

Assoc. Prof. GÖKHAN DEMİREL

Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2003 - 2006

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2001 - 2003

Undergraduate, Gazi University, Fen Fakültesi, Kimya Bölümü, Turkey 1996 - 2002

Dissertations

Doctorate, Si(100) yüzeyler üzerinde kendiliğinden düzenlenen biyolojik aktiviteye sahip tabakaların tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2006

Postgraduate, Tutuklanmış *Aspergillus niger* kullanılarak sitrik asit üretimi ve sitrik asit üretimi üzerine çeşitli etkilerin incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2002

Research Areas

Biomaterials, Raman Spectroscopy, Sensors, Interface Chemistry, Spectroscopy, Surface Chemistry

Academic Titles / Tasks

Associate Professor, Gazi University, Fen Fakültesi, Kimya, 2012 - Continues

Assistant Professor, Gazi University, Fen Fakültesi, Kimya, 2010 - 2012

Expert, Pennsylvania State University University College Park Campus, Faculty Of Engineering, Material Science And Engineering, 2008 - 2010

Researcher, University College Cork, School of Chemistry, Chemistry, 2007 - 2008

Expert, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik Anabilim Dalı (Disiplinlerarası), 2006 - 2007

Research Assistant, Gazi University, Fen Fakültesi, Kimya, 2002 - 2006

Advising Theses

DEMİREL G., Peptitlerin kendiliğinden düzenlenmesi ile biyo-esinlenilmiş nanoyapıların rasyonel tasarımı, Postgraduate, A.ALIYEVA(Student), 2019

DEMİREL G., Peptitlerin Kendiliğinden Düzenlenmesi İle Biyo-Esinlenilmiş Nanoyapıların Rasyonel Tasarımı, Postgraduate, A.Aliyeva(Student), 2019

DEMİREL G., Production Of Peptide Based 3-D Structure With Physical Vapor Deposition Method, Postgraduate, V.SAHİBBAYLI(Student), 2018

DEMİREL G., Plasmonic Photocatalysis With The Aid Of Three Dimensional Anisotropic Nanostructures, Postgraduate, G.BAKIRCI(Student), 2018

DEMİREL G., Anizotropik ve tek yönde yönelime sahip nanoyapılar içeren damlacık temelli mikroakışkan sistemlerde

kargo taşınması, Postgraduate, B.ÖZDEMİR(Student), 2016

DEMİREL G., Cargo Transportation In Droplet Based Microfluidics Systems Having Anisotropic And Unidirectional Nanostructures, Postgraduate, B.Özdemir(Student), 2016

DEMİREL G., Paper-Based Micro And Macro Fluidic Platforms For Point-Of-Care Testing, Postgraduate, E.BABÜR(Student), 2015

DEMİREL G., Controlling self-assembly mechanism of dipeptides through Manipulation of bio-nano interface, Doctorate, H.Erdoğan(Student), 2015

DEMİREL G., Dipeptitlerin kendiliğinden düzenlenme mekanizmalarının biyo-nano arayüzeyinin değişimi ile kontrolü, Doctorate, H.ERDOĞAN(Student), 2015

