

Res. Asst. MUSTAFA KAŞ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AIF-3917-2022

ScopusID: 57223331064

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 2019 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Turkey 2016 - 2019

Undergraduate, Gaziantep University, Faculty Of Engineering, Department Of Mechanical Engineering (English), Turkey 2011 - 2016

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Production and characterization of geometry design for selective laser melting method graded porous structures, Gazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2019

Research Areas

Machine Elements, Non-traditional manufacturing methods, Welding Methods

Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. Directed energy deposition of PH 13–8 Mo stainless steel: microstructure and mechanical property analysis

KAŞ M., Muslim T., YILMAZ O., Karagoz T., TÜREDİ E., GÜMÜŞ S., Bayram A.

International Journal of Advanced Manufacturing Technology, vol.132, no.1-2, pp.701-715, 2024 (SCI-Expanded)

II. **Radially graded porous structure design for laser powder bed fusion additive manufacturing of Ti-6Al-4V alloy**

Kaş M., Yılmaz O.

Journal of Materials Processing Technology, vol.296, 2021 (SCI-Expanded)

III. **Micromechanical Characterization of Additively Manufactured Ti-6Al-4V Parts Produced by Electron Beam Melting**

ÖZERİNÇ S., Kaygusuz B., KAŞ M., Motallebzadeh A., Nesli S., Duygulu O., YILMAZ O.

JOM, vol.73, no.10, pp.3021-3033, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. **Influence of laser energy density on geometrical forms produced by laser metal deposition of PH 13-8 Mo stainless steel**

Muslim T., Karagöz T., Yılmaz O., Kaş M., Özkök R.

Journal of Additive Manufacturing Technologies, vol.1, no.3, pp.1-5, 2021 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

I. **MICROSTRUCTURE AND BONDING MECHANISM EVALUATION FOR BI-METALLIC SS 316-INCONEL718 PRODUCED BY DIRECTED ENERGY DEPOSITION PROCESS**

Kaş M., Yılmaz O., Aslan Çığır B., Kırılı O., Yücel B., Dak M.

AMCTURKEY 2022, Aydın, Turkey, 6 - 08 October 2022, pp.110-111

II. **Influence of laser energy density on geometrical forms produced by laser metal deposition of PH 13-8 Mo stainless steel**

Muslim T., Karagöz T., Yılmaz O., Kaş M., Özkök R.

Additive Manufacturing Conference , İstanbul, Turkey, 9 - 10 September 2021, pp.6

III. **Small-Scale Mechanical Behavior of Ti-6Al-4V Parts Produced by Electron Beam Melting**

Özerinç S., Kaygusuz B., Kaş M., Motallebzadeh A., Nesli Ş., Duygulu Ö., Yılmaz O.

Additive Manufacturing Conference , İstanbul, Turkey, 9 - 10 September 2021, pp.46

IV. **DEPOSITION TOOL PATH STRATEGIES FOR TOPOLOGICALLY OPTIMISED AIRCRAFT PART FOR DED**

Yazıcı Ö. F., Kaş M., Atalay İ., Özkök R., Yılmaz O.

Additive Manufacturing Conference , İstanbul, Turkey, 9 - 10 September 2021, pp.41

V. **THERMOMECHANICAL SIMULATION ANALYSIS OF INCONEL 718 ALLOY PARTS PRODUCED BY ADDITIVE MANUFACTURING**

Kaş M., Yılmaz O., Güler C., Karagöz T., Metin Ç.

The International Conference of Materials and Engineering Technology (TICMET'xx20), Gaziantep, Turkey, 5 - 07 November 2020

VI. **DESIGN AND VALIDATION OF GRADED POROUS STRUCTURES PRODUCED BY POWDER BED FUSION PROCESS**

YILMAZ O., KAŞ M.

AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019

VII. **Seçici Lazerle Ergitme Yöntemi İle Üretilen Inconel 625 Alaşımli Parçada Yüzey Bütünlüğünün İncelenmesi**

KITAY Ö., TAŞCIOĞLU E., KAŞ M., NESLİ Ş., KAYNAK Y., YILMAZ O.

18th International Conference on Machine Design and Production (UMTIK 2018), 3 - 06 July 2018

Supported Projects

YILMAZ O., Aslan ıđır B., XİONG W., KAŞ M., ÜNAL R., KARA L., Project Supported by Higher Education Institutions, Yönlendirilmiş Enerji Yıđma Eklemeli İmalat Yönteminde uzay ve havacılık malzemelerinin fonksiyonel derecelenmiş yapı uygulamalarının ısı model tabanlı proses geliştirilmesi ve deneysel doğrulanması, 2024 - Continues

YILMAZ O., MOLLAMAHMUTOđLU M., KAŞ M., BAYKASOđLU C., Project Supported by Higher Education Institutions, Lazer Metal Yıđma Yöntemi ile Üretilen Fonksiyonel Geçişli Malzemelerde Geçiş Yüzdesinin Mekanik Özelliklere Etkisinin Araştırılması, 2023 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Additive Manufacturing Association (TAMA), Member, 2021 - Continues, Turkey

Metrics

Publication: 11

Citation (WoS): 16

Citation (Scopus): 27

H-Index (WoS): 1

H-Index (Scopus): 2

Scholarships

2214/A Overseas Doctorate Research Scholarship Program, TUBITAK, 2023 - Continues

Performance-Based Scholarships Programme for PhD and Post-Doc Scholars, TUBITAK, 2023 - Continues

2211/C - Domestic Priority Fields Doctoral Scholarship Program, TUBITAK, 2022 - Continues

Visiting PhD Student, University, 2024 - 2024