

## **Lect. AHMET SEFA ATALAY**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AAR-7210-2020

Yoksis Researcher ID: 294411

### **Education Information**

Doctorate, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Metallurgical and Materials Engineering, Turkey  
2017 - Continues

Postgraduate, Sakarya University, Institute Of Science, Metallurgical and Materials Engineering, Turkey 2014 - 2016

Undergraduate, Sakarya University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering,  
Turkey 2010 - 2014

### **Research Areas**

Metallurgical and Materials Engineering, Testing and Control of Materials, Mechanical Properties, Nondestructive Testing,  
Material Characterization

### **Academic Titles / Tasks**

Lecturer, Kocaeli University, Uzunçiftlik Nuh Çimento Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2020 -  
Continues

### **Courses**

Materials Technology-2, Associate Degree, 2023 - 2024

Basic Forming Operations at Welding, Associate Degree, 2023 - 2024

Welding Inspection Methods, Associate Degree, 2023 - 2024

Non-Destructive Testing, Associate Degree, 2023 - 2024

Chipless Forming, Associate Degree, 2023 - 2024

Manufacturing Methods, Associate Degree, 2023 - 2024

Basic Manufacturing Operations, Associate Degree, 2023 - 2024

Manufacturing Processes-3, Associate Degree, 2023 - 2024

Materials Technology-1, Associate Degree, 2023 - 2024

Heat Treatment Technologies, Associate Degree, 2023 - 2024

Materials Inspection Methods, Associate Degree, 2020 - 2021

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

- I. **Mechanical effects of Cr and V substitutions in AlFe<sub>2</sub>B<sub>2</sub> by first-principles calculations**  
Atalay A. S., Derin C. B.  
Computational Materials Science, vol.239, 2024 (SCI-Expanded)
- II. **First-principles investigation of optical properties of AlFe(2-x)MxB<sub>2</sub> (x= 0–1), (M= Cr, V) intermetallic compounds**  
Atalay A. S., Derin C. B., Feizi Khanghah M.  
Computational Condensed Matter, vol.32, pp.1-7, 2022 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Computational Investigation of the Effect of Manganese Substitution on the Mechanical Properties of AlCr<sub>2</sub>B<sub>2</sub>**  
Atalay A. S., Derin C. B.  
İTÜ Metalurji ve Malzeme Mühendisliği Dergisi, vol.1, no.1, pp.1-6, 2024 (Peer-Reviewed Journal)
- II. **Investigation of wear behavior of two different types coatings by using cored wire with arc spray technique**  
Atalay A. S.  
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.2, pp.203-209, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **The Effect of Mn Substitution on Mechanical Properties of AlCr<sub>2</sub>B<sub>2</sub>: A Computational Investigation**  
Atalay A. S., Derin C. B.  
3rd International Materials Technologies and Metallurgy Conference (MTM 2023), İstanbul, Turkey, 11 - 13 October 2023, pp.40

## Metrics

Publication: 5