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Publons / Web Of Science ResearcherID: AAA-2994-2020

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Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Makine-Mekanik (Dr), Turkey 2014 - 2018

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Makine-Mekanik (YI) (Tezli), Turkey 2011 - 2014

Undergraduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2006 - 2011

Dissertations

Doctorate, Havacılık alanında kullanılan nanoyapı katkılı yapısal yapıştırıcıların mekanik özelliklerinin deneysel olarak incelenmesi, Ataturk University, Fen Bilimleri Enstitüsü, Makine-Mekanik (Dr), 2018

Postgraduate, Yapıştırıcıyla birleştirilmiş bağlantılarda malzeme genişliğinin ve kalınlığının bağlantının yük taşıma kapasitesine etkisi, Ataturk University, Fen Bilimleri Enstitüsü, Makine-Mekanik (YI) (Tezli), 2014

Research Areas

Mechanical Engineering, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2023 - Continues

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2018 - Continues

Research Assistant, Ataturk University, Fen Bilimleri Enstitüsü, Makine-Mekanik (YI) (Tezli), 2013 - 2018

Research Assistant, Kafkas University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2012 - 2013

Academic and Administrative Experience

Head of Department, Ondokuz Mayıs University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2018 - 2023

Supervised Theses

Gültekin K., Farklı çalışma koşullarına maruz fonksiyonelleştirilmiş bor nanopartikülleri katkı nanokompozitlerin yapısal, termal ve mekanik özelliklerinin incelenmesi, Postgraduate, Y.KORKMAZ(Student), 2022

Gültekin K., Bor nanopartikülleri katkı yapıştırma bağlantılarının mekanik özelliklerinin incelenmesi, Postgraduate, M.ENES(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synergetic effect of hybrid surface treatment on the mechanical properties of adhesively bonded AA2024-T3 joints**
Ozakin B., Gültekin K.
JOURNAL OF ADHESION, 2024 (SCI-Expanded)
- II. **Investigation of the Effect of Particle Size on Dispersion Stability and Viscosity in Kaolin Particles-Doped Bio-Based Palm Nanolubricants**
Ozakin B., Gültekin K., Uğuz G.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2024 (SCI-Expanded)
- III. **Enhancement of saltwater ageing behavior of nanocomposites and lap joints with boron nanoparticles**
Korkmaz Y., Cetin E., Gültekin K.
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.126, 2023 (SCI-Expanded)
- IV. **Improving the mechanical performance of adhesively bonded CFRP composite joints exposed to harsh mediums with the reinforcement of boron nanostructures**
Korkmaz Y., Gültekin K.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.37, no.13, pp.1959-1982, 2023 (SCI-Expanded)
- V. **The effect of boron nanoparticle reinforcement on the structural and mechanical performance of nanocomposites and bonded joints exposed to an acid environment**
Gültekin K., Korkmaz Y.
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.118, 2022 (SCI-Expanded)
- VI. **Effect of UV irradiation on epoxy adhesives and adhesively bonded joints reinforced with BN and B4C nanoparticles**
Korkmaz Y., Gültekin K.
POLYMER DEGRADATION AND STABILITY, vol.202, 2022 (SCI-Expanded)
- VII. **Improvement of structural, thermal and mechanical properties of epoxy composites and bonded joints exposed to water environment by incorporating boron nanoparticles**
KORKMAZ Y., Gültekin K.
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.116, 2022 (SCI-Expanded)
- VIII. **Effect of functionalized boron nanoparticles on the adhesively bonded single lap composite joints**
Gültekin K., Yazici M. E.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.1, pp.175-191, 2022 (SCI-Expanded)
- IX. **Mechanical properties of aluminum bonded joints reinforced with functionalized boron nitride and boron carbide nanoparticles**
Gültekin K., Yazici M. E.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.236, no.1, pp.37-49, 2022 (SCI-Expanded)
- X. **Structural, thermal, and mechanical properties of silanized boron carbide doped epoxy nanocomposites**
Gültekin K., Uğuz G., Topcu Y., ÖZEL A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.42, 2021 (SCI-Expanded)
- XI. **Improvements of the structural, thermal, and mechanical properties of structural adhesive with**

functionalized boron nitride nanoparticles

Gültekin K., Uğuz G., ÖZEL A.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.21, 2021 (SCI-Expanded)

