Symposium on Functional Materials Science and Engineering (SFME 2025) PROGRAM

	00 20 00 00	PROGRAM
08:30-09:00		Registration
	09:00-09:15	Opening Ceremony
	09:15-09:20	Prof. Dr. Ömer ARIÖZ Rector, Toros University
	09:20-09:25	Prof. Dr. Adnan MAZMANOĞLU Dean of Engineering Faculty, Toros University
		Session I-Invited Speakers
11	09:30-10:00	Nanoparticle-Engineered Catalysts for Clean Hydrogen Prodcution: Innovations and Future Perspectives Doğan Kaya Department of Physics, Faculty of Sciences and Letters, Çukurova University, Adana, Türkiye
12	10:00-10:30	Advancing Solar Frontiers:Graphene Integrated CTS Thin Film Solar Cells Recep Zan TÜBA-Üstün Başarılı Genç Bilim İnsanı Department of Physics, Faculty of Sciences, Niğde Ömer Halisdemir University, Niğde, Türkiye
S	10:30-10:35	Special thanks to Akyürek Technology and OSF Logistics
		Coffee Break and Poster Session (10:35-11:00)
P1		Bi ₂ Sr ₂ Ca _{1-x} Sb _x Cu _{1.75} Na _{0.25} O _y (x = 0.0, 0.0125, 0.0250, 0.050, 0.075, 0.1) Investigation of Phase Formation of Superconductors Meryem Ebru Kır, M. Ersin Aytekin Department of Computer Engineering, Faculty of Engineering, Tarsus University, Tarsus, Türkiye
P2		Processing and characterization of sustainable flax-jute/PA11 thermoplastic composites Melisa Yeke Telateks Tekstil Ürünleri Sanayi ve Ticaret A.Ş. METYX Composites, Manisa, Türkiye
Р3	10:30-11:00	Luminescence Characterization of SrSiO ₃ : Ce, Li dosimetry pellets synthesized by solid state technique Ahmad Mesto ¹ , Volkan Altunal ¹ , Veysi Gückan ¹ , Bilal Isik ¹ , Ahmet Ekicibil ¹ , Zehra Yegingil ² ¹ Department of Physics, Faculty of Science and Letters, Çukurova University, Adana, Türkiye ² Toros University, Engineering Faculty, Electrical and Electronic Engineering Department, Mersin, Türkiye
P4		Kinetic Analysis of K ₂ SO ₄ : Dy, Na TL phosphors Bilal Isik ¹ , Volkan Altunal ¹ , Veysi Guckan ¹ , Ahmad Mesto ¹ , Adnan Ozdemir ² , Ahmet Ekicibil ¹ , Zehra Yegingil ³ ¹ Department of Physics, Faculty of Sciences and Letters, Çukurova University, Adana, Türkiye ² Department of Optician, Elbistan Vocational High School of Health Service, Kahramanmaraş İstiklal University, Kahramanmaraş, Türkiye ³ Toros University, Engineering Faculty, Electrical and Electronic Engineering Department, Mersin, Türkiye
		Session II-Plenary Speakers
01	11:00-11:15	Chair, Assist. Prof. İbrahim İNAN, Scientific Committee Modeling of Electrical Properties of Bi ₂ Sr ₂ Ca _{1-x} Zn _x Cu _{1.75} Na _{0.25} O _y (x = 0.00, 0.0125, 0.025, 0.050 and 0.075) Superconductors M. Ersin Aytekin Department of Mechatronics Processing, Vocational School of Technical Sciences at Mersin Tarsus Organized Industrial Zone, Tarsus University, Tarsus, Türkiye

















