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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey
2019 - Continues

Postgraduate, Istanbul Technical University, Makina, Makina Mühendisliği, Turkey 2017 - 2019

Undergraduate Double Major, Istanbul Technical University, İşletme Fakültesi, İşletme Mühendisliği, Turkey 2014 - 2018

Undergraduate, Istanbul Technical University, Makina Fakültesi, Makina Mühendisliği, Turkey 2012 - 2017

Dissertations

Postgraduate, TERMOPLASTİKLERİN ULTRASONİK KAYNAĞI İÇİN L VE LT MODLARINDA ÇALIŞAN REZONATÖR
TASARIMI, Istanbul Technical University, Makina, Makina Mühendisliği, 2019

Research Areas

Mechanical Engineering, Tribology, Mechanical Properties, Biomaterials, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical
Engineering, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Effect of build orientation on the green tribological properties of multi-jet fusion manufactured PA12 parts**
GAVCAR B., Sumer E. H., SAĞBAŞ B., Katiyar J. K.
Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, vol.237, no.12,
pp.2213-2223, 2023 (SCI-Expanded)

Articles Published in Other Journals

- EFFECT OF POST-PROCESSES ON TRIBOLOGICAL BEHAVIOR OF ADDITIVELY MANUFACTURED PA12**

PARTS

Sağbaşı B., Gavcar B.

JOURNAL OF THE BALKAN TRIBOLOGICAL ASSOCIATION, vol.30, no.6, pp.1015-1023, 2024 (Scopus)

II. An Overview on Additive Manufacturing of Titanium Alloys for Biomedical Applications

SAĞBAŞ B., GAVCAR B.

Uluborlu Mesleki Bilimler Dergisi, 2022 (Peer-Reviewed Journal)

Books

I. A Review of Machine Learning for Additive Manufacturing

Gavcar B.

in: Engineering and Technology Management in Challenging Times, FERHAN ÇEBİ, AHMET TEZCAN TEKİN, ADNAN ÇORUM, GİZEM DENİZ CÖMERT, GULİN İDİL S. BOLATAN, Editor, Springer Nature, Zug, pp.101-117, 2024

II. Mechanical post-processing techniques for metal additive manufacturing

Gavcar B., Sağbaşı B.

in: Post-processing Techniques for Additive Manufacturing, Dilshad Ahmad Khan, Faiz Iqbal, Zafar Alam, Editor, CRC, New York, New York, pp.21-44, 2023

Papers Published in Refereed Scientific Meetings

I. DESIGN AND MECHANICAL ANALYSIS OF Ti6Al4V AUXETIC ACETABULAR CUP

Gavcar B., Atıcı F. M., Ekşi Altan M.

12th INTERNATIONAL MAY 19 INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Samsun, Turkey, 24 - 25 December 2024, pp.262

II. EFFECT OF POST-PROCESSES ON TRIBOLOGICAL BEHAVIOR OF ADDITIVELY MANUFACTURED PA12 PARTS

Sağbaşı B., Gavcar B.

11th International Conference on Tribology – BALKANTRIB '24, 26 - 28 September 2024, pp.97

III. SWOT Analysis for Machine Learning Methods in Additive Manufacturing

Gavcar B.

5th International Engineering and Technology Management Summit, İstanbul, Turkey, 19 - 21 October 2023

IV. EFFECT OF BUILD ORIENTATION AND SURFACE POST PROCESS ON THE TRIBOLOGICAL PROPERTIES OF MJF MANUFACTURED PA12 PARTS

Gavcar B., Sağbaşı B.

6th International Congress on 3D Printing Technologies and Digital Industry, 22 - 23 November 2022, pp.66

V. POLYETHERETHERKETONE (PEEK) AND ITS ADDITIVE MANUFACTURING FOR BIOMEDICAL APPLICATIONS

GAVCAR B., SAĞBAŞ B.

6th International Conference on Advances in Mechanical Engineering, 20 October 2021

VI. Additive Manufacturing of Titanium Alloys for Biomedical Applications.

SAĞBAŞ B., GAVCAR B.

5. International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry, Turkey, 3 - 05 June 2021

VII. A Mathematical Approach for Assembly Line Balancing: 6060 Built-in Oven Problem

GAVCAR B., Büyükkız B., BELDEK T., KONYALIOĞLU A. K., ÇEBİ F.

4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, Turkey, 18 - 21 December 2018

Metrics

Publication: 12

Citation (Scopus): 6

H-Index (Scopus): 1