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Publons / Web Of Science ResearcherID: AAF-6586-2021

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Research Areas

Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of TMAB and ZrC concentration on mechanical and morphological properties of Ni-B/ZrC composite electrodeposition**
Hükümdar Ö., Kumlu U., Keskin A., Akar M. A.
MATERIALPRUEFUNG/MATERIALS TESTING, vol.68, no.1, pp.1-19, 2025 (SCI-Expanded)
- II. **Effects of different production methods and hybridization on mechanical characteristics of basalt, flax, and jute fiber-reinforced composites**
Kumlu U., Karacor B., Özcanlı M.
MATERIALS TESTING, 2024 (SCI-Expanded)
- III. **Numerical investigation of crash behavior of vehicle side door beams under high-speed pole side impacts**
Akar M. A., Kumlu U., Yıldızhan Ş.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, vol.237, no.14, pp.3408-3418, 2023 (SCI-Expanded)
- IV. **Hybrid jute/carbon fiber composites: optimum post-curing time**
Karaçor B., Özcanlı M., Kumlu U.
IRANIAN POLYMER JOURNAL (ENGLISH EDITION), vol.32, no.11, pp.1443-1454, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **Acoustic emission reduction in vehicles by using MPP structures in wheel ARCH liner structures**
Gültekin Y., Jean T., Akar M. A., Kumlu U.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.46, no.6, pp.1749-1755, 2024 (ESCI)
- II. **The Impact of Using Dimpled Surfaces on Ahmed Body on The Flow Characteristics**
AYDIN V. K., AKAR M. A., BAŞ O., KUMLU U.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.7, no.3, pp.1358-1373, 2024 (Peer-Reviewed Journal)
- III. **Investigation of the under-vehicle plastic protection parts manufactured by core-back injection process in terms of strength and weight**

GÜLTEKİN Y., AKAR M. A., ALTINDAĞ A., DURAN D., KUMLU U.

International Journal of Automotive Engineering and Technologies, vol.12, no.4, pp.133-143, 2023 (Peer-Reviewed Journal)

IV. **Analysis of the wear and friction of brake pad added cashew and ulexite using ANSYS**

Akar M. A., Sugözü İ., Bilgi G., Kumlu U.

International Journal of Automotive Engineering and Technologies, vol.12, no.3, pp.83-91, 2023 (Peer-Reviewed Journal)

V. **Tensile and Morphological Properties of Waste Tire Rubber Granule/Polyester Polymer Matrix Composite**

Yıldızhan Ş., Yel F., Akar M. A., Kumlu U.

Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.37, no.3, pp.773-779, 2022 (Peer-Reviewed Journal)

VI. **The Usage of Natural Fibers for Automotive Applications**

Akar M. A., Tosun A. T., Yel F., Kumlu U.

Macromolecular Symposia, vol.404, no.1, pp.1-3, 2022 (Scopus)

VII. **Potential of Using Agricultural Waste Composites as Thermal Insulation Material**

Serin H., Güzel G., Kumlu U., Akar M. A.

Macromolecular Symposia, vol.404, no.1, pp.1-3, 2022 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis and Mechanical Properties Investigation of Ni-P/Ni-B-Cr₃C₂ Duplex Composite Coatings**
AŞGAN S. M., HÜKÜMDAR Ö., KUMLU U., KESKİN A., AKAR M. A.
11. INTERNATIONAL EUROPEAN CONGRESS ON ADVANCED STUDIES IN BASIC SCIENCES, ROMA, Italy, 11 November 2024, pp.128-141
- II. **Effect of Pulse Frequency on Mechanical Properties of Electrodeposition Ni-W/Al₂O₃ Nanocomposites on Copper Substrate**
AYBACI Y., YALYANÇ F., HÜKÜMDAR Ö., KUMLU U., KESKİN A., AKAR M. A.
CUKUROVA 13th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE, Adana, Turkey, 01 September 2024, pp.400-412
- III. **Investigation of The Effect of Bath Temperature on Ni-W/Al₂O₃ Nanocomposite Coatings Produced by Electrodeposition Method**
AYBACI Y., YALYANÇ F., KOCABUĞA F. N., HÜKÜMDAR Ö., KUMLU U., KESKİN A., AKAR M. A.
CUKUROVA 13th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE, Adana, Turkey, 01 September 2024, pp.272
- IV. **Examination of different material designs through finite element analysis on the military vehicle platform**
Kumlu U., Karaçor B., Kılınç Ö., Aslan A.
IV. International Siirt Conference on Scientific Research, Siirt, Turkey, 17 - 18 November 2023, pp.268-286
- V. **Crashworthiness analysis of circular and elliptical cross-sectional beams in vehicle door**
Kumlu U., Karaçor B., Özkeser B., Aslan A.
IV. International Siirt Conference on Scientific Research, Siirt, Turkey, 17 - 18 November 2023, pp.287-300
- VI. **Ballistic evaluation of armor plates at different angles**
Kumlu U., Akar M. A., Başer D., Hükümdar Ö., Karaçor B.
2nd International Congress on Multidisciplinary Natural Sciences, Ankara, Turkey, 01 December 2022, pp.230-240
- VII. **The effect of air gap of multi-layered armour configuration during ballistic impact**
Kumlu U., Aldatmaz İ., Akar M. A., Karaçor B., Ercan E. S., Erdal D.
7th International Mediterranean Science and Engineering Congress (IMSEC 2022), Antalya, Turkey, 24 - 26 October 2022, vol.1, no.236, pp.565-570
- VIII. **Effect of rotational thrust on different geometries in crashing boxes**
Kumlu U., Erdal D., Karaçor B., Akar M. A.

7th International Mediterranean Science and Engineering Congress (IMSEC 2022), Antalya, Turkey, 24 - 26 October 2022, vol.1, no.212, pp.508-514

IX. INVESTIGATION OF IMPACT STRENGTH OF EPS/RRG/CHOPPED FIBERS/POLYMER RESIN COMPOSITES

Soyusinmez T, Güzelipek O, Serin H, Özcanlı M, Kumlu U, Yıldızhan Ş.

Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22 - 24 April 2022, pp.147-153

X. Evaluation of Jute and Cotton Fabrics as Reinforcement Agent in Polymer Matrix Composites

Tosun A. T., Akar M. A., Kumlu U.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.311

XI. Crashworthiness analysis of heavy truck chassis by using finite element analysis

Karaçor B., Kapulu İ., Kumlu U., Özcanlı M.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.635-642

XII. Recycled Waste Tyre Granules as Filler Material in Polymer Matrix: Mechanical Characterization Assessment

Yel F., Akar M. A., Kumlu U.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.310

XIII. Crashworthiness Analysis of Vehicle Side Door Beam with Finite Element Analysis

Kumlu U., Akar M. A., Özcanlı M., Serin H., Çalık A.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.615

Metrics

Publication: 25

Non Academic Experience

KOLUMA OTOMOTİV ENDÜSTRİ AŞ.