

Res. Asst. MÜCAHİT KOCAMAN

Personal Information

Office Phone: [+90 462 377 4057](tel:+904623774057)

Email: m.kocaman@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr/m.kocaman>

International Researcher IDs

ScholarID: DjUzNE0AAAAJ

ORCID: 0000-0003-4761-5195

Publons / Web Of Science ResearcherID: AEL-8708-2022

ScopusID: 57795871100

Yoksis Researcher ID: 337986

Education

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2022 - Continues

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, Turkey 2017 - 2022

Undergraduate, Bursa Technical University, Faculty Of Natural Sciences, Architecture And Engineering, Department Of Mechatronics Engineering, Turkey 2012 - 2017

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, Yüksek Sıcaklık Endüstriyel Tekerlek Uygulamaları için Polimer Esaslı Kompozit Malzeme Geliştirilmesi ve Özelliklerinin İncelenmesi, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2022

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Polymeric Materials

Academic Positions

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2021 - Continues

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Investigation of microstructural, hardness, and wear properties of AlCrCuFeNi high entropy alloys produced by hot-pressing with the enhancement of manufacturability through electroless Ag incorporation**
ÇELEBİ M., GÜLER O., KARABACAK A. H., ÇANAKÇI A., AKÇAY S. B., KOCAMAN M., ÇUVALCI H., VAROL T.
Tribology International, vol.201, 2025 (SCI-Expanded)
- II. **Effect of expandable graphite content on the physical, thermal and mechanical properties of novolac matrix composites: Halogen-free flame-retardant polymer composites**
Kocaman M., Akçay S. B., Güler O., Çuvalcı H., Varol T.
DIAMOND AND RELATED MATERIALS, vol.150, 2024 (SCI-Expanded)
- III. **Enhancing mechanical properties and tribological performance through boron carbide hybridization in Novolac matrix graphite composites under dry sliding condition**
Kocaman M., Akçay S. B., Güler O., Çuvalcı H., Varol T.
TRIBOLOGY INTERNATIONAL, vol.199, 2024 (SCI-Expanded)
- IV. **Effect of the Ag coated ABS granules and hot-pressing temperature on the microstructure evolution and properties of novel Ag/ABS composites**
Akçay S. B., Kocaman M., Güler O., Ömür F. D., Varol T., Aslan M., Çava K.
Surfaces and Interfaces, vol.51, 2024 (SCI-Expanded)
- V. **Fabrication of mechanical durable novolac matrix composites with recycled and cost-effective candle-soot nano particles**
Kocaman M., Güler O., Çuvalcı H., Akçay S. B.
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, 2024 (SCI-Expanded)
- VI. **Pre-hardening water quenching effect on the wear resistance of TiCN coated 4140 steels**
YALÇIN E. D., GÜLER O., KARABACAK A. H., ÇANAKÇI A., VAROL T., KOCAMAN M., ÇELEBİ M., AKÇAY S. B.
SURFACE & COATINGS TECHNOLOGY, vol.480, 2024 (SCI-Expanded)
- VII. **Surface modification for improving interfacial, mechanical and thermal performance characteristics in epoxy composites: Electroless nickel enhancement of dendritic copper particle-reinforced epoxy**
Akçay S. B., Kocaman M., Çelebi M., Güler O., Varol T.
Surface and Coatings Technology, vol.478, 2024 (SCI-Expanded)
- VIII. **The effect of recycled zinc powder content on the properties of novel novolac matrix hybrid composites**
Kocaman M., Akçay S. B., Güler O., Çuvalcı H., Varol T., Çuvalcı O.
TRIBOLOGY INTERNATIONAL, vol.188, 2023 (SCI-Expanded)
- IX. **The effect of novel advanced method on the properties of novolac hybrid nanocomposites reinforced with carbon nanotube and glass fiber**
Kocaman M., Çuvalcı H., Çanakçı A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.140, no.36, 2023 (SCI-Expanded)
- X. **The evolution of tribological properties of graphite and glass fiber reinforced novolac matrix hybrid composites**
