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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği Bölümü, Turkey 2001 - 2009
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği Bölümü, Turkey 1998 - 2001
Undergraduate, Istanbul Technical University, Fen Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1994 - 1998

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Seçilmiş Hedef Moleküllere Duyarlı Polimerik Jel Sentezi ve Fiziksel Parametrelerin Seçiciliğe Etkisi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği, 2009
Postgraduate, İçme Suyundaki Radyoaktivitenin Belirlenmesi ve Yıllık Doz Eşdeğerinin Hesaplanması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği, 2001

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Chemistry, Physical Chemistry, Polymeric Materials, Natural Sciences, Engineering and Technology

Jury Memberships

Competition, Tübiitak Liseler Arası Proje Yarışması, Tübitak, June, 2016
Doctorate, Doktora Tez İzleme Jüri Üyeliği, İstanbul Teknik Üniversitesi, Fen Bilimleri Ens., Fizik Bölümü, January, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Effect of dealloying the redox-active zinc-based electrodes on the performance of asymmetric supercapacitors**
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V. **Hydrogel Based Anodization: A Novel Technique to Form Ordered Nano-sized Porous Oxide Layer on the Aluminum Surface**
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VII. **Electrodeposition of zinc and reduced graphene oxide on porous nickel electrodes for high performance supercapacitors**
Yılmaz İ., Gelir A., YARGI Ö., Sahinturk U., ÖZDEMİR O. K.
Journal of Physics and Chemistry of Solids, vol.138, 2020 (SCI-Expanded)

VIII. **How the Reduced Graphene Oxide Prepared at Different pH Values Affect the Optical Transmittance and the Electrical Properties of Polystrene Latex Films?**
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IX. **New ferrocenyl naphthoquinone fused crown ether chemosensors: Highly selective, kinetically and regio controlled colorimetric, beryllium ion recognition**
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X. **Effect of IR heating and the annealing time on the optical transmittance of polystyrene/Na-Alginate polymer composite films**
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XI. **Monitoring the film formation process of polystyrene/poly acrylamide (PS/PAAm) composite films annealed by IR heating**
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XII. **Synthesis and photophysical properties of a porphyrin-BODIPY dyad and a porphyrin-o-carborane-BODIPY triad**
BERKSUN E., NAR I., Atsay A., Özçeşmeci İ., Gelir A., Hamuryudan E.
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XIII. **Elucidation of the pore size and temperature dependence of the oxygen diffusion into porous silicon**
Gelir A., YARGI Ö., Yuksel S. A.

Thin Solid Films, vol.636, pp.602-607, 2017 (SCI-Expanded)

XIV. **Role of ion conducting polymeric electrolyte in suppressing deterioration of cathode electrodes in dye-sensitized solar cells**
Gürbüz O., Gelir A., ERDEN İ., Fırat Y., OKUTAN M.
Dyes and Pigments, vol.134, pp.269-275, 2016 (SCI-Expanded)

XV. **How the internal structures of the imprinted and the random hydrogels change upon washing?**
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XVI. **A new method to synthesize ZnO nanoparticles with size gradient in PNIPAM polymer matrix**
Celebioglu N., Gelir A., Yılmaz Y.
COLLOID AND POLYMER SCIENCE, vol.294, no.6, pp.1045-1054, 2016 (SCI-Expanded)

XVII. **How the infrared radiation affects the film formation process from latexes?**
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XVIII. **Pyranine Doped Hydrogel Based pH-Strips for Low pH Regions**
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XIX. **Polyacrylamide Hydrogel as an Electrolyte for Oxidation-Based Organic Rectifiers**
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POLYMER ENGINEERING AND SCIENCE, vol.55, no.2, pp.406-413, 2015 (SCI-Expanded)

XX. **Synthesis and photophysical properties of indium(III) phthalocyanine derivatives**
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XXII. **Controlling the Size and the Stability of Magnetic Clusters Formed in Polyacrylamide Hydrogels via Cobalt-Anionic Fluoroprobe Interactions**
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XXIII. **Theoretical Confirmation of In Situ Monitoring of Monomer Conversion During Acrylamide Polymerization via Pyranine Flouroprobe**
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Yılmaz Y., GELIR A., ALVEROGLU E., UYSAL N.
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XXVII. **In situ monitoring of the synthesis of a pyranine-substituted phthalonitrile derivative via the steady-state fluorescence technique**
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XXVIII. **Dielectric study of neutral and charged hydrogels during the swelling process**