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O2	11:15-11:30	Effects of Noble Metal Alloy Based Magnetic Elements on Nanoparticles and Detailed Investigation Emre Can Tayfun ¹ , Mustafa Akyol ² , Doğan Kaya ^{1,3} , Faruk Karadağ ¹ , Ahmet Ekicibil ¹ Department of Physics, Faculty of Sciences and Letters, Çukurova University, Adana, Türkiye Materials Engineering Department, Faculty of Engineering, Adana Alparslan Turkes Science and Technology University, Adana, Türkiye Department of Advance Materials and Nanotechnology, Institute of Natural and Applied Sciences, Cukurova University, Adana, Türkiye
03	11:30-11:45	Novel Arc-Melted Ni-Si-M (M = Al, Cu, Co, Fe, Zr) Ternary Alloys: Effects of Additive Elements on Morphology, Mechanical Strength, and Magnetic Performance Sinan Diken¹, Celal Kursun², Musa Gogebakan² ¹Department of Physics, Faculty of Science, Kilis 7 Aralık University, Kilis, Türkiye ² Department of Physics, Faculty of Art and Sciences, K. Sütçü İmam University, Kahramanmaras, Türkiye
		Lunch
		(12:00-13:00) Session III-Plenary Speakers
		Chair, Assist Prof. Cevher Ak, Scientific Committee
O4	13:00-13:15	Emulsion-Based Strategies for Water-Resistant Biobased Films: A Comparative Evaluation of Contact Angle and Swelling Ratio Sevgin Diblan¹, Yasin Özay², Zafer Erbay³ ¹Department of Food Processing, Vocational School of Technical Sciences at Mersin Tarsus Organized Industrial Zone, Tarsus University, Tarsus, Türkiye ¹Department of Environmental Protection Technologies, Vocational School of Technical Sciences at Mersin Tarsus Organized Industrial Zone, Tarsus University, Tarsus, Türkiye ¹Department of Food Engineering, Faculty of Engineering, Adana Alparslan Turkes Science and Technology University, Adana, Türkiye
05	13:15-13:30	Impact of Growth Environment on the Controlled Synthesis of 2D Mo ₂ C by CVD Zehra Zisan Guler ¹ , Nevzat Duman ^{1,2} Elif Okay ¹ , Goknur Buke ^{1,3} ¹ Micro and Nanotechnology, Graduate School of Engineering and Science, TOBB University of Economics and Technology, Ankara, Turkiye ² Togg, Powertrain & High Voltage Electronics, Ankara, Turkiye ³ A.J. Drexel Nanomaterials Institute, Drexel University, Philadelphia, Pennsylvania, United States
O6	13:30-13:45	Investigating Gas Uptake and Electric Field Response of ZIF-71 with Monte Carlo and ab-initio Simulations Omer Şahin Arısoy, Yeliz Gürdal Department of Bioengineering, Institute of Graduate School, Adana Alparslan Türkeş Science and Technology University, Adana, Türkiye Department of Bioengineering, Adana Alparslan Türkeş Science and Technology University, Adana, Türkiye
О7	13:45-14:00	The New Double Perovskite La ₂ TiNiO ₆ As Electrocatalyst for Efficient Hydrogen Evolution Reaction Evrim Baran Aydın ¹ , Sevgi Ateş ¹ , Gökmen Sığırcık ² , Birgül Yazıcı ² 1Department of Chemistry, Faculty of Science, Kilis 7 Aralık University, Kilis, Türkiye ² Department of Chemistry, Faculty of Science and Letters, Çukurova University, Adana, Türkiye
		Coffee Break and Poster Session (14:00-14:30)
08	14:30-14:45	Electronic and transport properties of monolayer ZrS ₂ Berrin Özdemir ¹ , Nihal T. Yıldız ² , H. Cengiz Çekil ¹ , M. Akif Sabaner ² , Ünal Dömekeli ² , Fikret Işık ² , Sedat Şengül ² , Metin Özdemir ¹ ¹ Department of Physics, Faculty of Arts and Sciences, Çukurova University, Adana, Türkiye ² Department of Physics, Faculty of Sciences, Trakya University, Edirne, Türkiye

















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О9	14:45-15:00	Fabrication and characterization of scaffolds with heterogeneous architecture as potential in vitro 3D model for cancer research Didem Demir Karakuş ¹ , Murat İdikut ² , Sibel Dağlt ³ , Mehmet Tarakçıoğlu ⁴ 1Department of Chemistry and Chemical Process Technologies, Tarsus University, Mersin, Türkiye 2Department of Bioengineering, Adana Alparslan Turkes Science and Technology University, Adana, Türkiye 3Department of Medical Microbiology, Hatay Mustafa Kemal University, Antakya, Türkiye 4Department of Medical Biochemistry, Faculty of Medicine, Gaziantep University, Gaziantep, Türkiye			
O10	15:00-15:15	Enhancing The Mechanical and Barrier Properties of PLA Films: Biocomposite Development Using Tomato Peel Extract Aysima Yediler, Özlem Kızılırmak Esmer Department of Food Engineering, Faculty of Engineering, Ege University, İzmir, Türkiye			
011	15:15-15:30	Yeşil Enerji Dönüşümü Sağlayan İleri Teknoloji Malzemelerin Üretiminde Endüstri 5.0 Uygulamalarının Rolü İbrahim İnan Department of Industrial Engineering, Faculty of Engineering, Toros University, Mersin, Türkiye			
Coffee Break and Poster Session					
(15:30-15:45) Session IV-Plenary Speakers Chair, Assoc. Prof. Evrim Ersin Kangal, Scientific Committee					
O12	15:45-16:00	Mechanical and Thermal Analysis of Carbon Fiber Reinforced Discs under Thermal Loading Hüseyin Fırat Kayıran ^{1,2} ¹ Mersin Provincial Coordinator, Department of Agriculture and Rural Development Support (ARDSI), Mersin, Türkiye ² