

Prof. HASAN YÜKSEL GÜNEY

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1984 - 1990

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1973 - 1977

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Mechanical and Acoustic Properties of Condensed Matter, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Natural Sciences

Academic Titles / Tasks

Professor, Kocaeli University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - Continues

Associate Professor, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1997 - 2002

Assistant Professor, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1991 - 1997

Research Assistant, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1980 - 1990

Academic and Administrative Experience

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2017

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2009

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Dielectric behavior and proton conductivity of ultrasound-assisted graphene oxide/sulfonated

poly(ether ether ketone) composite electrolytes

Abacı U., Çoban E., Güney H. Y., Şimşiroğlu B. Ş., Hizal J., Yılmazoğlu M.
Diamond and Related Materials, vol.140, 2023 (SCI-Expanded)

- II. **Ionic liquid incorporated SPEEK/Chitosan solid polymer electrolytes: ionic conductivity and dielectric study**
Yılmazoğlu M., Bayıroğlu F., Erdemi H., Abacı U., Güney H. Y.
Journal of Solid State Electrochemistry, vol.27, no.5, pp.1143-1154, 2023 (SCI-Expanded)
- III. **Plasticizer effect on dielectric properties of poly(methyl methacrylate)/titanium dioxide composites**
Abacı U., Güney H. Y., Yılmazoğlu M.
POLYMERS & POLYMER COMPOSITES, vol.29, no.9_SUPPL, 2021 (SCI-Expanded)
- IV. **Dielectric properties of sulfonated poly(ether ether ketone) (SPEEK) electrolytes with 1-ethyl-3-methylimidazolium tetrafluoroborate salt: Ionic liquid-based conduction pathways**
Yılmazoğlu M., Bayıroğlu F., Erdemi H., Abacı U., Güney H. Y.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.611, 2021 (SCI-Expanded)
- V. **BODIPY substituted zinc(II) phthalocyanine and its bulk heterojunction application in solar cells**
Omeroglu I., Senocak A., Yetkin H., Güney H. Y., Demirbas E., Durmus M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, pp.1132-1143, 2019 (SCI-Expanded)
- VI. **Optimization of annealing temperature and the annealing effect on life time and stability of P3HT:PCBM-based organic solar cells**
Güney H. Y., Avdan Z., Yetkin H.
MATERIALS RESEARCH EXPRESS, vol.6, 2019 (SCI-Expanded)
- VII. **Dielectric properties of lithium-perchlorate-filled acrylonitrile-hexyl methacrylate copolymer films**
Cicek M., Vargun E., Abacı U., Güney H. Y.
POLYMER COMPOSITES, vol.38, no.9, pp.1792-1799, 2017 (SCI-Expanded)
- VIII. **Mechanical, electrical, and melt flow properties of polyurethane elastomer/surface-modified carbon nanotube composites**
Tayfun U., Kanbur Y., Abacı U., Güney H. Y., Bayramli E.
JOURNAL OF COMPOSITE MATERIALS, vol.51, no.14, pp.1987-1996, 2017 (SCI-Expanded)
- IX. **Synthesis of new 2,5-di(thiophen-2-yl)furan-3-carbonitrile derivatives and investigation of the electrochromic properties of homopolymers and co-polymers with EDOT**
Abacı U., Ustalar A., Yılmaz M., Güney H. Y.
RSC ADVANCES, vol.6, no.33, pp.27836-27845, 2016 (SCI-Expanded)
- X. **Improvement of photovoltaic performance and stability of AnE-PV:PCBM based organic solar cells using solution processed inverted geometry**
Yuksel S. A., Ongul F., Bozar S., Varal N. M., Kus M., ÇAKMAK G., GÜNEY H. Y., Egbe D. A. M., GÜNEŞ S.
VACUUM, vol.122, pp.161-167, 2015 (SCI-Expanded)
- XI. **Mechanical, flow and electrical properties of thermoplastic polyurethane/fullerene composites: Effect of surface modification of fullerene**
Tayfun U., Kanbur Y., Abacı U., Güney H. Y., Bayramli E.
COMPOSITES PART B-ENGINEERING, vol.80, pp.101-107, 2015 (SCI-Expanded)
- XII. **Vacuum-free processed bulk heterojunction solar cells with E-GaIn cathode as an alternative to Al electrode**
Ongul F., Yuksel S. A., Bozar S., ÇAKMAK G., GÜNEY H. Y., Egbe D. A. M., GÜNEŞ S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, no.17, 2015 (SCI-Expanded)
- XIII. **The effect of functionalized single walled carbon nanotube with octadecylamine on efficiency of poly-(3-hexylthiophene): [(6,6)] phenyl C-61 butyric acid methyl ester organic solar cells**
ÇAKMAK G., GÜNEY H. Y., Yuksel S. A., GÜNEŞ S.
PHYSICA B-CONDENSED MATTER, vol.461, pp.85-91, 2015 (SCI-Expanded)
- XIV. **Effects of B2O3 Addition on Structural and Dielectric Properties of PVDF**
Kadiroğlu Ü., Abacı U., Güney H. Y.
POLYMER ENGINEERING AND SCIENCE, vol.54, no.11, pp.2536-2543, 2014 (SCI-Expanded)