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

- I. **Enabling three-dimensional porous architectures via carbonyl functionalization and molecular-specific organic-SERS platforms**
Deneme İ., Liman G., Can A., Demirel G., Usta H.
Nature Communications, vol.12, pp.1-6, 2021 (Journal Indexed in SCI)
- II. **Folding Control of Hydrogel Platforms through Pattern Design and Light Illumination**
Ergene E., LİMAN G., Yıldız E., Yilgor Huri P., DEMİREL G.
ACS Applied Polymer Materials, vol.3, no.7, pp.3272-3277, 2021 (Journal Indexed in SCI)
- III. **Injectable and Self-Healable pH-Responsive Gelatin-PEG/Laponite Hybrid Hydrogels as Long-Acting Implants for Local Cancer Treatment**
Cimen Z., Babadag S., ODABAŞ S., Altuntas S., DEMİREL G., Demirel G. B.
ACS APPLIED POLYMER MATERIALS, vol.3, no.7, pp.3504-3518, 2021 (Journal Indexed in SCI)
- IV. **Hot-Spot Engineering Through Soft Actuators for Surface-Enhanced Raman Spectroscopy (SERS) Applications**
LİMAN G., Yıldız E., İlhan H., Cetin A. E. , DEMİREL G.
ADVANCED OPTICAL MATERIALS, 2021 (Journal Indexed in SCI)
- V. **The Role of Molecular Structure of Phenylalanine Peptides on the Formation of Vertically Aligned Ordered Bionanostructures: Implications for Sensing Application**
Sahibbeyli V., Yıldız D. B. , Papir G., DEDE Y., DEMİREL G.
ACS APPLIED NANO MATERIALS, vol.3, no.5, pp.4305-4313, 2020 (Journal Indexed in SCI)
- VI. **Silver thin film deposited 3-dimensional gold nanorod arrays for plasmonic catalysis**
YILMAZ M., Demirel G. B. , DEMİREL G.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A, vol.38, no.2, 2020 (Journal Indexed in SCI)
- VII. **Molecular engineering of organic semiconductors enables noble metal-comparable SERS enhancement and sensitivity**
DEMİREL G., Giesecking R. L. M. , ÖZDEMİR R., Kahmann S., Loi M. A. , Schatz G. C. , Facchetti A., USTA H.
NATURE COMMUNICATIONS, vol.10, 2019 (Journal Indexed in SCI)
- VIII. **High Electron Mobility in [1]Benzothieno[3,2-b][1]benzothiophene-Based Field-Effect Transistors: Toward n-Type BTBTs**
USTA H., Kim D., ÖZDEMİR R., ZORLU Y., Kim S., Ruiz Delgado M. C. , Harbuzaru A., Kim S., DEMİREL G., Hong J., et al.
CHEMISTRY OF MATERIALS, vol.31, no.14, pp.5254-5263, 2019 (Journal Indexed in SCI)
- IX. **Eco-Friendly Fabrication of Plasmonically Active Substrates Based on End-Grafted Poly(ethylene glycol) Layers**
Ocal S. K. , PEKDEMİR S., Serhatlioglu M., Ipekci H. H. , Sahmetlioglu E., NARİN İ., DUMAN F., ELBÜKEN Ç., DEMİREL G., ÖNSES M. S.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.7, no.4, pp.4315-4324, 2019 (Journal Indexed in SCI)
- X. **Asymmetric, nano-textured surfaces influence neuron viability and polarity**
Belu A., YILMAZ M., Neumann E., Offenhaeusser A., DEMİREL G., Mayer D.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.106, no.6, pp.1634-1645, 2018 (Journal Indexed in

SCI)

