



6th

MATERIALS SCIENCE & ENGINEERING STUDENT CONFERENCE

**6. MALZEME BİLİMİ VE MÜHENDİSLİĞİ
ÖĞRENCİ KONFERANSI**

Mühendislik Fakültesi Seminer Salonu

15-16 Haziran 2023



ESKİŞEHİR TEKNİK ÜNİVERSİTESİ
ESKİŞEHİR TECHNICAL UNIVERSITY

15.06.2023

Time	Presenter(s)	Title of Presentation	Advisor	Jury
09:30-10:00	OPENING CEREMONY			
1.SESYON				
10:00-10:20	Nesli YÜRÜK - Alper SAKARYA	Up Grading of Low- Purity,Low-Cost Zinc Oxide Raw Material to a High Purity ZnO that Can Be Used In Pharmaceutical and Cosmetic Industries	Prof.Dr.Ender SUVACI	Prof. Dr. Bekir KARASU Assist. Prof. Dr. Umut SAVACI Res. Assist. Levent KÖROĞLU
10:20-10:40	Abdalla Khaled Ahmed Mohamed BAYOUMI	Enhancement of Machinable Glass- Ceramic Materials: Compositional and Heat Treatment Modifications for Improved Strength	Assist. Prof. Dr. EMRAH DÖLEKÇEKİÇ	
10:40-11:00	Yasemin OKCU - Gülden ÇAYLAK	Production of Eco- Friendly Conductive Paints/Inks without Metal Nanoparticles	Assist. Prof. Dr. Yasemin ÇELİK	
11:00-11:20	Seda Yasmin İNAL	Imidazole Assisted Synthesis of Cobalt- Triazolate Frameworks	Prof. Dr. Ünal ŞEN	
11:20-11:30	TEA/COFFEE BREAK			
2.SESYON				
11:30-11:50	Murat Ali BEKTAŞ	Synthesis of High Surface Area Cerium-Based Metal-Organic Frameworks	Prof. Dr. Ünal ŞEN	Assist. Prof. Dr. Emrah DÖLEKÇEKİÇ Lec. Dr. Sinem BAŞKUT Res. Assist. Enes İbrahim DÜDEN
11:50-12:10	Berkay UZUN - Berkay ESEN	MgO-Spinel-ZnO Composites	Prof. Dr. Cemal AKSEL	
12:10-12:30	Sema EĞİMSER	Development of Smooth Matte Protective Glaze	Prof. Dr. Ferhat KARA	
12:30-12:50	Simge EVREN	Alternative Whitening System for Zirconium Silicate	Assist. Prof. Dr. İrfan TÖRE	
12:50-13:50	LUNCH BREAK			
3.SESYON				
13:50-14:10	Name YALAMA	Effects of TiO ₂ and Si Addition on Mechanical Properties of B ₄ C	Lec. Dr. Sinem BAŞKUT	Prof. Dr. Cemal AKSEL Prof. Dr. Ünal ŞEN Res. Assist. Emine ERSEZER
14:10-14:30	Merve KIRIÇ	Improvement of Thermoelectric Properties of Ti ₂ FeNiSb ₂ Double Half Heusler Compound by Doping Partial Zirconium Instead of Titanium	Prof. Dr. Servet TURAN	
14:30-14:50	Yiğit Baran GÜLİSTAN	Processing and Phase Identification of the Images Obtained by SEM	Assoc. Prof. Dr. Erhan AYAS	
14:50:15:10	Mehmetcan KALLEM	Effect of Particle Size on Sintering Behavior of Amorphous Materials	Prof. Dr. Ferhat KARA	
15:10-15:20	TEA/COFFEE BREAK			
4.SESYON				
15:20-15:40	Berlin OK	Development of Environmentally Friendly New Generation Powder Sunscreen Forms with High UV Protection by Using Unique Plate Structured ZnO	Prof. Dr. Ender SUVACI	Assist. Prof. Dr. İrfan TÖRE Assist. Prof. Dr. İsmail Özgür ÖZER Res. Assist. Alican ATAMAN
15:40-16:00	Pelinsu MEYDAN – Seray YILMAZ	Improvement of Thermoelectric Properties of Ti ₂ FeNiSb ₂ Double Half Heusler Compound with Partial Niobium and Vanadium Doping Instead of Titanium	Prof. Dr. Servet TURAN	
16:00-16:20	Ecem ŞENEV	Production and Characterization of SiN/VO _x Thin Films on Flexible Surfaces for Flexible Electronic Applications	Prof. Dr. Ramis Mustafa ÖKSÜZOĞLU	
16:20-16:40	Aleyna İLGEZDİ	Improving the Sinterability and Mechanical Properties of Boron Carbide Ceramics Containing Unwanted Free Carbon with Different Additives, Different Process and Spark Plasma Sintering Conditions	Prof. Dr. Servet TURAN	