- XV. **Effect of LiClO₄ Salt on Dielectric Properties of Acrylonitrile-Methyl Methacrylate and Acrylonitrile-Isobutyl Methacrylate Copolymers**
Vargun E., Abacı U., Sankir M., Usanmaz A., Güney H. Y.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.51, no.2, pp.156-164, 2014 (SCI-Expanded)
- XVI. **Preparation, Solubility, and Electrical Properties of Multiwalled Carbon Nanotubes/Poly(1-vinyl-1,2,4-triazole) Composites via in situ Functionalization**
TEKİN N., Kara A., Beyaz S. K., Simsek E., ÇAKMAK G., GÜNEY H. Y., Lamari F. D.
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.53, no.8, pp.840-850, 2014 (SCI-Expanded)
- XVII. **Hybrid solar cells using CdS thin films deposited via spray pyrolysis technique**
Yuksel S. A., GÜNEŞ S., GÜNEY H. Y.
THIN SOLID FILMS, vol.540, pp.242-246, 2013 (SCI-Expanded)
- XVIII. **Morphological and electrochemical properties of PPy, PANi bilayer films and enhanced stability of their electrochromic devices (PPy/PANi-PEDOT, PANi/PPy-PEDOT)**
Abacı U., Güney H. Y., Kadiroglu Ü.
ELECTROCHIMICA ACTA, vol.96, pp.214-224, 2013 (SCI-Expanded)
- XIX. **The synthesis of covalent bonded single-walled carbon nanotube/polyvinylimidazole composites by in situ polymerization and their physical characterization**
TEKİN N., Beyaz S. K., Kara A., Simsek E., Lamari F. D., ÇAKMAK G., GÜNEY H. Y.
POLYMER COMPOSITES, vol.33, no.8, pp.1255-1262, 2012 (SCI-Expanded)
- XX. **Preparation and characterization of acrylonitrile-ethyl methacrylate copolymers and the effect of LiClO₄ salt on electrical properties of copolymer films**
Vargun E., Sankir M., Usanmaz A., Kanbur Y., Abacı U., Güney H. Y.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.124, no.1, pp.840-846, 2012 (SCI-Expanded)
- XXI. **Synthesis, characterization and dielectric behavior of (ES)-form polyaniline/cerium(III)-nitrate-hexahydrate composites**
Özkazanç E., Zor S., Özkazanç H., Güney H. Y., Abacı U.
MATERIALS CHEMISTRY AND PHYSICS, vol.133, no.1, pp.356-362, 2012 (SCI-Expanded)
- XXII. **Synthesis Characterization and Dielectric Behavior of ES Form Polyaniline Cerium III Nitrate Hexahydrate Composites**
ÖZKAZANÇ E., ZOR S., ÖZKAZANÇ H., GÜNEY H. Y., ABACI U.
Materials Chemistry And Physics, vol.133, pp.356-362, 2012 (SCI-Expanded)
- XXIII. **In situ polymerization synthesis and characterization of single wall nanotubes/poly(vinyl)triazole nanocomposites**
BEYAZ S. K., TEKİN N., KARA A., SİMSEK E., ÇAKMAK G., GÜNEY H. Y., LAMARI F. D.
JOURNAL OF COMPOSITE MATERIALS, vol.45, no.14, pp.1523-1531, 2011 (SCI-Expanded)
- XXIV. **Water soluble poly(1-vinyl-1,2,4-triazole) as novel dielectric layer for organic field effect transistors**
ABBAS M., ÇAKMAK G., TEKİN N., Kara A., GÜNEY H. Y., Arici E., SARIÇİFTÇİ N. S.
ORGANIC ELECTRONICS, vol.12, no.3, pp.497-503, 2011 (SCI-Expanded)
- XXV. **Morphological and Dielectric Properties of Barium Chloride-Filled Poly(vinylidene fluoride) Films**
Özkazanç E., Güney H. Y., Güner S., Abacı U.
POLYMER COMPOSITES, vol.31, no.10, pp.1782-1789, 2010 (SCI-Expanded)
- XXVI. **The Variation of the Dielectric Constant and Loss Index with Temperature and Draw Ratio in alpha-PVDF**
ÖZKAZANÇ E., GÜNEY H. Y.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.112, no.4, pp.2482-2485, 2009 (SCI-Expanded)
- XXVII. **The effect of uniaxial orientation on the dielectric relaxation behavior of alpha-PVDF**
ÖZKAZANÇ E., GÜNEY H. Y., OSKAY T., TARCAN E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.109, no.6, pp.3878-3886, 2008 (SCI-Expanded)
- XXVIII. **Evaluation of the (Allyl alcohol 1,2-butoxylate-blocked-toxylate)-b-PMMA copolymers composition by**