- XII. **Investigation of mechanical and thermal properties of nanostructure-doped bulk nanocomposite adhesives**
Akpınar I. A., GÜRSES A., Akpınar S., Gültekin K., AKBULUT H., ÖZEL A.
Journal of Adhesion, vol.94, no.11, pp.847-866, 2018 (SCI-Expanded)
- XIII. **An experimental study on composite adhesives reinforced with different types of organo-clays**
Akpınar I. A., Gültekin K., Akpınar S., GÜRSES A., ÖZEL A.
Journal of Adhesion, vol.94, no.2, pp.124-142, 2018 (SCI-Expanded)
- XIV. **Research on strength of nanocomposite adhesively bonded composite joints**
Akpınar I. A., Gültekin K., Akpınar S., AKBULUT H., ÖZEL A.
Composites Part B: Engineering, vol.126, pp.143-152, 2017 (SCI-Expanded)
- XV. **Effects of unbalance on the adhesively bonded composites-aluminium joints**
Gültekin K., Akpınar S., ÖZEL A., Öner G. A.
Journal of Adhesion, vol.93, no.9, pp.674-687, 2017 (SCI-Expanded)
- XVI. **Experimental analysis on the single-lap joints bonded by a nanocomposite adhesives which obtained by adding nanostructures**
Akpınar I. A., Gültekin K., Akpınar S., AKBULUT H., ÖZEL A.
Composites Part B: Engineering, vol.110, pp.420-428, 2017 (SCI-Expanded)
- XVII. **The effects of graphene nanostructure reinforcement on the adhesive method and the graphene reinforcement ratio on the failure load in adhesively bonded joints**
Gültekin K., Akpınar S., GÜRSES A., Eroglu Z., ÇAM S., AKBULUT H., Keskin Z., ÖZEL A.
Composites Part B: Engineering, vol.98, pp.362-369, 2016 (SCI-Expanded)
- XVIII. **The effect of moment and flexural rigidity of adherend on the strength of adhesively bonded single lap joints**
Gültekin K., Akpınar S., ÖZEL A.
Journal of Adhesion, vol.91, no.8, pp.637-650, 2015 (SCI-Expanded)
- XIX. **The effect of the adherend width on the strength of adhesively bonded single-lap joint: Experimental and numerical analysis**
Gültekin K., Akpınar S., ÖZEL A.
Composites Part B: Engineering, vol.60, pp.736-745, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Material Selection for Metal Additive Manufacturing Using Multi-Criteria Decision Making Methods**
Özakın B., Gültekin K.
International Journal of Engineering and Innovative Research , vol.6, pp.151-161, 2024 (Peer-Reviewed Journal)
- II. **Experimental Analysis of Adhesive Joints Bonded with Polylactic Acid Plates Produced with Different Printing Angles and Infill Ratios**
GÜLTEKİN K., ÖZAKIN B., F. Y., Danışmaz E. D.
Karadeniz Fen Bilimleri Dergisi, vol.14, no.2, pp.789-801, 2024 (Peer-Reviewed Journal)
- III. **Bor Karbür (B₄C) Katkılı Epoksi Esaslı Nanokompozitlerin Çok Kriterli Karar Verme Yöntemleriyle Seçimi**
Özakın B., Gültekin K., Çelik İ.
Karaelmas Fen ve Mühendislik Dergisi, vol.13, no.1, pp.35-41, 2023 (Peer-Reviewed Journal)
- IV. **Comparison of the effect of modified and unmodified boron carbide (B₄C) nanoparticles on the mechanical properties of structural adhesives**
GÜLTEKİN K.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.1, pp.198-206, 2022 (Peer-Reviewed)

Journal)

