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International Researcher IDs

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Publons / Web Of Science ResearcherID: LBI-1593-2024

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Education Information

Doctorate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Metalurji Ve Malzeme Mühendisliği / Malzeme, Turkey 2008 - 2013

Postgraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Metalurji Ve Malzeme Mühendisliği / Malzeme, Turkey 2005 - 2008

Undergraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Metalurji Ve Malzeme Mühendisliği, Turkey 2002 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Elyaf Takviyeli, Termoplastik Matrisli Kompozit Malzeme Üretimi ve Karakterizasyonu, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Metalurji Ve Malzeme Mühendisliği / Malzeme, 2013

Postgraduate, Titan Beyazı Emayelerin Kimyasal Dayanımının Arttırılması, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Metalurji Ve Malzeme Mühendisliği / Malzeme, 2008

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Biomaterials, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Green synthesis of silver nanoparticles from Thymus vulgaris and Sambucus nigra extracts in poly (vinyl alcohol) nanofiber matrix: In vitro evaluation**
Tavukcuoglu O., Evcimen Duygulu N., ALTINBAY A., Ciftci F.
Industrial Crops and Products, vol.222, 2024 (SCI-Expanded)
- II. **Effect of concentration on PVA solutions and its usage in recycling carbon fiber/polyamide 12 prepreps**
ALTINBAY A.
Materialpruefung/Materials Testing, vol.66, no.10, pp.1693-1699, 2024 (SCI-Expanded)
- III. **Antibacterial, Mechanical, and Thermal Properties of Ag, ZnO, TiO₂ Reinforced PVA Nanocomposite Fibers**
Duygulu N., Altinbay A., Ciftci F.
ChemistrySelect, vol.9, no.30, 2024 (SCI-Expanded)
- IV. **In-situ self-reinforcement of amorphous polylactide (PLA) through induced crystallites network and its highly ductile and toughened PLA/poly(butylene adipate-co-terephthalate) (PBAT) blends**
Eraslan K., Altinbay A., Nofar M.
International Journal of Biological Macromolecules, vol.272, 2024 (SCI-Expanded)
- V. **Poly(glycidyl methacrylate) modified cellulose nanocrystals and their PBAT-based nanocomposites**
Arslan Ö. F., Güntürkün D., Göksu Y. A., Altinbay A., Özer H. Ö., Nofar M.
International Journal of Biological Macromolecules, vol.253, 2023 (SCI-Expanded)
- VI. **Effects of copper fillers on mechanical and electrical properties of selective laser sintered PA 12-Cu composites**
Ozbay B., BEKEM A., Serhatlı İ. E., ÖZTÜRK S., Bulduk M. E.
MATERIALS TECHNOLOGY, vol.37, no.10, pp.1541-1553, 2022 (SCI-Expanded)
- VII. **Effect of dendritic copper powder addition to polyamide 12 in selective laser sintering**
Bekem A., Ozbay B., Bulduk M. E.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.1, pp.421-431, 2021 (SCI-Expanded)
- VIII. **Effect of fillers on vinylester matrix composites**
Topalomer N., Bekem A., Keleşoğlu E., Ünal A.
MATERIALS TESTING, vol.61, pp.681-684, 2019 (SCI-Expanded)
- IX. **Mechanical properties of PE/E-glass commingled yarn wound pipes and pipe elbows**
BEKEM A., ÜNAL A.
MATERIALS TESTING, vol.60, no.4, pp.373-377, 2018 (SCI-Expanded)
- X. **The Effects of Local and Systemic Administration of Proline on Wound Healing in Rats**
Aydın H., Tatar C., Savas O. A., Karsıdag T., Ozer B., Dursun N., BEKEM A., ÜNAL A., Tuzun I. S.
JOURNAL OF INVESTIGATIVE SURGERY, vol.0, pp.1-7, 2018 (SCI-Expanded)
- XI. **The effects of platelet-rich plasma on wound healing in rats**
Tatar C., Aydın H., Karşıdağ T., Arıkan S., Kabukcuoğlu F., Doğan O., BEKEM A., ÜNAL A., Tüzün I. S.
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE, vol.10, no.5, pp.7698-7706, 2017 (SCI-Expanded)
- XII. **Tensile properties of continuous E-glass and basalt fiber reinforced polypropylene composites**
Bekem A., Doğu M., Ünal A.
MATERIALS TESTING, vol.59, pp.11-15, 2017 (SCI-Expanded)
- XIII. **Investigation of joints between polypropylene and polybutylene terephthalate**
Bekem A., Ünal A.
MATERIALS TESTING, vol.57, pp.458-461, 2015 (SCI-Expanded)

