Develop Ultra-High Performance Polypropylene Filaments**  
Avci H., Kotek R., Toliver B.  
POLYMER ENGINEERING AND SCIENCE, vol.55, no.2, pp.327-339, 2015 (Journal Indexed in SCI)
- XXVI. **Characterization and Development of a New Method for Determination Charge Density of 3-(Trimethoxysilyl)-propyldimethyloctadecyl Ammonium Chloride Coatings on Polyester Surfaces**

- Avci H., Monticello R., Kotek R.  
AATCC JOURNAL OF RESEARCH, vol.1, no.3, pp.1-10, 2014 (Journal Indexed in SCI)
- XXVII. **Characterization of Degradation of Polypropylene Nonwovens Irradiated by gamma-Ray**  
Keene B., Bourham M., Viswanath V., Avci H., Kotek R.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, no.4, 2014 (Journal Indexed in SCI)
- XXVIII. **Preparation of antibacterial PVA and PEO nanofibers containing Lawsonia Inermis (henna) leaf extracts**  
Avci H., Monticello R., Kotek R.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.24, no.16, pp.1815-1830, 2013 (Journal Indexed in SCI)
- XXIX. **Developing an ecologically friendly isothermal bath to obtain a new class high-tenacity and high-modulus polypropylene fibers**  
Avci H., Kotek R., Yoon J.  
JOURNAL OF MATERIALS SCIENCE, vol.48, no.22, pp.7791-7804, 2013 (Journal Indexed in SCI)
- XXX. **Properties of Antibacterial Polypropylene/Nanometal Composite Fibers**  
Gawish S. M. , Avci H., Ramadan A. M. , Mosleh S., Monticello R., Breidt F., Kotek R.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.23, pp.43-61, 2012 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Biologically modified microelectrode sensors provide enhanced sensitivity for detection of nucleic acid sequences from Mycobacterium tuberculosis**  
Blair E. O. , Hannah S., Vezza V., AVCI H., Kocagoz T., Hoskisson P. A. , Güzel F. D. , Corrigan D. K.  
Sensors and Actuators Reports, vol.2, no.1, pp.100008, 2020 (Refereed Journals of Other Institutions)
- II. **Recent Advances in 4D Bioprinting**  
AKPEK A., BAL ÖZTÜRK A., ALARÇİN E., AVCI H., avci adali m.  
Research Journal of Biomedical and Biotechnology, vol.1, no.1, pp.20-23, 2020 (Other Refereed National Journals)
- III. **Impedance testing of porous Si3N4 scaffolds for skeletal implant applications**  
Akbulut S. O. , Ghorbanpoor H., Iptec B. O. , Butterworth A., Avcioglu G., Kozaci L. D. , Topates G., Corrigan D. K. , AVCI H., Guzel F. D.  
SN Applied Sciences, vol.2, no.5, 2020 (Refereed Journals of Other Institutions)
- IV. **GÜÇ TUTUŞUR POLİPROPİLEN POLİMERİ VE LİF UYGULAMALARINDA SON GELİŞMELER VE GELECEK BEKLENTİLERİ**  
AVCI H., ÜREYEN M. E. , KILIÇ A., Sağlam E. A. , DEMİR A.  
Uludağ University Journal of The Faculty of Engineering, vol.24, no.2, pp.609-632, 2019 (Refereed Journals of Other Institutions)
- V. **HIGH PERFORMANCE FIBERS: A REVIEW ON CURRENT STATE OF ART AND FUTURE CHALLENGES**  
AVCI H., Hassanin A., Hamouda T., KILIÇ A.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.27, no.2, pp.130-155, 2019 (Refereed Journals of Other Institutions)
- VI. **PRODUCTION AND ANALYSIS OF FUNCTIONAL SEBS NANOFIBERS BY ELECTROSPINNING**  
AVCI H., AKKULAK E., GERGEROĞLU H., GHORBANPOOR H., BAKSAN B., DOĞAN GÜZEL F.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.26, no.2, pp.40-46, 2018 (Refereed Journals of Other Institutions)
- VII. **A NOVEL APPROACH FOR WATER TREATMENT BY USING ACTIVATED CARBON : APRICOT KERNEL SHELL**  
ADHAMİ S., GHORBANPOOR H., AZAK B., KAPUCU S., NURBAŞ M., AVCI H.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.26, no.1, pp.1-7, 2018 (Refereed Journals of Other Institutions)
- VIII. **FUNCTIONAL COMPOSITE NANOFIBERS DERIVED FROM NATURAL EXTRACT OF SATUREJA**

## HORTENSIS

GERGEROĞLU H., AVCI H.

Anadolu University Journal of Science and Technology-A Applied Sciences and Engineering, vol.18, no.5, pp.908-918, 2017 (Other Refereed National Journals)

- IX. **Sustainable Approach to Produce Polyurethane Composite Foams with Natural Materials**  
AVCI H., Ozdemir A. U.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, 2017 (Other Refereed National Journals)
- X. **Atık Boya Çamuru ile Üretilen Betonların özellikleri**  
Ghorbanpoor H., TOPÇU İ. B. , AVCI H., NURBAŞ M.  
yapı dünyası, vol.252, pp.42-45, 2017 (Other Refereed National Journals)
- XI. **Investigation Of 3D Bio-Composite Structures Using Vacuum Infusion Method Via Chicken Feathers Fibers**  
Nurbaş M., Ghorbanpoor H., Avci H.  
Journal of Advanced Research in Engineering Technology, vol.1, no.2, pp.5-10, 2017 (Refereed Journals of Other Institutions)
- XII. **Effects of Reinforced Materials on Mechanical Properties of 3D Composite Structure**  
ghorbanpoor h., NURBAŞ M., AVCI H.  
International Journal of Mechanical and Production Engineering, 2016 (Refereed Journals of Other Institutions)
- XIII. **Effect of Reinforced Materials on Mechanical Properties of 3D Composite Structure**  
Ghorbanpoor H., NURBAŞ M., AVCI H.  
International Journal of Mechanical And Production Engineering, 2016 (Refereed Journals of Other Institutions)
- XIV. **Effective Commercial Additives for Improving Poly-Propylene Fibres Properties by The Melt Extrusion Process**  
Gawish S., Kotek R., Monticello R., Ramadan A., AVCI H., Mosleh M.  
Al-Azhar Bulletin of Science, 2010 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **Production of polyolefins**  
Kotek R., Afshari M., Avci H., Najafi M.  
in: Polyolefin Fibres: Structure, Properties and Industrial Applications, S C O Ugbohue, Editor, Woodhead Publishing Limited , Birmingham, pp.187-264, 2017
- II. **Development of antimicrobial materials**  
AVCI H.  
Saarbrücken: VDM Verlag Dr Müller, 2011

## Refereed Congress / Symposium Publications in Proceedings

- I. **A novel microheater integrated microelectrode enhances the sensitivity of conventional electrochemical nucleic acid biosensors**  
Akcakoca I., Ghorbanpoor H., Ozturk Y., Norouz Dizaji A., Blair E., Kocagoz T., Corrigan D., AVCI H., DOĞAN GÜZEL F.  
International Eurasian Conference on Biotechnology and Biochemistry, 16 - 18 December 2020
- II. **Çeşitli Redoks Problemlerinin Ekran Baskılı Karbon Elektrodun Elektrokimyasal Davranışı Üzerindeki Etkisinin Dönüşümlü Voltametri Yöntemi ile İncelenmesi**  
KOÇ Y., MORALI U., EROL S., AVCI H.  
32. Ulusal Kimya Kongresi, Turkey, 17 - 19 September 2020
- III. **Investigation of Hot Drawing on Chain Orientation Using Linear Low-Density Polyethylene Fibers**  
Seyhan A., Tepekiran B., POLAT Y., KILIÇ A., DEMİR A., AVCI H.  
VII. International Fiber and Polymer Research Symposium, 25 - 26 September 2020

