

Res. Asst. Okan BAKBAK

Personal Information

Office Phone: [+90 383 291 0](tel:+903832910) Extension: 2910

Web: <https://avesis.yildiz.edu.tr/obakbak>

Address: obakbak@yildiz.edu.tr

International Researcher IDs

ScholarID: CtS7YAQAAAAJ

ORCID: 0000-0003-2074-1300

Publons / Web Of Science ResearcherID: AAZ-4879-2020

ScopusID: 57222322496

Yoksis Researcher ID: 265211

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği, Turkey
2018 - Continues

Postgraduate, Sakarya University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2015 - 2018

Undergraduate, Sakarya University, Faculty Of Engineering, Makine Mühendisliği, Turkey 2011 - 2015

Dissertations

Postgraduate, Köşe Kaynak Konstrüksiyonlarının Statik Dayanımının İncelenmesi, Sakarya Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2018

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Functionalized graphene–epoxy nanocomposites: experimental investigation of viscoelastic and viscoplastic behaviors**
Colak Ö. Ü., Birkan B., BAKBAK O., ACAR A., Uzunsoy D.
Mechanics of Time-Dependent Materials, vol.27, no.1, pp.185-205, 2023 (SCI-Expanded)
- II. **Modeling wide range of viscoelastic–viscoplastic behavior of Araldite LY 564 epoxy using cooperative viscoplasticity theory based on overstress model**
Bakbak O., Çolak Çakır Ö. Ü.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.1, pp.1-13, 2022 (SCI-Expanded)
- III. **Simplified cooperative viscoplasticity theory based on overstress model for nanocomposites**
Bakbak O., Çolak Çakır Ö. Ü.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.28, pp.1-18, 2022 (SCI-Expanded)
- IV. **Mechanical characterization of Araldite LY 564 epoxy_ creep, relaxation, quasi-static compression**

and high strain rate behaviors

BAKBAK O., BİRKAN B. E., ACAR A., Colak Ö. Ü.

Polymer Bulletin, vol.79, no.4, pp.2219-2235, 2022 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Viscoelastic and Viscoplastic Behavior of Graphene - Epoxy Nanocomposites: Experiments and Constitutive Modeling**
Çolak Çakır Ö. Ü., Bakbak O.
COST ACTION CA21121 - European Network for the Mechanics of Matter at the Nano-Scale (MecaNano), Madrid, Spain, 26 - 27 April 2023, pp.43
- II. **Manufacturing, Mechanical Characterization and Modeling of Functionalized Graphene Epoxy Nanocomposites**
Çolak Çakır Ö. Ü., Bakbak O., Birkan B. E., Acar A.
22nd Edition of International Conference on Materials Science & Engineering, Amsterdam, Netherlands, 2 - 03 December 2021, pp.2
- III. **Cooperative- Viscoplasticity Theory based on Overstress Model for Modeling Graphene-Epoxy Nanocomposites**
Çolak Çakır Ö. Ü., Bakbak O.
International Conference on Mining, Material, and Metallurgical Engineering, Florence, Italy, 19 January - 20 February 2022, pp.14-17
- IV. **MECHANICAL BEHAVIOR OF FUNCTIONALIZED GRAPHENE-EPOXY NANOCOMPOSITES AROUND GLASS TRANSITION TEMPERATURE**
Bakbak O., Birkan B. E., Acar A., Çolak Çakır Ö. Ü.
6th International Conference on Advances in Mechanical Engineering,, İstanbul, Turkey, 20 - 22 October 2021, pp.112-117
- V. **THREE ROLL MILLING FOR MANUFACTURING OF GRAPHENE- EPOXY NANOCOMPOSITES**
Birkan B. E., Bakbak O., Acar A., Çolak Çakır Ö. Ü.
6th International Conference on Advances in Mechanical Engineering,, İstanbul, Turkey, 20 - 22 October 2021, pp.925-929
- VI. **High Strain Rate and Quasi Static Behavior of Araldite LY564 Epoxy**
Bakbak O., Birkan B. E., Acar A., Çolak Çakır Ö. Ü., Taşdemirci A.
"Virtual Congress on Materials Science & Engineering". Materials Info 2020, Delaware, United States Of America, 9 - 10 November 2020, pp.20
- VII. **Creep and Relaxation Behavior of Araldite LY564 Epoxy**
Birkan B. E., Bakbak O., Çolak Çakır Ö. Ü., Acar A.
"Virtual Congress on Materials Science & Engineering". Materials Info 2020, 9 - 10 November 2020, pp.19
- VIII. **DAİRESEL ÇENTİKLİ BİR MİLİN ORANTISAL DİNAMİK YÜKLEME ALTINDAKİ DAVRANIŞINDA ÖTELEME GERİLME ETKİSİNİN TESPİTİ**
BAKBAK O., AKŞEN T. A., ESENER E., FIRAT M.
9th International Automotive Technologies Congress, Bursa, Turkey, 07 May 2018, pp.304-310
- IX. **Investigation of Notch Root Strain Behaviors Under Combined Loadings**
Akşen T. A., Bakbak O., Esener E., Ercan S., Fırat M.
4th International Conference on Engineering and Natural Science, Kyiv, Ukraine, 2 - 06 May 2018, pp.484-492

Supported Projects

GÜMÜŞ B., BİRKAN B. E., TAŞDEMİR M., BAKBAK O., Project Supported by Higher Education Institutions, Grafen ve Çinko Borat Takviyeli Geri Dönüşümlü Polipropilen Nano Kompozit Malzemenin Mekanik Termal ve Morfolojik Özelliklerinin

İncelenmesi, 2021 - Continues

ÇOLAK ÇAKIR Ö. Ü., TUBITAK Project, Yüksek şekil deęiřtirme hızlarında Nano kompozit malzeme karakterizasyonu ve modellenmesi, 2018 - Continues

Metrics

Publication: 13

Citation (WoS): 4

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 2