- V. **Effect of different surface preparation and roughness treatments applied to AA2024-T3 aluminum alloys in bonded joints**
GÜLTEKİN K., Korkmaz Y.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.11, no.4, pp.1269-1281, 2021 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **Nano grafen katkılı motor yağının dağılım stabilitesine polioksietilen sorbitan monooleat (tween-80) yüzey aktif maddesinin etkisi**
ÖZKURT A., ÖZAKIN B., GÜLTEKİN K.
4th International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 22 - 23 October 2024, pp.367-371
- II. **Investigation of oxidative stability behavior of kaolin nanoparticles doped bio-based palm lubricants**
Özakın B., Gültekin K., Türköz Karakullukçu N.
International Conference on Engineering, Natural Sciences, and Technological Developments, Balıkesir, Turkey, 19 - 21 July 2024, pp.195-200
- III. **Hidroklorik asit ortamında bor karbür katkılı epoksilerin sıvı emilim davranışlarının belirlenmesi**
TIKNAZOĞLU E., GÜLTEKİN K., ÖZAKIN B.
3rd International Conference on Frontiers in Academic Research, Konya, Turkey, 15 - 17 June 2024, pp.226-232
- IV. **Kaolin partikülleri katkılı bitkisel esaslı palm yağlayıcıların dağılım stabilitesinin geliştirilmesi**
ÖZAKIN B., GÜLTEKİN K.
3rd International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 16 - 17 May 2024, pp.646-651
- V. **Bitkisel yağlayıcıların sürdürülebilirliği açısından kaolin mineralinin önemi**
ÖZAKIN B., GÜLTEKİN K.
4th International Conference on Innovative Academic Studies, Konya, Turkey, 12 - 13 March 2024, pp.616-621
- VI. **Termoplastik PLA ve termoset karbon fiber plakalarla birleştirilmiş hibrit yapıştırma bağlantılarının mekanik özelliklerinin belirlenmesi**
DANIŞMAZ E., GÜLTEKİN K., ÖZAKIN B.
4th International Conference on Innovative Academic Studies, Konya, Turkey, 12 - 13 March 2024, pp.270-277
- VII. **Kaolin nanopartikülleri katkılı bitkisel esaslı palm yağlayıcıların viskozite davranışlarının incelenmesi**
ÖZAKIN B., GÜLTEKİN K.
Ases II. International Kayseri Scientific Research Conference, Kayseri, Turkey, 26 - 28 January 2024, pp.65-74
- VIII. **An Experimental Study on the Mechanical Performance of Nanostructures-Reinforced Structural Adhesively Bonded AA2024-T3 Joints in Seawater Medium**
KORKMAZ Y., GÜLTEKİN K.
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 July 2022 - 23 July 2020, pp.1386
- IX. **Nanopartikül Katkısı ile Yapıştırma Bağlantılarının Korozyon Ortamlardaki Davranışının Geliştirilmesi**
KORKMAZ Y., GÜLTEKİN K.
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, pp.956-962
- X. **Functionalized CNTs Doped Nanocomposites: Structural, Thermal and Mechanical Properties**
KORKMAZ Y., GÜLTEKİN K.
International Conference on Engineering Technologies (ICENTE21), Konya, Turkey, 18 - 20 November 2021, pp.120
- XI. **Bor Nanopartiküllerinin Sülfürik Asit Ortamına Maruz Kalan Epoksi Polimerlerin Cam Geçiş Sıcaklığı Üzerine Etkisi**

KORKMAZ Y., GÜLTEKİN K.

6nd International Conference on Material Science and Technology in Cappadocia (IMSTEC21), Nevşehir, Turkey, 26 - 28 November 2021, pp.218-222

XII. Water Absorption of Modified Boron Nanoparticles Doped Epoxy Nanocomposites

KORKMAZ Y., GÜLTEKİN K.

6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 - 22 October 2021, pp.102-111

XIII. FT-IR Analysis of Nanocomposites Exposed to Different Environments

KORKMAZ Y., GÜLTEKİN K.