- XI. **Surface-enhanced Raman spectroscopy (SERS): an adventure from plasmonic metals to organic semiconductors as SERS platforms**
DEMİREL G., USTA H., YILMAZ M., Celik M., Alidagi H. A. , BÜYÜKSERİN F.
JOURNAL OF MATERIALS CHEMISTRY C, vol.6, no.20, pp.5314-5335, 2018 (Journal Indexed in SCI)
- XII. **Fabrication of Plasmonically Active Substrates Using Engineered Silver Nanostructures for SERS Applications**
ŞAKİR M., PEKDEMİR S., KARATAY A., Kucukoz B., Ipekci H. H. , ELMALI A., DEMİREL G., ÖNSES M. S.
ACS APPLIED MATERIALS & INTERFACES, vol.9, no.45, pp.39795-39803, 2017 (Journal Indexed in SCI)
- XIII. **Nanostructured organic semiconductor films for molecular detection with surface-enhanced Raman spectroscopy**
YILMAZ M., Babur E., Ozdemir M., Giesecking R. L. , DEDE Y., TAMER U., Schatz G. C. , Facchetti A., USTA H., DEMİREL G.
NATURE MATERIALS, vol.16, no.9, pp.918-925, 2017 (Journal Indexed in SCI)
- XIV. **Measuring Temperature Change at the Nanometer Scale on Gold Nanoparticles by Using Thermoresponsive PEGMA Polymers**
Yavuz M. S. , Citir M., ÇAVUŞOĞLU H., DEMİREL G.
CHEMNANOMAT, vol.3, no.7, pp.496-502, 2017 (Journal Indexed in SCI)
- XV. **Three-Dimensional Au-Coated Electrospayed Nanostructured BODIPY Films on Aluminum Foil as Surface-Enhanced Raman Scattering Platforms and Their Catalytic Applications**
YILMAZ M., ERKARTAL M., Ozdemir M., Sen U., USTA H., DEMİREL G.
ACS APPLIED MATERIALS & INTERFACES, vol.9, no.21, pp.18199-18206, 2017 (Journal Indexed in SCI)
- XVI. **Understanding the effect of polydopamine coating on catalytic reduction reactions**
Bakirci G., YILMAZ M., Babur E., Ozden D., DEMİREL G.
CATALYSIS COMMUNICATIONS, vol.91, pp.48-52, 2017 (Journal Indexed in SCI)
- XVII. **Fabrication of Plasmonic Nanorod-Embedded Dipeptide Microspheres via the Freeze-Quenching Method for Near-Infrared Laser-Triggered Drug-Delivery Applications**
Erdogan H., YILMAZ M., Babur E., DUMAN M., Aydin H. M. , DEMİREL G.
BIOMACROMOLECULES, vol.17, no.5, pp.1788-1794, 2016 (Journal Indexed in SCI)
- XVIII. **Design and development of functional organic small molecules and polymers for optoelectronics**
USTA H., DEMİREL G., Facchetti A., Muccini M.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.251, 2016 (Journal Indexed in SCI)
- XIX. **The fabrication of plasmonic nanoparticle-containing multilayer films via a bio-inspired polydopamine coating**
Yilmaz M., Bakirci G., Erdogan H., Tamer U., DEMİREL G.
RSC ADVANCES, vol.6, no.15, pp.12638-12641, 2016 (Journal Indexed in SCI)
- XX. **Micro-/Nanostructured Highly Crystalline Organic Semiconductor Films for Surface-Enhanced Raman Spectroscopy Applications**
YILMAZ M., Ozdemir M., Erdogan H., TAMER U., Sen U., Facchetti A., USTA H., DEMİREL G.
ADVANCED FUNCTIONAL MATERIALS, vol.25, no.35, pp.5669-5676, 2015 (Journal Indexed in SCI)
- XXI. **Light-Driven Unidirectional Liquid Motion on Anisotropic Gold Nanorod Arrays**
YILMAZ M., Kuloglu H. B. , Erdogan H., Cetin S. Ş. , YAVUZ M. S. , İNCE G., DEMİREL G.
ADVANCED MATERIALS INTERFACES, vol.2, no.12, 2015 (Journal Indexed in SCI)
- XXII. **Nanostructured functional thin films through vapor phase deposition: A BIMREL's approach to bioinspiration**
DEMİREL G.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.250, 2015 (Journal Indexed in SCI)
- XXIII. **New method for measuring the temperature change of photothermal Au nanostructures using smart polymers**
ÇAVUŞOĞLU H., Sakalak H., Buyukbekar B. Z. , DEMİREL G., Citir M., YAVUZ M. S.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.250, 2015 (Journal Indexed in SCI)