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XXIX. **Studying the sol-gel transition of styrene-divinyl benzene crosslinking co-polymerization via excimer forming dye molecules**
Gelir A., AKTAS D. K., CIANGA I., CIANGA L., Yagci Y., Yilmaz Y.
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XXX. **Earthquake-related chemical and radioactivity changes of thermal water in Kuzuluk-Adapazari, Turkey**
BELIN B., YALCIN T., Suner F., BOZKURTOGLU E., GELIR A., GUVEN H.
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Articles Published in Other Journals

I. **Developing an Image Processing-Based Method to Objectively Decide the Conspicuousness of Permanent Facial Scar**
GELİR A., ŞEN YILMAZ A., AŞICIOĞLU F., Kadi Ö. F., Yildirim K. B., Okudan M., Gürpınar K.
Int J Eth Trauma Victimology, vol.7, no.2, 2021 (Peer-Reviewed Journal)

II. **Image processing for quantitative measurement of e/m in the undergraduate laboratory**
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Physics Education, vol.54, no.5, 2019 (Scopus)

III. **DETERMINATION OF ACTIVATION ENERGIES AND TENSILE CHARACTERISTICS OF POLYMER LATEXES DEPENDING ON DIFFERENT HEATING METHODS AND THICKNESSES**
Yargi O., AKSAKAL B., GELİR A., Elaissari A.
Materials, Methods & Technologies, vol.10, pp.263-272, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Polymer Gels from Biopolymers**
Alveroğlu Durucu E., Gelir A., Yılmaz Y.
in: Handbook of Biopolymer-Based Materials: From Blends and Composites to Gels and Complex Networks, Dominique D., Jyotishkumar P., Editor, Wiley Vch, Londra, pp.279-306, 2013

Refereed Congress / Symposium Publications in Proceedings

I. **A novel technique based on 3D scanning for quantitative analysis of the indentations in documents**
Pekacar I., GELİR A., ŞEN YILMAZ A., AŞICIOĞLU F., Özdemir O. B., Bilen E.
3rd International Eurasian Conference on Science, Engineering and Technology, 15 - 17 December 2021

II. **Design a holder with light source and a port for fiberoptic based spectrophotometer for testing the gas sensors**
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3rd International Eurasian Conference on Science, Engineering and Technology, 15 - 17 December 2021

III. **A Practical Technique Based on Laser Etching to Design Interdigitated Electrodes for Supercapacitors**
Aghabalapoor Keshtiban N., GELİR A., Güldikti B., Ozturk T. P.
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IV. **Synthesis and characterization of doped solid gel electrolytes for supercapacitors**
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V. **Analysis (Differentiation) of Different Crossing Ink Lines by Using 3D Scanner and Optical Profilometry**
AŞICIOĞLU F., GELİR A., Yılmaz Şen A., Kadi Ö. F.
13. INPALMS Congress, Dhaka, Bangladesh, 9 - 13 December 2019

VI. **Forensic Diagnosis Device for Permanent Faacial Scar**
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VII. **YSI tespitinde Teknoloji Kullanımı**
GELİR A., AŞICIOĞLU F., Yalçın O., ŞEN YILMAZ A., Yalçın D.
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VIII. **ADLİ TIPTA İNOVATİF YAKLAŞIMLAR: YÜZDE SABİT İZ TANISINDA ÖZNELLİKTEN NESNELLİĞE (BU AMAÇLA OPTOMEKANİK SİSTEM TASARIMI)**
AŞICIOĞLU F., GELİR A., Yalçın O., ŞEN YILMAZ A., Yalçın D.
15. Adli Bilimler Kongresi, Turkey, 12 April 2018

IX. **Image Processing Technique for Precise Measurement of the e/m Ratio**
GELİR A., Kocaman M., Pekacar I.
2. International Rating Academy Congress on Hope, 19 - 21 April 2018

