

## Asst. Prof. ELİF GÜLTÜRK

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: IQZ-0110-2023

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### Education Information

Doctorate, Izmir Institute Of Technology, Institute Of Engineering And Natural Sciences, Turkey 2005 - 2010

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Turkey 2000 - 2004

Undergraduate, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1995 - 2000

### Dissertations

Doctorate, The effects of diatom frustule filling on the quasi-static and high strain rate mechanical behavior of polymer matrices, Izmir Institute Of Technology, 2010

### Research Areas

Engineering and Technology

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of filling materials on the tribological performance of polytetrafluoroethylene in different wear modes**  
Fidan S., Korkusuz O. B., Özzaim Toker P., Gültürk E., Ateş B. H., Sınmazçelik T.  
POLYMER COMPOSITES, vol.45, no.15, pp.13561-13577, 2024 (SCI-Expanded)
- II. **A modified approach on modeling-design-optimization procedure for cutting of pure titanium using wire electric discharge machining (WEDM)**  
Baytok Y., Aydın L., DEVECİ H. A., GÜLTÜRK E.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.238, no.5, pp.2305-2319, 2024 (SCI-Expanded)
- III. **Calcined and natural frustules filled epoxy matrices: The effect of volume fraction on the tensile and compression behavior**  
GÜLTÜRK E., Guden M., Tasdemirci A.  
COMPOSITES PART B-ENGINEERING, vol.44, no.1, pp.491-500, 2013 (SCI-Expanded)
- IV. **Diatom frustule-filled epoxy: Experimental and numerical study of the quasi-static and high strain rate compression behavior**

Tasdemirci A., Yuksel S., Karsu D., Gulturk E., Hall I. W., Guden M.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND  
PROCESSING, vol.480, no.1-2, pp.373-382, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Novel Approach to Improve Tensile Strength of Al/Mg Hybrid Friction Stir welding Joint by Stochastic Optimization**  
Aydin O., Gültürk E.  
Journal of Artificial Intelligence and Data Science, vol.2, no.1, pp.31-42, 2022 (Peer-Reviewed Journal)
- II. **Modeling and Optimum Parameters of CO2 Laser MIG Hybrid Welding Process**  
Türkoğlu R., Aydın L., Gültürk E.  
The International Journal of Materials and Engineering Technology, vol.4, no.2, pp.91-100, 2021 (Peer-Reviewed Journal)
- III. **Diyatomitlerin Polimer Kompozitlerde Kullanımı ve Diyatomit Katkılı Epoksi Kompozitlerin Termal Özellikleri**  
Gültürk E., Guden M.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.13, no.3, pp.13-21, 2011 (Peer-Reviewed Journal)
- IV. **Thermal and acid treatment of diatom frustules**  
Gültürk E.  
Journal of Achievements in Materials and Manufacturing Engineering, vol.46, no.2, pp.196-203, 2011 (Scopus)

## Books & Book Chapters

- I. **Maximization of Buckling Resistance for Lightweight Vegetable Based Hybrid Laminated Composites Combined with Synthetic Fibers**  
Savran M., Aydın L., Deveci H. A., Gültürk E.  
in: Vegetable Fiber Composites and their Technological Applications, Mohammad Jawaid, Anish Khan, Editor, Springer, London/Berlin, Singapore, pp.81-105, 2021

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Parametric Study of the Scratch Behavior of Glass Fiber Reinforced Polyamide 66**  
Özzaim Toker P., Korkusuz O. B., Gültürk E., Sınmazçelik T.  
2nd International Canadian Scientific Research Congress, Toronto, Canada, 24 - 25 October 2024, pp.550-556
- II. **Investigation of the Sliding Wear Performance Of Glass Fiber Reinforced Polyamide 66 Under Different Conditions**  
Korkusuz O. B., Özzaim Toker P., Gültürk E., Sınmazçelik T.  
2nd International Canadian Scientific Research Congress, Toronto, Canada, 24 October - 25 November 2024, pp.557-564
- III. **The Effect of Crane Design on Stress Distribution for the Bridge Crane**  
Mercan S., Çimen M. Ş., Gültürk E.  
the International Congress on Advances in Welding Science and Technology for Construction Energy and Transportation Systems AWST-2011, Antalya, Turkey, 24 - 25 October 2011, pp.279-286
- IV. **ARAÇ FAR VE ARKA STOP AYDINLATMA ÜRÜNLERİNİN ENDÜSTRİYEL ROBOT YARDIMI İLE OTOMATİK ÖLÇÜM SİSTEM ENTEGRASYONU**  
Gültürk E., Aktürk K.

12. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 23 - 25 December 2023, pp.25-33

- V. **Optimization of Process Parameters for Minimizing Surface Roughness in Abrasive Water Jet Machining**  
Dalkılıç Ö. F., Aydın L., Gültürk E.  
International Cappadocia Scientific Research Congress, Nevşehir, Turkey, 15 - 17 December 2021, pp.78
- VI. **The Effect of Erodent Particle Size on Erosion Wear of Glass Fiber Reinforced Polyamide Composites**  
Gültürk E.  
12th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES December 24-25, 2021 / Bingöl, Turkey, 24 - 25 December 2021, pp.23-33
- VII. **Multiple Nonlinear Neuro-Regression Modeling And Design Optimization Of The Rocket's Different Sub-Units**  
Dinç M., Sargın T., Aydın L., Gültürk E.  
1st International Congress on Artificial Intelligence and Data Science, İzmir, Turkey, 26 - 28 November 2021, pp.330-336
- VIII. **Katı Partikül Çarpma Açısının Cam Fiber Takviyeli Polyamid Kompozitlerin Erozif Aşınma Davranışına Etkisi**  
Gültürk E., Özzaim P., Korkusuz O. B.  
8.International Congress on Engineering Architecture and Design, Ankara, Turkey, 6 - 07 December 2021, pp.385-394
- IX. **A Novel Approach For Optimization of High Speed End Milling Parameters**  
Kavak B., Aydın L., Gültürk E.  
International Congress on Multidisciplinary Natural Sciences and Engineering (ICOMNAS 2021) , Ankara, Turkey, 1 - 02 November 2021, pp.25
- X. **Neuro Regression Analysis and Optimization of Laser Powder Deposition AlSi10Mg Alloy**  
Çiftçioğulları U., Aydın L., Gültürk E.  
International Congress on Multidisciplinary Natural Sciences and Engineering (ICOMNAS 2021), Ankara, Turkey, 1 - 02 November 2021, pp.27
- XI. **Stochastic Optimization of Process Parameters for Pure Titanium Using Wire Electric Discharge Machining (WEDM) Process**  
Baytok Y. M., Aydın L., Gültürk E.  
International Conference on Engineering Technologies ICENTE'04, Konya, Turkey, 19 - 21 November 2020, vol.1, pp.281-286
- XII. **Modeling and Optimum Parameters of CO2 Laser MIG Hybrid Welding Process**  
Türkoğlu R., Aydın L., Gültürk E.  
The International Conference of Materials and Engineering Technology (TICMET'20), Gaziantep, Turkey, 5 - 07 November 2020, pp.515-525

## Metrics

Publication: 21

Citation (WoS): 19

Citation (Scopus): 21

H-Index (WoS): 3

H-Index (Scopus): 3