16.06.2023				
Time	Presenter(s)	Title of Presentation	Advisor	Jury
1.SESYON				
10:00-10:20	Hevin YILMAZ	Revolutionizing CVD Grown MXene Synthesis: Large Area Flakes Achieved Through Controlled Cooling Rate	Prof. Dr. Servet TURAN	Assoc. Prof. Dr. Ali ÇELİK Assist. Prof. Dr. Gül İpek SELİMOĞLU Res. Assist. Özdem Bayak ÖZKAN
10:20-10:40	Mert ŞAHİN	Anti-Slip Tile Design	Assist. Prof. Dr. İrfan TÖRE	
10:40-11:00	Engin MEMİŞ	Application of SIAION Cutting Tools for Milling	Prof. Dr. Alpagut KARA	
11:00-11:20	İlayda Senem BENLİ	Oxidation Production of Boride and Carbide Medium Entropy Hybrid Composites	Assoc. Prof. Dr. Erhan AYAS	
11:20-11:30	TEA/COFFEE BREAK			
2.SESYON				
11:30-11:50	Hasan Umut DELİBAŞ - Mustafa GENÇ	Architectural Glasses	Prof. Dr. Bekir KARASU	Prof. Dr. Ramis Mustafa ÖKSÜZOĞLU Assist. Prof. Dr. Yasemin ÇELİK Res. Assist. Kübra GÜRCAN
11:50-12:10	Gülce ÇALIŞKAN	Improving the Functional Properties of the Zirconia for Solid Oxide Fuel Cell Application by LSM Network Structure	Prof. Dr. Servet TURAN	
12:10-12:30	Enes Berkay YAZICI	Optical Glass	Prof. Dr. Bekir KARASU	
12:30-12:50	İsmihan TOPALOĞLU - Eray BECERİK	Granule Development for Dry Application on Ceramic Tiles	Prof. Dr. Ferhat KARA	
12:50-13:50	LUNCH BREAK			
3.SESYON				
13:50-14:10	Alperen KÜÇÜK - Elif ONAR	Investigation Of the High- Temperature Oxidation Behavior of the $Al_{14}Co_{20}Cr_{15}Ni_{40}Ti_5Ta_1$ Medium Entropy Superalloy	Assist. Prof. Dr. Gül İpek SELİMOĞLU	Prof. Dr. Servet TURAN Prof. Dr. Abdullah Tuğrul SEYHAN Res. Assist. Ertuğrul İŞLEK
14:10-14:30	Ege Anıl GÜRKAN	Using Basalt Waste as a Black/Brown Pigment in Ceramic Glaze	Prof. Dr. Semra KURAMA	
14:30-14:50	Zeynep Olcay UYSAL	Electrical characteristics of NiCr and NiCr/Si ₃ N ₄ Thin Films	Prof. Dr. Ramis Mustafa ÖKSÜZOĞLU	
14:50-15:00	TEA/COFFEE BREAK			
4.SESYON				
15:00-15:20	Yalçın ÇUBUKÇU	Superalloy Design and Investigation of High- Temperature Oxidation Behavior	Assist. Prof. Dr. Gül İpek SELİMOĞLU	Prof. Dr. Alpagut KARA Assoc. Prof. Dr. Erhan AYAS Res. Assist. Burak DEMİR
15:20-15:40	Rasih Burak BİLGİN - Mehmet Can ARABACI	Production and Characterization of Three-Layered Si3N4 Cutting Tools with TiN, TiC, and ZrO2 Additives Sintered by SPS	Assoc. Prof. Dr.Ali ÇELİK	
15:40-16:00	Mehmet YILDIRIM	Sheet Metal Forming Using FDM Rapid Prototype Tool	Prof. Dr. A. Tuğrul SEYHAN	
16:00-16:10	TEA/COFFE BREAK			
5.SESYON				
16:10-17:10	ALUMNI PANEL PARTICIPANTS Dr. Güney KORÇ (MatSE 2003) Özkan TIRYAKI (MatSE 2009) Yağmur Can GÜNDOĞAN (MatSE 2022) Can KARKA (MatSE 2022) Berk AKÇİL (MatSE 2022)			
17:10-18:00	CERTIFICATE & CLOSING CEREMONY			