X. **The synthesis of new bis(2-morpholinophenoxy)ethylene glycol podands and the interactions with cations**
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TRAMECH VIII, Antalya, Turkey, 11 November 2015

XI. **The synthesis of new bis(2'-morpholinophenoxy)ethylene glycol podands and the interaction with cations**
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Trans mediterranean colloquium on heterocyclic chemistry TRAMECH VIII, Antalya, Turkey, 11 - 15 November 2015, pp.123

XII. **Fast and Effective Formation of Nano-sized Porous Structures in Anodic Oxidation by Hydrogel-Based Electrolyte**
Tabanlı S., Kalaycı E., Gelir A., Yılmaz Y.
9th International Physics Conference of the Balkan Physical Union - BPU9, İstanbul, Turkey, 24 - 27 August 2015, pp.562

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XIV. **Steady-state fluorescence measurement of ZnO Nanoparticles Synthesized in polyacyrlamide hydrogel**
Celebioglu N., GELİR A., YILMAZ Y.
HETECh 2014, Germany, 17 October 2014

XV. **Effect of hydrogel-based electrolytes on the formation of nano-sized porous structures in anodic oxidation**
Tabanlı S., Gelir A., Yılmaz Y.
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XVI. **Stability of the Gel-Based Electrolyte for the Organic Rectifiers**
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(ISSTC 2014) 1st International Semiconductor Science and Technology Conference, İstanbul, Turkey, 13 - 15 January 2014, pp.70

XVII. **Synthesis of ZnO nanocrystal in a polymer matrix**
Celebioglu N., GELİR A., YILMAZ Y.

Advanced Materials World Congress, İzmir, Turkey, 16 September 2013

XVIII. **Diffusion enegies and oxygen diffusion coefficients of porous silicon**
Yargi O., Yuksel S. A., GELİR A., KOÇ K.
TURCMOS 2013, İstanbul, Turkey, 15 September 2013

XIX. **Elucidation of the porous size dependence of the oxygen diffusion into porous silicon by using fluorescence technique**
GELİR A., KOÇ K., Yargi O., Yuksel S. A.
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XX. **I-V Characteristics of Aluminum/Polyacrylamide Hydrogel Interface**
Tabanlı S., Gelir A., Yılmaz Y.
(AMWC 2013) Advanced Materials World Congress, İzmir, Turkey, 16 - 19 September 2013

XXI. **Time Evolution of Multiple Point Interactions of Pyranine Fluoroprobe with Polyacrylamide Chains During the Polymerization Experiment and Simulation**
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MAF 12: 12th Conference on Methods and Applications of Fluorescence: Spectroscopy, Imaging and Probes, Strasburg, France, 11 - 14 September 2011

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Sozeri H., GELIR A., ALVEROGLU E., TULUN M., YILMAZ Y.
International Conference on Superconductivity and Magnetism (ICSM), Side, Turkey, 25 - 29 August 2008, vol.153

XXIII. **Swelling Behavior of Chemically Ion-Doped Hydrogels**
Alveroglu E., GELIR A., YILMAZ Y.
48th Microsymposium on Polymer Colloids - From Design to Biomedical and Industrial Applications, Prague, Czech Republic, 20 - 24 July 2008, vol.281, pp.174-180

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XXV. **Fluorescence spectroscopy technique to investigate the binding process in imprinted gels**
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1st European Chemistry Congress, Hungary, 27 August 2006

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ICPP-4, Turkey, 02 July 2006

Supported Projects

Gelir A., Alveroğlu Durucu E., BAL ÖZTÜRK A., SALEHLİ F., Project Supported by Higher Education Institutions, Modifiye aljinat ve hyaluronik asit temelli iletken hidrojellerin kendiliğinden iyileşme (self healing) sürecinin dielektrik spektroskopisi yöntemiyle incelenmesi, 2023 - Continues

Yavuz N., Güner F. S., Gelir A., HASDEMİR I., GÜR F., Özcan K., Project Supported by Higher Education Institutions, Elektrikli araçlarda enerji depolama kapasitesinin arttırılması amacıyla süperkapasitif kaplamaların elde edilebilmesi için püskürtme tabanlı kaplama yönteminin geliştirilmesi ve uygulaması, 2023 - Continues

