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International Researcher IDs

ScholarID: sS1yjHgAAAAJ

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Publons / Web Of Science ResearcherID: T-6807-2017

ScopusID: 55588903500

Yoksis Researcher ID: 57578

Education Information

Post Doctorate, Syddansk Universitet, Centre for Industrial Mechanics, Denmark 2022 - Continues

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mechanical Engineering, Turkey 2012 - 2019

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Materials and Manufacturing, Turkey 2009 - 2012

Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 2005 - 2009

Foreign Languages

English, C1 Advanced

German, A2 Elementary

Dissertations

Doctorate, 6061 Al Alaşımının Şekillendirilebilirliğinin Isıl İşlem Koşullarına Bağlı Olarak Optimizasyonu, Istanbul Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2019

Postgraduate, Akımsız Ni-B kaplamaların 7075 Al alaşımının yorulma davranışına etkisinin incelenmesi, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, 2012

Research Areas

Mechanical Engineering, Construction and Manufacturing, Non-traditional manufacturing methods, Material, Plastic Forming Methods, Mechanical, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Mechanical Testing, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Makina, Makina Mühendisliği, 2023 - Continues

Researcher, Syddansk Universitet, Centre for Industrial Mechanics, 2022 - Continues

Researcher, Universite de Lille II, École Nationale Supérieure Des Arts Et Industries Textiles, 2018 - 2018
Research Assistant, Istanbul Technical University, Makina, Makina Mühendisliği, 2012 - 2018
Research Assistant, Sakarya University, Faculty Of Engineering, Department Of Mechanical Engineering, 2009 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On the effect of small laser spot size on the mechanical behaviour of 316L stainless steel fabricated by L-PBF additive manufacturing**
Yildiz R. A., Popa A., Malekan M.
Materials Today Communications, vol.38, 2024 (SCI-Expanded)
- II. **A numerical investigation on the effect of transfer medium in explosive forming**
Yildiz R. A.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.126, pp.3249-3265, 2023 (SCI-Expanded)
- III. **Numerical Analysis of the Damage Evolution of DP600 Steel Using Gurson-Tvergaard-Needleman Model**
Yildiz R. A.
STEEL RESEARCH INTERNATIONAL, vol.94, no.1, 2023 (SCI-Expanded)
- IV. **Explosive Forming of Precipitation-Hardened Aluminum Alloy Tubes**
Yildiz R. A.
Combustion, Explosion and Shock Waves, vol.58, no.6, pp.738-750, 2022 (SCI-Expanded)
- V. **Investigation of the explosive type on the high strain forming of OFHC copper tube**
Yildiz R. A.
Journal of Strain Analysis for Engineering Design, vol.57, no.4, pp.266-278, 2022 (SCI-Expanded)
- VI. **Hydrodynamic modeling of e-textile fabric washing behavior by the Coupled Eulerian-Lagrangian method**
TETİK T., Yildiz R. A., Labanieh A. R., Yoruk B., Kursun Bahadır S., Kalaoglu F., Koncar V.
TEXTILE RESEARCH JOURNAL, vol.91, pp.1117-1131, 2021 (SCI-Expanded)
- VII. **Influence of heat treatments on the formability of the 6061 Al alloy sheets: experiments and GTN damage model**
Yildiz R. A., Yilmaz Ş.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.113, no.7-8, pp.2277-2299, 2021 (SCI-Expanded)
- VIII. **Effect of electroless Ni-B and Ni-W-B coatings on the corrosion-fatigue behaviour of 7075 Al alloy**
Yildiz R. A., GENEL K., Gülmez T.
INTERNATIONAL JOURNAL OF FATIGUE, vol.144, 2021 (SCI-Expanded)
- IX. **Stress-Strain Properties of Artificially Aged 6061 Al Alloy: Experiments and Modeling**
Yildiz R. A., Yilmaz Ş.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.29, no.9, pp.5764-5775, 2020 (SCI-Expanded)
- X. **Experimental Investigation of GTN model parameters of 6061 Al alloy**
Yildiz R. A., Yilmaz Ş.
European Journal of Mechanics, A/Solids, vol.83, 2020 (SCI-Expanded)
- XI. **Springback Behavior of DP600 Steel: An Implicit Finite Element Simulation**
Sen H., Yilmaz Ş., Yildiz R. A.
JOURNAL OF ENGINEERING RESEARCH, vol.8, no.2, pp.252-264, 2020 (SCI-Expanded)
- XII. **The verification of strains obtained by grid measurements using digital image processing for sheet metal formability**
Yildiz R. A., Yilmaz Ş.
JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, vol.52, no.8, pp.506-514, 2017 (SCI-Expanded)
- XIII. **CORROSION RESISTANCE OF AS-PLATED AND HEAT-TREATED ELECTROLESS DUBLEX Ni-P/Ni-B-W**

COATINGS

Yuksel B., Erdogan G., Bastan F. E., Yildiz R. A.

MATERIALI IN TEHNOLOGIJE, vol.51, no.5, pp.837-842, 2017 (SCI-Expanded)

XIV. Effect of Annealing Temperature on the Corrosion Resistance of Electroless Ni-B-Mo Coatings

Serin I. G., Gökşenli A., Yuksel B., YILDIZ R. A.

JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.24, no.8, pp.3032-3037, 2015 (SCI-Expanded)

XV. Heat Treated and As Plated Electroless Duplex Ni P Ni B Coatings Evaluation of Hardness and Wear Resistance

Dil G., GÖKŞENLİ A., Çallı Ç., MUHAFFEL F., AYDENİZ A. İ., YILDIZ R. A., YÜKSEL B.

Advanced Materials Research, no.853, pp.264-269, 2014 (SCI-Expanded)

Articles Published in Other Journals

I. Evaluation of fracture toughness and Charpy V-notch test correlations for selected Al alloys

Yildiz R. A.

European Mechanical Science, vol.6, no.1, pp.1-8, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. A Numerical Study of Shot Peening Process Parameters on the 7075-T6 Al Alloy

Yıldız R. A.

8th International Conference on Materials Science and Nanotechnology For Next Generation, Elazığ, Turkey, 14 - 16 July 2021, pp.134

II. Applications Of Metal Additive Manufacturing In Aircraft Components

Yıldız R. A.

International Conference on Smart Innovation in Science and Engineering, Salalah, Oman, 7 - 08 April 2021, pp.30-31

III. Wear Modeling of A Conductive Yarn

TETİK T., YÖRÜK B., YILDIZ R. A., İBANİEH A., KURŞUN BAHADIR S., KALAOĞLU F., VŁADAN K.

2nd International Conference on Life and Engineering Sciences (ICOLES 2019), 27 - 29 June 2019

IV. Investigation the Effect of the Stabilizer for the Electroless Nickel – Boron Plating

Yıldız R. A., Genel K., Gülmez T.

International Conference on Mining, Material and Metallurgical Engineering, Seoul, South Korea, 15 - 17 April 2016, pp.1

V. Effect of Heat Treatments for Electroless Deposited Ni-B and Ni-W-B Coatings on 7075 Al Alloy

Yıldız R. A., Genel K., Gülmez T.

2nd International Conference on Mechanical Design and Manufacturing, Phuket, Thailand, 27 - 28 December 2015, vol.5, pp.83-86

VI. Heat Treated and As-Plated Electroless Duplex Ni-P/Ni-B Coatings: Evaluation of Hardness and Wear Resistance

Dil G., Gökşenli A., Callı C., Muhaffel F., Aydeniz A. İ., Yildiz A., Yuksel B.

International Conference on Materials Science, Machinery and Energy Engineering (MSMEE 2013), Hong Kong, PEOPLES R CHINA, 24 - 25 December 2013, vol.853, pp.264-265

VII. Effect of annealing temperature on the corrosion resistance of electroless produced Ni-B-W coatings

Yildiz R. A., Gökşenli A., Yüksel B., Muhaffel F., Aydeniz A.

2012 International Conference on Engineering Materials, ICEM 2012, Singapore, 30 - 31 December 2012, vol.651, pp.263-268

Supported Projects

Yıldız R. A., GÖKÇEKAYA Ö., Tabanlı R. M., MALEKAN M., Yılmaz Ş., Öztekin V., Kayıhan M., Project Supported by Higher Education Institutions, EKLEMELİ İMALAT İLE ÜRETİLEN METAL MALZEMELERİN STATİK VE DEĞİŞKEN YÜKLER ALTINDAKİ DEFORMASYONUNDA HASAR OLUŞUMUNUN DENEYSEL VE SAYISAL OLARAK İNCELENMESİ, 2024 - Continues

Yıldız R. A., Öztekin V., Project Supported by Higher Education Institutions, Finite Element Modelling of Damage Behavior of 5754 Aluminum Alloy , 2024 - 2026

Yıldız R. A., Malekan M., Universities of Other Countries Supported Project, Failure Analysis of Wrought and Additively Manufactured Metal Parts, 2023 - 2024

Yıldız R. A., TUBİTAK Project, 115A056, 2018 - 2020

Yıldız R. A., Yılmaz Ş., Project Supported by Higher Education Institutions, 6061 Al Alaşımının Şekillendirilebilirliğinin Isıl İşlem Koşullarına Bağlı Olarak Optimizasyonu, 2015 - 2019

Yıldız R. A., Kalaoğlu F., Kurşun S., Tetik T., H2020 Project, Welding of E-Textiles for Interactive Clothing, 2015 - 2019

Yıldız R. A., Gülmez T., Project Supported by Higher Education Institutions, Akımsız Ni B Kaplamanın 7075 Al Alaşımının Yorulma Davranışına Etkisi, 2011 - 2012

Mobility Activity

Post Doc, Post Doc, Syddansk Universitet, Denmark, 2022 - Continues

Research Scholarship Program, Scientific Research, Universite de Lille II, France, 2018 - 2018

Metrics

Publication: 23

Citation (WoS): 126

Citation (Scopus): 154

H-Index (WoS): 6

H-Index (Scopus): 7

Non Academic Experience

University of Southern Denmark

TUBİTAK, Informatics and Information Security Research Center, High Power Microwave Systems

TÜBİTAK

University of Lille