- XXIV. **Measuring temperature change on photothermal Au nanorod and nanocage upon laser irradiation**
ÇAVUŞOĞLU H., Sakalak H., Buyukbekar B. Z. , DEMİREL G., Citir M., YAVUZ M. S.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.250, 2015 (Journal Indexed in SCI)
- XXV. **Morphological Versatility in the Self-Assembly of Val-Ala and Ala-Val Dipeptides**
Erdogan H., Babur E., YILMAZ M., Candas E., GÖRDESEL YILDIZ M., DEDE Y., ÖREN E. E. , Demirel G. B. , Ozturk M. K.
, YAVUZ M. S. , et al.
LANGMUIR, vol.31, no.26, pp.7337-7345, 2015 (Journal Indexed in SCI)
- XXVI. **Nanothermometer: Measuring temperature change in nanometer scale on photothermal Au nanoparticles**
Sakalak H., Cavusoglu H., Buyukbekar B. Z. , DEMİREL G., Citir M., Yavuz M. S.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.249, 2015 (Journal Indexed in SCI)
- XXVII. **Determining temperature change on photothermal Au nanorod and Au nanocage using smart polymers**
Buyukbekar B. Z. , Cavusoglu H., Sakalak H., Citir M., DEMİREL G., Yavuz M. S.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.249, 2015 (Journal Indexed in SCI)
- XXVIII. **Large area uniform deposition of silver nanoparticles through bio-inspired polydopamine coating on silicon nanowire arrays for practical SERS applications**
Akin M. S. , YILMAZ M., Babur E., Ozdemir B., Erdogan H., TAMER U., DEMİREL G.
JOURNAL OF MATERIALS CHEMISTRY B, vol.2, no.30, pp.4894-4900, 2014 (Journal Indexed in SCI)
- XXIX. **Vapor-phase deposition of polymers as a simple and versatile technique to generate paper-based microfluidic platforms for bioassay applications**
DEMİREL G., Babur E.
ANALYST, vol.139, no.10, pp.2326-2331, 2014 (Journal Indexed in SCI)
- XXX. **Combining 3-D plasmonic gold nanorod arrays with colloidal nanoparticles as a versatile concept for reliable, sensitive, and selective molecular detection by SERS**
YILMAZ M., Senlik E., Biskin E., YAVUZ M. S. , TAMER U., DEMİREL G.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.16, no.12, pp.5563-5570, 2014 (Journal Indexed in SCI)
- XXXI. **Plasmon-Enhanced Photocatalysis on Anisotropic Gold Nanorod Arrays**
Kubus L., Erdogan H., Cetin S. Ş. , Biskin E., DEMİREL G.
CHEMCATCHEM, vol.5, no.10, pp.2973-2977, 2013 (Journal Indexed in SCI)
- XXXII. **Bioinspired surface modification of poly(2-hydroxyethyl methacrylate) based microbeads via oxidative polymerization of dopamine**
Yilmaz F., Kose K., Sari M. M. , DEMİREL G., UZUN L., DENİZLİ A.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.109, pp.176-182, 2013 (Journal Indexed in SCI)
- XXXIII. **One-Dimensional Surface-Imprinted Polymeric Nanotubes for Specific Biorecognition by Initiated Chemical Vapor Deposition (iCVD)**
İNCE G., Armagan E., Erdogan H., BÜYÜKSERİN F., UZUN L., DEMİREL G.
ACS APPLIED MATERIALS & INTERFACES, vol.5, no.14, pp.6447-6452, 2013 (Journal Indexed in SCI)
- XXXIV. **Laser-Triggered Degelation Control of Gold Nanoparticle Embedded Peptide Organogels**
Erdogan H., Sakalak H., Yavuz M. S. , DEMİREL G.
LANGMUIR, vol.29, no.23, pp.6975-6982, 2013 (Journal Indexed in SCI)
- XXXV. **Small molecule analysis using laser desorption/ionization mass spectrometry on nano-coated silicon with self-assembled monolayers**
ÇELİKBIÇAK Ö., DEMİREL G., Piskin E., SALİH B.
ANALYTICA CHIMICA ACTA, vol.729, pp.54-61, 2012 (Journal Indexed in SCI)
- XXXVI. **Isotropic and anisotropic dipeptide films based on gas phase deposition**
DEMİREL G., TAMER U.
NANOTECHNOLOGY, vol.23, no.22, 2012 (Journal Indexed in SCI)
- XXXVII. **Core-shell magnetic nanoparticles: a comparative study based on silica and polydopamine coating for magnetic bio-separation platforms**
Sahin F., Turan E., TÜMTÜRK H., DEMİREL G.