KOCAMAN M., ÇUVALCI H.
POLYMER COMPOSITES, vol.43, no.12, pp.9100-9118, 2022 (SCI-Expanded)
- XI. **Structure and tribological properties of composites based on a Novolac matrix with Ni-P electrolytic coating**
Güler O., Kocaman M., Akçay S. B., Çuvalcı H., Varol T.
SURFACE & COATINGS TECHNOLOGY, vol.451, 2022 (SCI-Expanded)
- XII. **Novel Flame-retarded Novolac Matrix Hybrid Composites with Graphite Particles and Glass Fiber Reinforcement**
KOCAMAN M., ÇUVALCI H., GÜLER O.
FIBERS AND POLYMERS, vol.23, no.7, pp.2017-2029, 2022 (SCI-Expanded)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Microstructure, Hardness and Thermal Properties of Hot-Pressed Silver-coated Nylon-based Composites**
Güler O., Kocaman M.
4. INTERNATIONAL PARIS CONGRESS ON APPLIED SCIENCES , Paris, France, 5 - 09 February 2025, pp.282-292, (Full Text)
- II. **PRELIMINARY INVESTIGATION ON THE MATERIAL PROPERTIES OF EXPANDED GRAPHITE STRUCTURES DOPED WITH PHASE CHANGE MATERIAL AND POLYMETHYL METHACRYLATE**
GÜLER O., KOCAMAN M.
5th INTERNATIONAL CONGRESS ON KHAZAR SCIENTIFIC RESEARCH AND INNOVATION, Türkistan, Kazakhstan, 26 - 28 December 2024, pp.343-357, (Full Text)
- III. **EFFECT OF Al₂O₃ FILLER CONTENT ON MECHANICAL PROPERTIES OF NOVOLAC MATRIX COMPOSITES**
KOCAMAN M., ÇUVALCI H., AKÇAY S. B., VAROL T.
5. International Congress on KHAZAR Scientific Research and Innovation, Türkistan, Kazakhstan, 26 - 28 December 2024, pp.336-342, (Full Text)
- IV. **SiC REINFORCEMENT EFFECT ON MECHANICAL PROPERTIES OF NOVOLAC COMPOSITES**
KOCAMAN M., ÇUVALCI H., AKÇAY S. B., VAROL T.
9TH INTERNATIONAL AZERBAIJAN CONGRESS ON LIFE, ENGINEERING, MATHEMATICAL, AND APPLIED SCIENCES CONGRESS, Azerbaijan, 20 - 22 December 2024, pp.717-725, (Full Text)
- V. **Fabrication and Mechanical Characterization of Boron Carbide Reinforced Novolac Composites**
KOCAMAN M., ÇUVALCI H., AKÇAY S. B., VAROL T.
3rd International Conference on Recent Academic Studies ICRAS 2024, Konya, Turkey, 3 - 04 December 2024, pp.768-773, (Full Text)
- VI. **EFFECTS OF B₄C RATIO ON THE RECYCLE-BASED PRODUCTION OF TITANIUM-GRADE 4/B₄C COMPOSITE POWDERS BY WET BALL MILLING**
AKÇAY S. B., VAROL T., KOCAMAN M., Gedikaslan A.
3rd International Conference on Recent Academic Studies, Konya, Turkey, 3 - 04 December 2024, pp.690-697, (Full Text)
- VII. **Investigation of the effects of hot-pressing temperature on Ti-B₄C composite materials produced with 10% B₄C reinforcement**
AKÇAY S. B., VAROL T., ÇUVALCI O., KOCAMAN M., Atik G.
Proceeding Book of 3rd International Conference on Contemporary Academic Research ICCAR 2024, Konya, Turkey, 10 - 11 November 2024, pp.240-246, (Full Text)
- VIII. **Evaluation of Wear Behavior of Al₂O₃ Alloy Produced via Powder Metallurgy Using the Taguchi Method**
AKÇAY S. B., VAROL T., ERDEMİR F., KOCAMAN M.
Proceeding Book of 3rd International Conference on Contemporary Academic Research ICCAR 2024, Konya, Turkey, 10 - 11 November 2024, pp.232-239, (Full Text)
- IX. **Effect of multi-walled CNT dispersion on the Mechanical Properties of Novolac hybrid nanocomposites**
Kocaman M., Çuvalcı H., Çelebi M.
2nd International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 15 - 18 October 2022, pp.126-130, (Full Text)
- X. **Investigation of the effects of Electrolytic Ni-P Coating on the Wear Properties of Glass Fiber and Graphite Reinforced Novolac Matrix Hybrid Composites**
Akçay S. B., Kocaman M., Güler O., Varol T., Çuvalcı H.
2nd International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 15 - 18 October 2022, pp.1132-1136, (Full Text)
- XI. **The Effect of Aging Time and Temperature on The Hardness and Tensile Strength of Al₂O₃ Alloy**

and Al2O3/Graphene/B4C Hybrid Nanocomposite

Çelebi M., Çanakçı A., Kocaman M.