- XIV. **Biomechanical strength of glass ionomer cement in incudostapedial rebridging**
Server E. A., Alkan Z., Yiğit Ö., Acioğlu E., BEKEM A., ÜNAL A., Akkin S. M.
JOURNAL OF LARYNGOLOGY AND OTOTOLOGY, vol.129, no.2, pp.148-154, 2015 (SCI-Expanded)
- XV. **Importance of nasal septal cartilage perichondrium for septum strength mechanics: a cadaveric study**
Tekke N. S., Alkan Z., Yiğit O., BEKEM A., ÜNAL A., Şahin F., Balıkcı H. H., Acioğlu E., Durna Y. M.
RHINOLOGY, vol.52, no.2, pp.167-171, 2014 (SCI-Expanded)
- XVI. **Aramid-HDPE Composites: Influence of Interface Adhesion Measured by T-peel Test on Tensile Properties**
BEKEM A., DOĞU M., Gemici Z., ÜNAL A., GÜLER M. H.
MATERIALS TESTING, vol.56, no.5, pp.369-374, 2014 (SCI-Expanded)
- XVII. **Determining the Most Suitable Costal Cartilage Level for Rhinoplasty: An Experimental Study**
Alkan Z., Acioğlu E., Yiğit O., BEKEM A., Azizli E., ÜNAL A., Şahin F.
OTOLARYNGOLOGY-HEAD AND NECK SURGERY, vol.146, no.3, pp.377-381, 2012 (SCI-Expanded)
- XVIII. **Tensile Characteristics of Costal and Septal Cartilages Used as Graft Materials**
Alkan Z., Yiğit O., Acioğlu E., BEKEM A., Azizli E., Kocak I., ÜNAL A., BUYUK Y.
ARCHIVES OF FACIAL PLASTIC SURGERY, vol.13, no.5, pp.322-326, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of Design Criteria for Composite Drive Shaft in Automobiles**
ALTIN B., Altınbay Bekem A., Ünal A.
Politeknik Dergisi, vol.27, no.2, pp.721-729, 2024 (ESCI)
- II. **Manufacturing of Hybrid Yarn Thermoplastic Composites by the Method of Filament Winding**
Ozbay B., BEKEM A., ÜNAL A.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.33, no.1, pp.214-227, 2020 (ESCI)
- III. **İnkudostapedial Bağlantı Süreksizliklerinin Onarımında Kullanılan Cam İyonomer Çimentosunun Biyomedikal Özellikleri**
ÜNAL A., BEKEM A., Araz Server E., ALKAN Z., YİĞİT Ö.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.18, no.3, pp.152-156, 2014 (Peer-Reviewed Journal)
- IV. **Isıl İşlemin Emaye Özellikleri Üzerine Etkisinin İncelenmesi**
DUYGULU N., BEKEM A.
Türkiye Seramik Federasyonu Dergisi, vol.20, pp.140-149, 2013 (Non Peer-Reviewed Journal)
- V. **İZOFTALİK POLYESTER MATRİSLİ SÜREKLİ E-CAMI VE BAZALT FİBER TAKVİYELİ KOMPOZİTLERİN MEKANİK ÖZELLİKLERİ ÜZERİNE DENEYSEL BİR ÇALIŞMA**
GÜMÜLCİNE T., BEKEM A., DOĞU M., GEMİCİ Z., ÜNAL A.
Sigma: Journal of Engineering Natural Sciences / Mühendislik ve Fen Bilimleri Dergisi, vol.5, pp.104-115, 2013 (Peer-Reviewed Journal)
- VI. **SÜREKLİ E-CAM FİBER TAKVİYELİ POLİPROPİLEN KOMPOZİTLERİN ÜRETİMİ VE KARAKTERİZASYONU**
BAYDAR D. G., BEKEM A., DOĞU M., GEMİCİ Z., ÜNAL A.
Sigma: Journal of Engineering Natural Sciences / Mühendislik ve Fen Bilimleri Dergisi, vol.30, pp.120-132, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Mechanical Properties of Flax Fabric/PLA Biodegradable Composites**
Altınbay A.