the dielectric measurements

Abacı U., Güney H. Y., Yıldız U.

JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.44, pp.1121-1126, 2007 (SCI-Expanded)

- XXIX. **Elastic properties and mechanical relaxation behaviors of PVDF (poly (vinylidene fluoride)) at temperatures between -20 and 100 degrees C and at 2 MHz ultrasonic frequency**

Güney H. Y.

JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.43, no.20, pp.2862-2873, 2005 (SCI-Expanded)

- XXX. **The mechanical anisotropy of stratified polyvinyl chloride**

Sinan Özkan H., Oskay T., Yüksel Güney H. Y., Dirim H.

Journal of Polymer Science Part B: Polymer Physics, vol.32, no.4, pp.631-640, 1994 (SCI-Expanded)

- XXXI. **MECHANICAL ANISOTROPY IN BIAXIALY ORIENTED POLYVINYL-CHLORIDE**

GÜNEY H. Y., OSKAY T., ÖZKAN H. S.

JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.29, no.8, pp.897-906, 1991 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Farklı Işık Toplayıcı Gruplar İçeren Asimetrik Ftalosiyanın Sentezi ve Karakterizasyonu**
KÖKSOY B., Yetkin H., Senocak A., GÜNEY H. Y., Durmus M., Demirbas E.
31.Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019
- II. **The Annealing Effect On The Battery Life of P3HT PCBM Based Organic Solar Cells**
AVDAN Z., GÜNEY H. Y.
Turkish Physical Society, Muğla, Turkey, 6 - 09 September 2016
- III. **Polyaniline polypyrrole bilayer electrochromic films and enhanced stability their electrochromic devices PANi PPy PEDOT PPy PANi PEDOT**
ABACI U., GÜNEY H. Y., KADİROĞLU Ü.
Advanced Materials World Congress, İzmir, Turkey, 16 - 19 September 2013
- IV. **Synthesis of 4 Phenyl 2 5 Di Thiophene 2 Yı 4 5 Dihydrifuran 3 Carbonitrile and Investigation of Its Electrochromic Properties**
ABACI U., YILMAZ M., GÜNEY H. Y.
44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013
- V. **Farklı Metakrilat Grupları İçeren Poliakrilonitril Kopolimerlerinin Elektriksel Özellikleri**
VARGÜN E., SANKIR M., USANMAZ A., ABACI U., GÜNEY H. Y.
26. Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012
- VI. **Poliakrilonitril metakrilatBazlı Kopolimerlerin Elektriksel Özelliklerinin İncelenmesi**
VARGÜN E., SANKIR M., USANMAZ A., KANBUR Y., ABACI U., GÜNEY H. Y.
4. Ulusal Polimer Bilim ve Teknoloji Kongresi, Çanakkale, Turkey, 5 - 08 September 2012
- VII. **Low Voltage Operation of Organic Field Effect Transistors Based on Poly 1 vinyl 1 2 4 triazole**
GÜLBEDEN Ç., MAMATİMİN A., TEKİN N., KARA A., NİYAZİ SERDAR S., GÜNEY H. Y.
Nanoscience and Nanotechnology Conference, 15 - 18 June 2010
- VIII. **BaCl₂ katkılamanın PVDF'nin dielektrik özellikleri üzerine etkisi**
ÖZKAZANÇ E., GÜNEY H. Y., GÜNER S., ABACI U.
3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Kocaeli, Turkey, 12 - 14 May 2010
- IX. **Suda Çözünür Poli vinil triazol ün Dielektrik Olarak Organik Alan Etkili Transistörlerde Kullanımı**
ÇAKMAK G., MAMATİMİN A., TEKİN N., KARA A., NİYAZİ SERDAR S., GÜNEY H. Y.
3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Turkey, 12 - 14 May 2010
- X. **Non-reproducible electrical properties of semiconductor PVDF-HFP (hexafluoropropylenevinylidenefluoride) copolymer**
LİKOĞLU G., GÜNEY H. Y., ABACI U.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.783