- ANALYST, vol.137, no.23, pp.5654-5658, 2012 (Journal Indexed in SCI)
- XXXVIII. **Controlling uni-directional wetting via surface chemistry and morphology**
Kubus L., Erdogan H., Piskin E., DEMİREL G.
SOFT MATTER, vol.8, no.46, pp.11704-11707, 2012 (Journal Indexed in SCI)
- XXXIX. **Nanoporous Polymeric Nanofibers Based on Selectively Etched PS-b-PDMS Block Copolymers**
Demirel G. B., BÜYÜKSERİN F., Morris M. A., DEMİREL G.
ACS APPLIED MATERIALS & INTERFACES, vol.4, no.1, pp.280-285, 2012 (Journal Indexed in SCI)
- XL. **Green catalysts based on bio-inspired polymer coatings and electroless plating of silver nanoparticles**
Celen B., Ekiz D., Piskin E., DEMİREL G.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.350, pp.97-102, 2011 (Journal Indexed in SCI)
- XLI. **Surface-Induced Self-Assembly of Dipeptides onto Nanotextured Surfaces**
DEMİREL G., BÜYÜKSERİN F.
LANGMUIR, vol.27, no.20, pp.12533-12538, 2011 (Journal Indexed in SCI)
- XLII. **Micro-array versus nano-array platforms: a comparative study for ODN detection based on SPR enhanced ellipsometry**
Celen B., DEMİREL G., Piskin E.
NANOTECHNOLOGY, vol.22, no.16, 2011 (Journal Indexed in SCI)
- XLIII. **Molecularly imprinted hydrogels for fibrinogen recognition**
Cimen D., Akbulut E., DEMİREL G., ÇAYKARA T.
REACTIVE & FUNCTIONAL POLYMERS, vol.69, no.9, pp.655-659, 2009 (Journal Indexed in SCI)
- XLIV. **Functional polymeric supports for immobilization of cholesterol oxidase**
Akkaya B., Sahin F., DEMİREL G., TÜMTÜRK H.
BIOCHEMICAL ENGINEERING JOURNAL, vol.43, no.3, pp.333-337, 2009 (Journal Indexed in SCI)
- XLV. **Hemoglobin recognition of molecularly imprinted hydrogels prepared at different pHs**
Uysal A., DEMİREL G., Turan E., ÇAYKARA T.
ANALYTICA CHIMICA ACTA, vol.625, no.1, pp.110-115, 2008 (Journal Indexed in SCI)
- XLVI. **Immobilization of glucose isomerase in surface-modified alginate gel beads**
TÜMTÜRK H., DEMİREL G., ALTINOK H., Aksoy S., HASIRCI N.
JOURNAL OF FOOD BIOCHEMISTRY, vol.32, no.2, pp.234-246, 2008 (Journal Indexed in SCI)
- XLVII. **Chemisorption of 3-aminopropyltrimethoxysilane on Si(001)-(2 x 2)**
DEMİREL G., ÇAKMAK M., Caykara T., Ellialtioglu S.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.111, no.41, pp.15020-15025, 2007 (Journal Indexed in SCI)
- XLVIII. **Construction of a novel multilayer system and its use for oriented immobilization of immunoglobulin G**
DEMİREL G., Caykara T., Akaoglu B., ÇAKMAK M.
SURFACE SCIENCE, vol.601, no.19, pp.4563-4570, 2007 (Journal Indexed in SCI)
- XLIX. **Binding formation of 12-hydroxydodecanoic acid on Si(001)-(2 x 2)**
Demirel G., Çakmak M., Caykara T.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.111, pp.4375-4378, 2007 (Journal Indexed in SCI)
- L. **A new method for immobilization of acetylcholinesterase**
Tumturk H., Sahin F., DEMİREL G.
BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.30, no.2, pp.141-145, 2007 (Journal Indexed in SCI)
- LI. **Preparation and application of poly(N,N-dimethylacrylamide-co-acrylamide) and poly(N-isopropylacrylamide-co-acrylamide)/kappa-Carrageenan hydrogels for immobilization of lipase**
Tumturk H., Karaca N., DEMİREL G., Sahin F.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.40, no.3, pp.281-285, 2007 (Journal Indexed in SCI)
- LII. **Temperature-responsive characteristics of poly (N-isopropylacrylamide) hydrogels with macroporous structure**
Caykara T., Kiper S., DEMİREL G., Demirci S., Cakanyildirim C.