- IV. **Organ on a Chip: Opportunities and Challenges**  
AVCI H.  
BioTurkiye, 5 - 07 March 2020
- V. **Synergistic engineering of organoids: A platform for drug discovery and personalized medicine**  
AVCI H.  
V. Life Sciences Congress, Turkey, 21 - 22 February 2020
- VI. **Surface modification of polyethylene by a simple post-treatment method**  
Seyhan A., Tepekiran B. N. , POLAT Y., KILIÇ A., DEMİR A., AVCI H.  
VI. International Fiber and Polymer Research Symposium, 24 - 25 January 2020
- VII. **Biomimetic approaches to tissue engineering of organoids**  
AVCI H.  
VI. International Fiber and Polymer Research Symposium, 24 - 25 January 2020
- VIII. **Improving flame retardancy of PE with halogen-free materials**  
Tepekiran B. N. , Seyhan A., POLAT Y., KILIÇ A., DEMİR A., AVCI H.  
VI. International Fiber and Polymer Research Symposium, 24 - 25 January 2020
- IX. **Investigation of immobilization process of screen printed carbon electrode for an advanced biosensor: A detailed characterization**  
Koc Y., Morah U., Erol S., Avci H.  
IV. International Scientific and Vocational Studies Congress – Engineering, Ankara, Turkey, 7 - 10 November 2019, pp.174-177
- X. **Impedance Testing of Porous Si<sub>3</sub>N<sub>4</sub> Scaffolds for Skeletal Implant Applications**  
Akbulut O., Özbek B., Butterworth A., Ghorbanpoor H., Avcioglu G., KOZACI L. D. , TOPATEŞ G., Corrigan D., AVCI H., DOĞAN GÜZEL F.  
5th International Conference on Engineering Sciences, 19 September 2019
- XI. **Developing Biosensors for Food Safety Analysis**  
AVCI H., ANIL H., KOÇ Y., MORALI U., EROL S.  
4th International Congress on Biosensors, Çanakkale, Turkey, 8 - 11 July 2019
- XII. **Developing Biosensors for Food Safety Analysis**  
AVCI H., Anil H., Koc Y., MORALI U., EROL S.  
4th International Congress on Biosensors, 8 - 11 July 2019
- XIII. **Development of Crystal Cleavage for Low Molecular Weight Linear Polymer**  
Seyhan A., Tepekiran B., POLAT Y., KILIÇ A., DEMİR A., AVCI H.  
5th International Fiber and Polymer Research Symposium, Turkey, 2 - 03 May 2019
- XIV. **Anti-Diyabetik Kontrollü İlaç Taşıyıcı Sistemler İçin Elektroçekim Çekirdek/Kabuk Nanoliflerinin Geliştirilmesi**  
Kara Magden G., AVCI H., NURBAŞ M.  
VII. Polymer Science Technology Congress with International Participation, 9 - 12 September 2018
- XV. **A Novel Microfluidic Liver on a Chip Platform for Prediction of Drug Toxicity**  
Kilic T., Shin S. R. , Zhang Y. S. , AVCI H., Dokmeci M., Ali K.  
VII. Polymer Science Technology Congress with International Participation, 9 - 12 September 2018
- XVI. **Production of Core-Shell Nanofibers for Controlled Drug Delivery for Their Potential Application in Wound Healing**  
AVCI H., Ghorbanpoor H., NURBAŞ M.  
VII. Polymer Science Technology Congress with International Participation, 9 - 12 September 2018
- XVII. **Novel Nanofibre Integrated SiN Scaffolds for Skeletal Implant Applications**  
Akbulut S. O. , Ozbek Iptec B., Butterworth A., Ghorbanpoor H., Avcioglu G., Akbas Y., Oksuz S., KOZACI L. D. , TOPATEŞ G., DOĞAN GÜZEL F., et al.  
14th Nanoscience and Nanotechnology Conference, 22 - 25 September 2018
- XVIII. **Robotic Microactuator-Controlled Catheters for Minimally Invasive Surgery**  
AVCI H., Shin S.  
X. International RD Brokerage Event, 8 - 09 March 2018