- XI. **Depended on Temperature of the Electrical Properties of Carbon Filled PVDF HFP hexafluoropropylenevinylidene fluoride Copolymer**
LİKOĞLU G., GÜNEY H. Y., ABACI U.
6th International Conference of The Balkan Physic Union, İstanbul, Turkey, 22 - 26 August 2006
- XII. **Yarıiletken Hegzafloropropilenvinilidin florid PVDF HFP kopolimerin elektriksel özelliklerinin sıcaklık ve elektrik alan şiddetine bağlılığı**
LİKOĞLU G., GÜNEY H. Y., TARCAN E., ABACI U.
1. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Ankara, Turkey, 21 - 23 June 2006
- XIII. **Farklı oranlarda karbon içeren Poliviniliden florit ko hekzafloropropilen PVDF HFP kopolimerin elektriksel özelliklerinin incelenmesi**
ALMASULU H. N., GÜNEY H. Y., TARCAN E., LİKOĞLU G., ABACI U.
1. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Ankara, Turkey, 21 - 23 June 2006
- XIV. **Polistiren katkılı Poli Vinil Klorür ün dielektrik özelliklerinin katkı oranına ve sıcaklığa bağlı değişimi**
ABACI U., GÜNEY H. Y., TARCAN E., GÜLBEDEN L.
1. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Ankara, Turkey, 21 - 23 June 2006

Supported Projects

GÜNEY H. Y., Project Supported by Higher Education Institutions, İNVERT YAPILI HİBRİT GÜNEY PİLLERİNİN (ITO/TiO₂/BCP/P3HT:PCB/AG) ÜRETİMİ VE KARAKTERİZASYONU, 2018 - 2019

GÜNEY H. Y., Project Supported by Higher Education Institutions, ORGANİK GÜNEŞ PİLLERİNİN KUANTUM VERİM ÖLÇÜMÜNÜN GLOVE-BOX İÇİNDE GERÇEKLEŞTİRİLMESİ, 2015 - 2016

GÜNEY H. Y., Project Supported by Higher Education Institutions, Yeni Hybrid Güneş Pillerinde Kullanılan İnorganik Yarı İletken Filmlerin Üretim Yöntem ve Şartlarının Pillerin Verimine Etkisinin İncelenmesi, 2011 - 2013

GÜNEY H. Y., Project Supported by Higher Education Institutions, Yüksek Verimli Organik Güneş Pillerinin Üretiminde Fonksiyonelleştirilmiş Karbon Nanotüplerin Etkisi, 2010 - 2013

GÜNEY H. Y., Project Supported by Higher Education Institutions, Polipirol, Polianilin, Polietilendiyoksitiyofen İçeren Elektrokromik Cihaz (ECD) Üretimi ve Özelliklerinin Araştırılması (Ufuk ABACI Tez Projesi), 2010 - 2012

GÜNEY H. Y., Project Supported by Higher Education Institutions, Karbon Nanotüplerin Organik ve Hibrid Güneş Pillerine Uygulanması (Gülbeden ÇAKMAK Tez Projesi), 2010 - 2012

Metrics

Publication: 45
Citation (WoS): 389
Citation (Scopus): 404
H-Index (WoS): 10
H-Index (Scopus): 10