2nd International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 15 - 18 October 2022, pp.1104-1107, (Full Text)

XII. Application of electrolytic Ni-P coatings onto Novolac/Graphite/Glass Fiber hybrid composites

Güler O., Kocaman M.

1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.526-531, (Full Text)

XIII. Tribological properties of glass fiber reinforced Novolac/Gr hybrid composites

Kocaman M., Çuvalcı H.

1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.533-538, (Full Text)

XIV. Influence of the graphite content on the tribological properties of Novolac/GF/Gr hybrid composites

Kocaman M., Çuvalcı H., Güler O.

1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.516-522, (Full Text)

XV. Effect of graphite particles on the mechanical and physical properties of Novolac/Gr/Glass fiber hybrid composites

Kocaman M., Çuvalcı H.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.308-314, (Full Text)

XVI. Effect of glass fiber rate on the mechanical and physical properties of Novolac/Gr/Glass fiber hybrid composites

Kocaman M., Çuvalcı H., Güler O.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021, pp.301-307, (Full Text)

Funded Projects

Çanakçı A., Çuvalcı H., Alver Ü., Varol T., Erdemir F., Aslan M., Özkaya S., Güler O., Hekimoğlu G., Karabacak A. H., et al., Project Supported by Higher Education Institutions, Düşünme Tasarlama Üretim Teknolojilerinin Geliştirilmesini Sağlayacak Araştırma ve Geliştirme Atölyesinin Kurulması, 2024 - 2026

Aslan M., Çuvalcı H., Küçükömeroğlu T., Kocaman M., Sert Y., Çava K., Yazgan A., Taşcıoğlu M. E., Project Supported by Higher Education Institutions, Rotil yatakları için katkılı Polioksümetilen (POM) malzemesinin tribolojik özelliklerinin belirlenmesi, 2023 - 2024

Aslan M., Çuvalcı H., Kocaman M., Çava K., Günaçar A. F., Erdemir A. F., Öztürk M., Adanur C., Sarkı G., Project Supported by Higher Education Institutions, Hafif silah gövdelerinde cam elyaf takviyeli Poliamid 66 kompozitlerin kullanım özelliklerine doğal ve suni yaşlandırma etkisinin incelenmesi, 2022 - 2024

SARI A., GÜLER O., KOCAMAN M., AKÇAY S. B., ÇAKIR E., ÇANAKÇI A., ALVER Ü., ÇUVALCI H., VAROL T., ASLAN M., et al., Project Supported by Higher Education Institutions, MetalGenleştirilmiş GrafitKarbonize edilmiş Polimer Köpük Kompozit Faz Değiştiren Malzemelerinin Isıl Enerji Depolama Amaçlı Geliştirilmesi, 2022 - 2024

Varol T., Alver Ü., Yıldız F., Erdemir F., Kaya M. F., Çanakçı A., TUBITAK Project, Seçici Lazer Ergitme Yöntemiyle Proton Değişim Membranlı Su Elektrolizi Hücreleri İçin Geri Dönüşüm Temelli, Düşük Maliyetli Ve Yüksek Performanslı Sıvı/Gaz Difüzyon Plakaların Geliştirilmesi, 2022 - 2024

Metrics

Publication: 29

Citation (WoS): 64

Citation (Scopus): 76

H-Index (WoS): 6

H-Index (Scopus): 6

Non Academic Experience

Public Corporation, Türk Standardları Enstitüsü, Trabzon Ürün Belgelendirme Müdürlüğü, Mühendis
National Education Directorate, FARUK BAŞARAN BİLİM VE SANAT MERKEZİ, Proje Eğitmeni, Öğitmen