- POLYMER INTERNATIONAL, vol.56, no.2, pp.275-282, 2007 (Journal Indexed in SCI)
- LIII. **Adsorption of bovine serum albumine onto poly (N-t-butylacrylamide-co-acrylamide/maleic acid) hydrogels**
DEMİREL G.
JOURNAL OF POLYMER RESEARCH, vol.14, no.1, pp.23-30, 2007 (Journal Indexed in SCI)
- LIV. **pH-Dependent swelling behavior and network parameters of ionic poly(N-t-butylacrylamide-co-acrylamide) hydrogels**
Turan E., DEMİREL G., Zengin M., Simsek D., Caykara T.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.2, pp.1624-1630, 2006 (Journal Indexed in SCI)
- LV. **Network parameters and volume phase transition behavior of poly(N-isopropylacrylamide) hydrogels**
Caykara T., Kiper S., DEMİREL G.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.101, no.3, pp.1756-1762, 2006 (Journal Indexed in SCI)
- LVI. **Immobilization of urease by using chitosan-alginate and poly(acrylamide-co-acrylic acid)/kappa-carrageenan supports**
Kara F., DEMİREL G., Tümtürk H.
BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.29, no.3, pp.207-211, 2006 (Journal Indexed in SCI)
- LVII. **Semi-interpenetrating polymer networks (IPNs) for entrapment of glucose isomerase**
DEMİREL G., Özcetin G., Sahin F., Tümtürk H., Aksoy S., HASIRCI N.
REACTIVE & FUNCTIONAL POLYMERS, vol.66, no.4, pp.389-394, 2006 (Journal Indexed in SCI)
- LVIII. **Thermosensitive poly(N-isopropylacrylamide-co-acrylamide) hydrogels: Synthesis, swelling and interaction with ionic surfactants**
Caykara T., Kiper S., DEMİREL G.
EUROPEAN POLYMER JOURNAL, vol.42, no.2, pp.348-355, 2006 (Journal Indexed in SCI)
- LIX. **A novel matrix for the immobilization of acetylcholinesterase**
Sahin F., DEMİREL G., Tümtürk H.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.37, no.3, pp.148-153, 2005 (Journal Indexed in SCI)
- LX. **pH/temperature-sensitive imprinted ionic poly (N-tert-butylacrylamide-co-acrylamide/maleic acid) hydrogels for bovine serum albumin**
DEMİREL G., Özcetin G., Turan E., Caykara T.
MACROMOLECULAR BIOSCIENCE, vol.5, no.10, pp.1032-1037, 2005 (Journal Indexed in SCI)
- LXI. **Influence of alcohols on citric acid production by Aspergillus niger A-9 entrapped in polyacrylamide gels**
Yaykasli K., DEMİREL G., Yasar A.
JOURNAL OF FOOD ENGINEERING, vol.70, no.4, pp.518-522, 2005 (Journal Indexed in SCI)
- LXII. **Binary immobilization of tyrosinase by using alginate gel beads and poly(acrylamide-co-acrylic acid) hydrogels**
Yahsi A., Sahin F., DEMİREL G., Tümtürk H.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.36, no.4, pp.253-258, 2005 (Journal Indexed in SCI)
- LXIII. **The production of citric acid by using immobilized Aspergillus niger A-9 and investigation of its various effects**
DEMİREL G., Yaykasli K., Yasar A.
FOOD CHEMISTRY, vol.89, no.3, pp.393-396, 2005 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **CuO/TiO₂ Metal Oxide Nanocomposite Synthesis via Room Temperature Ionic Liquid**
EŞMEKAYA M. A. , ŞENTÜRK F., KAYHAN H., TÜYSÜZ M. Z. , TOMRUK A., ARAL B., DEMİREL G., AKIN SÖNMEZ N.,