Gelir A., Kılıç A., YURTSEVER Y., YAPICI K., GÜLEÇ Ö. F., ÖZDEMİR Y., Project Supported by Higher Education Institutions, Mikroplakaya adapte edilebilen monokromatör tabanlı absorbsiyon sisteminin geliştirilmesi, 2023 - Continues

Gelir A., Yavuz N., Yarar Kaplan B., Dönmez K., Bayazıt M. K., Güner F. S., Yürüm A., TUBITAK Project, Elektrikli araçlar için süperkapasitif kaplama malzemelerinin geliştirilmesi, 2023 - 2027

Gelir A., AS N., DÜNDAR T., Tunga B., TUBITAK Project, Ağaç Malzemelerin Tahribatsız Değerlendirmesi için Akustik Tabanlı Ölçüm Sistemi Tasarımı, 2021 - 2023
Gelir A., Sayın D., Project Supported by Higher Education Institutions, Floresans tabanlı gaz sensörleri için bilgisayar kontrollü test sistemi tasarımı, 2021 - 2022
Gelir A., KADI Ö. F., SEYHAN S. N., ÖZDEMİR S., ÖZDEMİR O. B., YILDIRIM K. B., Project Supported by Higher Education Institutions, Optik tabanlı glikoz derişimi ölçüm cihazı tasarımı, 2019 - 2021
Gelir A., Gömleksiz A., Project Supported by Higher Education Institutions, Metal yüzeylerde oksit tabakası oluşumunda polimer malzemelerinin etkisinin incelenmesi, 2018 - 2020
Gelir A., Yılmaz İ., TUBITAK Project, Eser Miktarda Be2+ İyonunun Seçici Ve Hassas Şekilde Tayin Edilmesi İçin Spektrofotometrik Ve Voltametrik Titrasyon Ölçüm Yöntemlerine Dayanan Ftalosiyanin Tabanlı Kimyasal Sensör Tasarımı, 2017 - 2019
Gelir A., AŞICIOĞLU F., TUBITAK Project, Ceza ve Tazminat Davalarındaki Yüzde Sabit İz Tespitinin Standardizasyonunu Sağlayacak Entegre Cihaz Tasarımı, 2017 - 2018
Gelir A., TUBITAK Project, Ftalosiyenine duyarlı polimerik jel sentezi ve floresans spektroskopisi yöntemiyle etkileşimlerin izlenmesi, 2005 - 2006

Patent

Gelir A., Turgay B., BİRLEŞİK STEP MOTOR, Patent, CHAPTER H Electricity, The Invention Registration Number: TR 2019 10631 B , Standard Registration, 2021
Aşıcıoğlu F., Gelir A., YÜZDE SABİT İZ TESPİTİNİN STANDARDİZASYONUNU SAĞLAYACAK ENTEGRE CİHAZ, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2016 18670 B , Standard Registration, 2021
Aşıcıoğlu F., Gelir A., Kafatası Travmalarına Bağlı Kemik Hasarlarında Defektin Tespiti ve Yüzey Alanının Hesabı İçin Geliştirilen Cihaz, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2017 23338 B , Standard Registration, 2020
Gelir A., Polimerik jel tabanlı bir anodik oksidasyon sistemi, Patent, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2017

Activities in Scientific Journals

SCIREA Journal of Materials, Publication Committee Member, 2017 - Continues

Memberships / Tasks in Scientific Organizations

Polymeric Materials: Science and Engineering Division, Member, 2017 - Continues

Scientific Refereeing

IOP Conference Series: Materials Science and Engineering (MSE), National Scientific Refreed Journal, November 2017
Turkish Journal of Physics, Other Indexed Journal, July 2017
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Metrics

Publication: 65
Citation (WoS): 223
Citation (Scopus): 264

H-Index (WoS): 10
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Awards

Gelir A., ISIF'22 - INTERNATIONAL INVENTIONS FAIR (ISIF), Isif'22, September 2022
Gelir A., ISIF'21 - INTERNATIONAL INVENTIONS FAIR (ISIF), Isif'21, September 2021