

IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data Form

A. PERSONAL		
Title	Assistant Prof.	
Name	Olcay Türkoğlu	
Birth Place / Year	Akhisar / 1987	
e-Mail / Personal Web Site	olcay.turkoglu@isikun.edu.tr	
Working Field(s)	Mechanical Behavior of Materials	
Foreign Language(s)	English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	2024	Mechanical Engineering	Boğaziçi University
Master of Science	2013	Materials and Manufacturing	İstanbul Technical University
Bachelor of Science	2010	Mechanical Engineering	İstanbul Technical University
Associate			

C. ACADEMIC		
Title	Year	Institution
Assistant Professor	2024 -	Işık University, Mechanical Engineering Dept.
Lecturer	2013-2024	Işık University, Mechanical Engineering Dept.
Research Assistant	2010-2013	Işık University, Mechanical Engineering Dept.

D. PROFESSIONAL EXPERIENCE	
a. Domestic	
b. Abroad	

E. ADMINISTRATIVE EXPERIENCE	
a. At Işık University	
b. At Other Institutions/Companies	

F. INTERESTED SUBJECTS
Materials Science
Mechanical Behavior of Materials
Strain Field Analysis with Digital Image Correlation
Mechanical Tests of Materials
Crystal Elasticity and Plasticity
Electron Backscattering Diffraction
Metallography

G. INSTRUCTED COURSES	
a. At Işık University	b. At Other Institutions
Engineering Drawing (ME120, MECH1120)	
Statics/Solid Mechanics (ME241T, MECH2211, MAKİ2211, ENGR2101)	
Mechanics of Materials (ME345T, MAKİ2244,)	
Measurement and Instrumentation (ME301, MECH3111)	
Mechanical/Mechatronics Engineering Laboratory (MECH3122, MAKİ3122, MECT3122)	
Material Science Laboratory (MECH2520)	

H. NUMBER OF SUPERVISED GRADUATE THESIS	
Master of Science	
Doctorate	

I. PUBLICATIONS						
Type	SCI-Expanded International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	2			2	1	
SCI-Expanded Total Number of Citations	45					
Important Publications						
A. Journal Papers:						
1. Üçel, İ. Buğra, Enver Kapan, Olcay Türkoğlu, C. Can Aydın, "In Situ Investigation of Strain Heterogeneity and Microstructural Shear Bands in Rolled Magnesium AZ31", International Journal of Plasticity, 118: 233–51, 2019. http://dx.doi.org/10.1016/j.ijplas.2019.02.008						
2. Türkoğlu, O., Aydın, C.C. (2024). An exploration of grain-averaged stress measurement using partial unloads in full-field in situ microscopic image correlation. https://dx.doi.org/10.1007/s11340-024-01050-4						
B. Proceedings:						
1. C. Civelek, O. Türkoğlu, T. Mert, (2019)(Turkish) Tam Otomatik Metal İnert Gaz Kaynak Yöntemi İle Alüminyum Alaşımı Yakıt Depolarının İmalatında Kaynak Parametrelerinin Mukavemet Üzerine Etkilerinin İncelenmesi, III. Uluslararası Avrasya Multidisipliner Çalışmalar Kongresi						

2. Türkoğlu, O., Aydiner, C.C. (2023). Enabling Digital Image Correlation with High-Resolution Microscopic Optics via Working Distance Automation. SEM 2022. Conference Proceedings of the Society for Experimental Mechanics Series. Springer, Cham. http://dx.doi.org/10.1007/978-3-031-17471-1_9
3. Turkoglu, O., & Aydiner, C. C. (2025). An in-situ Grain-resolved Study of FCC Nickel Plasticity over Gross Granular Fields using Digital Image Correlation with High Resolution Optical Microscopy. *Advancement of Optical Methods & Digital Image Correlation in Experimental Mechanics*, Vol. 2, 5–12. https://doi.org/10.13052/97887-438-0828-2_2

J. RESEARCH EXPERIENCE

Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor						
As Researcher				1		

K. REFERREING

Type	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers								

L. INTELLECTUAL PROPERTIES

Patents	Utility Models	Industrial Designs	Other

M. PROFFESIONAL ASSOCIATION MEMBERSHIPS

SEM, Society for Experimental Mechanics

TMMOB-MMO

N. OTHER USEFUL INFORMATION (if any)