Books & Book Chapters

I. Biyoesinlenmiş Fonksiyonel Malzemeler

erdoğan H., YILMAZ M., Özden D., DEMİREL G.

in: İleri Malzemeler: Biyomalzeme ve Nanomalzeme Uygulamaları, Filiz Kuralay, Editor, Hacettepe Üniversitesi, Ankara, pp.89-115, 2018

Refereed Congress / Symposium Publications in Proceedings

I. Nanostructured Functional Thin Films and Their SERS Applications

DEMİREL G.

NANOTR-15, 3 - 06 November 2019

II. Surface-enhanced Raman spectroscopy (SERS): An adventure from plasmonic metals to organic semiconductors as SERS platforms

DEMİREL G.

2. EBAT Congress, 26 - 29 October 2019

III. Use of Surface Enhanced Raman Spectroscopy as a Tool for Detection of 6-Mono Acetyl Morphine (6-MAM)

Akcan R., Yıldırım M., İlhan H., DEMİREL G., Tamer U., Sağlam N.

6th International Conference: Thermophysical and mechanical Properties of Advanced Materials, 22 - 24 September 2019

IV. Measurements of 6-monoacetylmorphine in body fluids using surface enhanced raman spectroscopy

AKÇAN R., YILDIRIM M. Ş. , İLHAN H., DEMİREL G., TAMER U., SAĞLAM N.

20th euroanalysis, 1 May - 05 September 2019

V. Organic semiconductor based surface-enhanced Raman spectroscopy platforms

DEMİREL G., USTA H., Facchetti A.

256th National Meeting and Exposition of the American-Chemical-Society (ACS) - Nanoscience, Nanotechnology and Beyond, Massachusetts, United States Of America, 19 - 23 August 2018, vol.256

VI. On-site formation of Ag nanostructures and their SERS activity

Sakr M., DEMİREL G., Önses M. S.

13th Nanoscience and Nanotechnology Conference, 22 - 25 October 2017

VII. Nanostructured Functional Thin Films through Vapor Phase Deposition

DEMİREL G.

International Congress on Chemistry and Material Science, 5 - 07 October 2017

VIII. Plazmonik Isıtma Yaklaşımı ile Peptit Moleküllerinin Kontrollü Kristalizasyonu

Aliyeva A., DEMİREL G.

Fiziksel Kimya Kongresi, Turkey, 15 - 18 May 2017

IX. Nanostructured superhydrophobic organic semiconductor films enable sub-zeptomole level molecular sensing in surface-enhanced Raman spectroscopy

DEMİREL G., USTA H., Facchetti A.

253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253

X. BIMREL yaklaşımı ile fonksiyonel 3 boyutlu malzeme üretimi

DEMİREL G.

3. Biyomalzeme Günü, Turkey, 17 - 18 November 2016

XI. Vapor phase deposition of polymers as a simple and versatile technique to generate paper based

microfluidic platforms for bioassay applications

babür e., DEMİREL G.

3rd International Congress on Biosensors, 5 - 07 October 2016

- XII. **Thin Films of p type Organic Semiconductors as SERS substrates**
YILMAZ M., Özden D., USTA H., DEMİREL G.
3rd International Congress on Biosensors, 5 - 07 October 2016
- XIII. **Polydopamine coated S1NWs target surfaces for the detection of small molecules in laser desorption ionization mass spectrometry**
Şanlı G., DEMİREL G., ÇELİKBIÇAK Ö.
3rd International Congress on Biosensors, 5 - 07 October 2016
- XIV. **Self powering biosensors for biofuel cell applications**
Dündar N., YILMAZ M., DEMİREL G., KURALAY F.
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