International Conference on Engineering Technologies (ICENTE21), Konya, Turkey, 18 - 20 November 2021, pp.117

XIV. Investigation of the Mechanical Properties of Boron Nanoparticle Doped Adhesive Joints Exposed to Salt Water Environments

KORKMAZ Y., GÜLTEKİN K.

6nd International Conference on Material Science and Technology in Cappadocia (IMSTEC21), Nevşehir, Turkey, 26 - 28 November 2021, pp.473

XV. Effect of Silan Modified Nano h-B4C Dispersion on Thermal Properties of Structural Epoxy Adhesives

KORKMAZ Y., GÜLTEKİN K., TOPCU Y.

6nd International Conference on Material Science and Technology in Cappadocia (IMSTEC21), Nevşehir, Turkey, 26 - 28 November 2021, pp.474

XVI. Preperation and Characaterization of Nano Boron Nitride Reinforced Epoxy Adhesives

UĞUZ G., GÜLTEKİN K., KORKMAZ Y.

9th International Conference on Engineering and Natural Sciences, Ankara, Turkey, 13 - 15 November 2020, pp.77-88

XVII. Experimental Analysis of Nano Boron Carbide Doped Single Lap Joints Subjected to Tensile Loading

GÜLTEKİN K., UĞUZ G., ÖZEL A.

9th International Conference on Engineering and Natural Sciences, Ankara, Turkey, 13 - 15 November 2020, pp.89-97

XVIII. Mechanical Analysis of Nano Boron Nitride Doped Adhesive Joints

GÜLTEKİN K., UĞUZ G., ÖZEL A.

International Conference on Engineering Technologies (ICENTE20), Konya, Turkey, 19 - 21 November 2020, pp.301-304

XIX. Investigation of Structural Properties of Boron Carbide Reinforced Epoxy Adhesives

UĞUZ G., GÜLTEKİN K.

5th International Conference on Engineering Technologies (ICENTE20 2020), Konya, Turkey, 19 - 21 November 2020

XX. Laser Application on Bonding Surface of Adhesively Bonded Joints

GÜLTEKİN K.

4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 April 2019, pp.151-155

XXI. Optimum Adhesive Layer Thickness of Nanoadhesively Bonded Joints

GÜLTEKİN K.

4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 April 2019, pp.146-150

XXII. Çeki Yüküne Maruz Yapıştırıcıyla Birleştirilmiş Tek Tesirli Kompozit Bağlantılarda Nanopartiküllerin Etkisi

GÜLTEKİN K., AVİNÇ AKPINAR İ., AKPINAR S., AKBULUT H., ÖZEL A.

1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.3483-3490

XXIII. Yapıştırıcıyla Birleştirilmiş Kompozit Bağlantılarda Grafen ve Karbon Nanotüp Takviyeli Kompozit

Yapıştırıcıların Bağlantı Mukavemeti Üzerine Etkisi

AKPINAR S., GÜLTEKİN K., AVİNÇ AKPINAR İ., ÖZEL A.

1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.3809-3815

XXIV. An Experimental Study on Double Lap Joints Bonded with Nanocomposite Adhesive Subjected to Bending Moment

AKPINAR S., GÜLTEKİN K., AVİNÇ AKPINAR İ., AKBULUT H., ÖZEL A.

1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.3514-3520

XXV. Effect of Nanoparticles on the Strength of Adhesively Bonded Single Lap Composites Joints Subjected to Tensile Loading

GÜLTEKİN K., AKPINAR S., ÖZEL A.

19th International Conference on Composite Structures (ICCS19), Porto, Portugal, 5 - 09 September 2016, pp.70-71

XXVI. The Mechanics of Mutual Interactions Between the Component in the Nanoparticle Reinforced Two Part Epoxy System

GÜRSES A., AKPINAR S., ÖZEL A., EROĞLU Z., GÜLTEKİN K., AKBULUT H., KESKİN Z.

