

A. PERSONAL		
Name	Olca TÜRKOĞLU	
Birth Year	1987	
e-Mail / Tel	olca.turkoglu@isikun.edu.tr 0 216 528 7132	
Specialization Area	Mechanical Behavior of Materials	
Languages	Turkish, English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	2024	Mechanical Engineering	Boğaziçi University
Master of Science	2013	Materials and Manufacturing	Istanbul Technical University (ITU)
Bachelor of Science	2010	Mechanical Engineering	Istanbul Technical University (ITU)

C. ACADEMIC		
Title	Year	Institution
Assist. Prof.	2024-	Işık University Mechanical Engineering Dept.
Instructor	2013-2024	Işık University Mechanical Engineering Dept.
Research Assistant	2010-2013	Işık University Mechanical Engineering Dept.

D. INSTRUCTED COURSES	
Computer Aided Drawing	
Statics	
Mechanics of Materials	
Measurement and Instrumentation	
Mechanical/Mechatronics Engineering Laboratory	
Materials Science Laboratory	

E. INTERESTED FIELDS	
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	

F. PROGRAMMING SKILLS & SOFTWARE EXPERTISE	
Python, MATLAB, LaTeX	
Crystal Plasticity Tools: DAMASK (Spectral), PRISMS-CP(FE)	
Crystallography and Visualization Tools: OIM Analysis, Dream3D, MTEX, ParaView	
Solid Modelling: SolidWorks	
Structural Analysis (FE): ABAQUS, ANSYS	

G. PUBLICATIONS						
Type	SCI-Exp 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	-		1	1	
Publications						
Articles						
- 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.iplas.2019.02.008 - 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						
Proceedings						
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 - Türkoğlu, O., Aydın, 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						
H. PROFESSIONAL ASSOCIATION MEMBERSHIPS						
SEM, Society for Experimental Mechanics						
TMMOB-MMO Turkish Chamber of Mechanical Engineering						