- 9th Polymer Science and Technology Congress (PolymerTR), Ankara, Turkey, 16 - 18 September 2024, pp.162
- II. **In-Situ Self-Reinforcement of Amorphous PLA and Its Incorporation into PLA/PBAT Blends**
Nofar M., Eraslan K., Altınbay A.
9th Polymer Science and Technology Congress (PolymerTR), Ankara, Turkey, 16 - 18 September 2024, pp.17
- III. **Examination of Mechanical Properties and Cost Impact of Thermoset Composites Produced with Different Manufacturing Methods in the Production of Unmanned Aerial Vehicle Wing Skins**
Sayın F. E., Altınbay A., Ünal A.
5th International 5 Ocak Congress on Applied Sciences , Adana, Turkey, 5 - 06 January 2024, pp.56-57
- IV. **Dependency of morphological and mechanical performance of PLA/PBAT blends and their reactively compatibilized counterparts on melt viscoelastic properties of the blending components**
Altınbay A., Özsaltık C., Akdevelioğlu Y., Özdemir B., Nofar M.
International Congress of Rheology (ICR2023), Athens, Greece, 29 July - 04 August 2023, pp.22
- V. **Surface Modification of Cellulose Nanocrystal (CNC) and its Dispersion in PLA matrix**
Arslan O. N., Güntürkün D., Özdemir B., Altınbay A., Alkan Göksu Y., Nofar M.
EPF European Polymer Congress (EPF 2022), Praha, Czech Republic, 26 June - 01 July 2022, pp.259
- VI. **Effect of Fly Ash Filler on Mechanical Performance of E-glass/Polyester Composites**
Bekem A., Birol B., Duygulu N.
19th International Metallurgy and Materials Congress (IMMC2018), İstanbul, Turkey, 25 - 27 October 2018, pp.700-702
- VII. **EFFECT OF ADDITION FILLER TO PA 12 COATING**
Bekem A., Duygulu N., Birol B.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS 2018), Kyiv, Ukraine, 2 - 06 May 2018, pp.192
- VIII. **Composite Pipe Production with Polypropylene/Glass Fiber Commingled Yarn**
ÜNAL A., BEKEM A.
CONFERENCE ON MATERIALS SCIENCE AND NANOTECHNOLOGY FOR NEXT GENERATION (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 June 2017, pp.112
- IX. **A Lifetime Determination Method For Prepreg-Wound PE Composite Pipes**
Ünal A., Bekem A., Doğu M., Gemici Z., Baydar D. G., Güler M. H.
10. Uluslararası Kırılma Konferansı, Kayseri, Turkey, 24 April 2014, pp.199-209
- X. **Reprocessing of fibre reinforced polyethylene composites, effects on mechanical properties**
ÜNAL A., Bekem A., Ünal A. R.
Advanced Material World Congress (AMWC2013), 01 September 2013
- XI. **Investigation of Mechanical Properties of Aramid Fiber Reinforced HDPE Composite**
BEKEM A., DOĞU M., GEMİCİ Z., ÜNAL A.
9TH INTERNATIONAL CONFERENCE ON COMPOSITE SCIENCE AND TECHNOLOGY: 2020 - SCIENTIFIC AND INDUSTRIAL CHALLENGES, Naples, Italy, 24 - 26 April 2013, pp.712-722
- XII. **Determination of the Effects of Recycling on Polyolefin Matrix Composites**
ÜNAL A., Bekem A., Ünal A. R., Güler M. H.
9th International Conference on Composite Science (ICCST9), 01 April 2013
- XIII. **A NOVEL LIFETIME PREDICTION METHOD FOR REINFORCED THERMOPLASTIC PIPES UNDER INTERNAL PRESSURE**
ÜNAL A., DOĞU M., GEMİCİ Z., BEKEM A., BAYDAR D. G.
16th International Conference on Composite Structures - ICCS 16, Porto, Portugal, 28 - 30 June 2011
- XIV. **INVESTIGATION OF MECHANICAL PROPERTIES OF BASALT FIBER REINFORCED THERMOPLASTIC COMPOSITES**
BEKEM A., DOĞU M., GEMİCİ Z., BAYDAR D. G., ÜNAL A.
16th International Conference on Composite Structures - ICCS16, Porto, Portugal, 28 - 30 June 2011
- XV. **Oblik Split ve Klasik Yöntemlerle Hazırlanmış Kostal Kartilaj Greftlerinin Biyomekanik Özelliklerinin Karşılaştırılması**
Şener B. M., Bekem A., Şahin F., ÜNAL A., Yiğit Ö.

Supported Projects

ALTINBAY A., Project Supported by Higher Education Institutions, Melez iplikli termoplastik kompozit üretimi ve boru bağlantı parçaları modellenmesi, 2014 - 2017

ÜNAL A., BEKEM A., Industrial Thesis Project, Melez iplikli termoplastik kompozit boru bağlantı elemanlarının elyaf sarma yöntemi ile üretimi ve modelleme teknikleri kullanılarak hatasız ürün geliştirilmesi, 2013 - 2015

Metrics

Publication: 39

Citation (WoS): 21

Citation (Scopus): 70

H-Index (WoS): 3

H-Index (Scopus): 5

Non Academic Experience

Yıldız Teknik Üniversitesi