12th International Nanoscience and Nanotechnology Conference (NANO-TR 12), Kocaeli, Turkey, 3 - 05 June 2016, pp.310

XXVII. Yapıştırıcıyla Birleştirilmiş Tek Tesirli Bindirme Hibrit Bağlantısında Kompozit Kalınlığının Etkisi

ÖNER G., AKPINAR S., GÜLTEKİN K., ÖZEL A.

Uluslararası Katılımlı III. Ege Kompozit Malzemeler Sempozyumu (KOMPEGE 2015), Aydın, Turkey, 5 - 07 November 2015, pp.641-649

XXVIII. The Investigation of Thermal and Curing Behaviours of Epoxy-Based Structural Adhesives

GÜRSES A., AKPINAR S., ÖZEL A., EROĞLU Z., GÜLTEKİN K., AKBULUT H., KESKİN Z., ÇAM S.

11th Nanoscience and Nanotechnology Conference (NANO-TR 11), Ankara, Turkey, 22 - 25 June 2015

XXIX. Effect of Graphene Nanocomposite Adhesives on the Strength of Adhesively Bonded Single-Lap Joint

ACAR V., GÜLTEKİN K., AKPINAR S., ÖNER G., AKBULUT H., ÖZEL A.

The 22nd Annual International Conference on Composites or Nano-Engineering (ICCE-22), SAINT JULIAN'S, Malta, 13 - 19 July 2014

XXX. A Study on The Strength of Nanoadhesively Bonded Joint Subjected to Bending Moment

GÜLTEKİN K., ÖZEL A., AKPINAR S., ÖNER G., JAHANPASAND H. G.

The 22nd Annual International Conference on Composites or Nano-Engineering (ICCE-22), SAINT JULIAN'S, Malta, 13 - 19 July 2014

XXXI. Effect of Carbon Nanotube Added Adhesive on The Strength of Adhesively Bonded Joint

ÖNER G., AKPINAR S., GÜLTEKİN K., ACAR V., ÖZEL A.

The 22nd Annual International Conference on Composites or Nano-Engineering (ICCE-22), SAINT JULIAN'S, Malta, 13 - 19 July 2014

XXXII. Yapıştırıcıyla Birleştirilmiş Tek Tesirli Kompozit Bağlantılarda İstifleme Açısının Hasar Yüküne Etkisi

AKPINAR S., GÜLTEKİN K.

II. Ulusal Ege Kompozit Malzemeler Sempozyumu (KOMPEGE 2013), Aydın, Turkey, 7 - 09 November 2013, pp.89-102

Supported Projects

Gültekin K., Özakin A. N., Özakin B., TUBITAK Project, Bitkisel Esaslı Hint Yağının Oleik Asit Modifikasyonlu Bor Nitrid Nanopartikülleri ve Çörekotu Yağı ile Oksidasyon Stabilitésinin Gelistirilmesi ve Haddeleme Performansının İncelenmesi, 2024 - 2025

Gültekin K., TUBITAK Project, Haddeleme Prosesinde Kullanılan Bitkisel Esaslı Palm Yağının Modifiye Edilmiş Nano Kaolin Katkısıyla Oksidatif, Hidrolitik Ve Tribolojik Özelliklerinin İyileştirilmesi , 2023 - 2025

Gültekin K., Project Supported by Higher Education Institutions, Bor Nanopartikülleri Katkılı Yapıştırma Bağlantılarının Mekanik Özelliklerinin İncelenmesi, 2021 - 2022

Gültekin K., TUBITAK Project, Farklı Çalışma Koşullarına Maruz Kalan Yapıştırıcı ve Yapıştırma Bağlantılarının Performanslarının Bor Nanopartikülleri Katkısıyla İyileştirilmesi, 2020 - 2022

TUBITAK Project, Havacılık Alanında Kullanılan Yapısal Yapıştırıcıların Termal Çevrim Performanslarının Karbon Nanoyapı Katkısıyla İyileştirilmesi, 2014 - 2017

Gültekin K., Project Supported by Higher Education Institutions, Yapıştırıcıyla Birleştirilmiş Bağlantılarda Nanopartikülün Etkisi, 2015 - 2016