

## Asst. Prof. Raşid Ahmed Yıldız

### Personal Information

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### International Researcher IDs

ScholarID: sS1yjHgAAAAJ

ORCID: 0000-0003-2066-3138

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

ScopusID: 55588903500

### Education Information

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

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

- I. **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)
- II. **Explosive Forming of Precipitation-Hardened Aluminum Alloy Tubes**  
Yıldız R. A.  
Combustion, Explosion and Shock Waves, vol.58, no.6, pp.738-750, 2022 (SCI-Expanded)
- III. **Investigation of the explosive type on the high strain forming of OFHC copper tube**  
Yıldız R. A.  
Journal of Strain Analysis for Engineering Design, vol.57, no.4, pp.266-278, 2022 (SCI-Expanded)
- IV. **Hydrodynamic modeling of e-textile fabric washing behavior by the Coupled Eulerian-Lagrangian method**  
TETİK T., Yıldız 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)
- V. **Influence of heat treatments on the formability of the 6061 Al alloy sheets: experiments and GTN damage model**  
Yıldız R. A., Yılmaz Ş.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.113, no.7-8, pp.2277-2299, 2021 (SCI-Expanded)
- VI. **Effect of electroless Ni-B and Ni-W-B coatings on the corrosion-fatigue behaviour of 7075 Al alloy**  
Yıldız R. A., GENEL K., Gülmez T.  
INTERNATIONAL JOURNAL OF FATIGUE, vol.144, 2021 (SCI-Expanded)
- VII. **Stress-Strain Properties of Artificially Aged 6061 Al Alloy: Experiments and Modeling**  
Yıldız R. A., Yılmaz Ş.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.29, no.9, pp.5764-5775, 2020 (SCI-Expanded)
- VIII. **Experimental Investigation of GTN model parameters of 6061 Al alloy**  
Yıldız R. A., Yılmaz Ş.  
European Journal of Mechanics, A/Solids, vol.83, 2020 (SCI-Expanded)
- IX. **Springback Behavior of DP600 Steel: An Implicit Finite Element Simulation**  
Sen H., Yılmaz Ş., Yıldız R. A.  
JOURNAL OF ENGINEERING RESEARCH, vol.8, no.2, pp.252-264, 2020 (SCI-Expanded)
- X. **The verification of strains obtained by grid measurements using digital image processing for sheet metal formability**  
Yıldız R. A., Yılmaz Ş.  
JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, vol.52, no.8, pp.506-514, 2017 (SCI-Expanded)
- XI. **CORROSION RESISTANCE OF AS-PLATED AND HEAT-TREATED ELECTROLESS DUBLEX Ni-P/Ni-B-W COATINGS**  
Yuksel B., Erdogan G., Bastan F. E., Yıldız R. A.  
MATERIALI IN TEHNOLOGIJE, vol.51, no.5, pp.837-842, 2017 (SCI-Expanded)
- XII. **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)
- XIII. **Heat Treated and As Plated Electroless Duplex Ni P Ni B Coatings Evaluation of Hardness and Wear Resistance**  
Dil G., GÖKŞENLİ A., Çalılı 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., labameh a., KURŞUN BAHADIR S., KALAOĞLU F., Vladan 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., Calli C., Muhaffel F., Aydeniz A. İ., Yıldız 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**  
Yıldız R. A., Gökşenli A., Yuksel B., Muhaffel F., Aydeniz A.  
2012 International Conference on Engineering Materials, ICEM 2012, Singapore, 30 - 31 December 2012, vol.651, pp.263-268

## Scientific Refereeing

Acta Metallurgica Sinica, National Scientific Refreed Journal, May 2017

## 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: 21  
Citation (WoS): 22  
Citation (Scopus): 102  
H-Index (WoS): 3  
H-Index (Scopus): 6

## **Scholarships**

Eđitim Bursu, Foundation, 2006 - Continues  
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## **Non Academic Experience**

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