- XIX. Doğal Antibakteriyal Ajanlar ile Immobilize Edilmiş Elektrospun Nanofiberleri Kullanarak In vitro Yara İyileşmesi**  
AVCI H., Gergeroglu H.  
3rd International Fiber and Polymer Research Symposium, 8 - 09 March 2018
- XX. Production of Magnetic Electrospun Nanofibers for Use in Cancer Therapy**  
Gergeroglu H., AVCI H., Ghorbanpoor H., NURBAŞ M.  
X. International RD Brokerage Event, 8 - 09 March 2018
- XXI. Rapid Prototyping of Whole-Thermoplastic Microfluidics**  
Mousavi Shaegh S. A. , AVCI H., Pourmand A., Zhang Y. S. , Khademhosseini A.  
3rd International Fiber and Polymer Research Symposium, 8 - 09 March 2018
- XXII. Wearable Optical Fiber Sensor for Prolonged Continuous Glucose Monitoring at Point of Care**  
Haider B., AVCI H.  
X. International RD Brokerage Event, 8 - 09 March 2018
- XXIII. Label-Free Glucose-Sensitive Optical Hydrogel Fibers**  
Haider B., AVCI H.  
X. International RD Brokerage Event, 8 - 09 March 2018
- XXIV. İlaç Keşfi İçin Mikroakışkan Teknolojili Çip İçerisinde Kalp**  
AVCI H., Shin S. R. , Zhang Y. S. , Dokmeci M., Khademhosseini A.  
3rd International Fiber and Polymer Research Symposium, 8 - 09 March 2018
- XXV. Development of Ballistic Hybrid Nonwovens by Impregnated with Nanocrystalline Particles**  
AVCI H., Gergeroglu H.  
X. International RD Brokerage Event, 8 - 09 March 2018
- XXVI. Application of Activated Carbon to the Removal of Methylene Blue in Drinking Water**  
Adhami S., Ghorbanpoor H., NURBAŞ M., AVCI H.  
International Congress on Chemistry and Materials Science, 5 - 07 October 2017
- XXVII. Microfluidic Biosensor Integrated Organ-on-a-Chip System for Drug Discovery**  
AVCI H.  
International Congress on Chemistry and Materials Science, 5 - 07 October 2017
- XXVIII. Coaxial-Electrospun Core-Shell Nanofibers for Medical Application**  
NURBAŞ M., Ghorbanpoor H., AVCI H.  
13th Nanoscience and Nanotechnology Conference, 22 - 25 October 2017
- XXIX. An Effective Natural Approach to Synthesize Magnetic Nanoparticles**  
Ghorbanpoor h., AVCI H., NURBAŞ M.  
International Congress on Chemistry And Materials Science, 5 - 07 October 2017
- XXX. Production of Fiber Reinforced Lightweight Construction Material by Recycling of Paint Sludge**  
AVCI H., Ghorbanpoor H., TOPÇU İ. B. , NURBAŞ M.  
IX. International RD Brokerage Event, 27 - 28 April 2017
- XXXI. 3D Örgülü ve Tavuk Tüyü Takviyeli Biyokompozitler**  
NURBAŞ M., Ghorbanpoor H., AVCI H.  
2nd International Fiber and Polymer Research Symposium, 27 - 28 April 2017
- XXXII. 3D Örgülü Ve Tavuk Tüyü Takviyeli Biyokompozitler**  
NURBAŞ M., Ghorbanpoor H., AVCI H.  
2nd International Fiber and Polymer Research Symposium, 27 - 28 April 2017
- XXXIII. Green and Sustainable Approach for Design of Antibacterial Wound Care Dressings**  
AVCI H., Gergeroglu H., Akkulak E., Toptas Y., ÇABUK A.  
International Conference on Engineering Technology and Innovation, 22 - 26 March 2017
- XXXIV. Design of antibacterial and eco friendly wound dressings by using natural additives substance**  
NURBAŞ M., ghorbanpoor h., AVCI H.  
6th International Congress on Nanoscience & Nanotechnology, 26-28 October 2016, Tehran, Iran, 26 - 28 October 2016
- XXXV. Fiber Textile Technology for Musculoskeletal Tissue Engineering Applications**

- Yazdi I., Fallahi A., Costa Almeida R., AVCI H., Tamayol A., Khademhosseini A.  
Biomedical Engineering Society (BMES) Annual Meeting, 5 - 08 October 2016
- XXXVI. **Investigation of 3d Bio Composite Structures Using Vacuum Infusion Method via Chicken Feathers Fibers**  
NURBAŞ M., ghorbanpoor h., AVCI H.  
" IAARHIES 28th International Conference on Engineering & Technology ICET, 18-19 September 2016, Shanghai, China, 18 - 20 September 2016
- XXXVII. **DEVELOPMENT OF COMPOSITE POLYURETHANE FOAM USING ENVIRONMENTALLY FRIENDLY MATERIALS**  
Ozdemir A. U. , Gergeroglu H., AVCI H.  
28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016
- XXXVIII. **Study of Paint Sludge Emissions from Polymeric Composites**  
ghorbanpoor h., Akkulak e., Gergeroglu h., civan l., NURBAŞ M., AVCI H.  
46th IUPAC World Polymer Congress, 17-21 July 2016, Istanbul, Turkey., 17 - 21 July 2016
- XXXIX. **Textile Platform for Musculoskeletal Tissue Engineering**  
Yazdi I., Fallahi A., AVCI H., Tamayol A., Khademhosseini A.  
NIH- Training Grantees Meeting, 11 - 12 July 2016
- XL. **A textile platform using mechanically reinforced hydrogel fibres towards engineering tendon niche**  
Almeida R., Tamayol A., Yazdi I., AVCI H., Fallahi A., Annabi N., Reis R., Gomes M., Khademhosseini A.  
TERMIS-EU 2016, 28 June - 01 July 2016
- XLI. **Dynamic Manipulation of Thermoplastic Elastomer of Poly styrene b ethylene cobutylene b styrene for Engineering Functional Electrospun Nanofibers**  
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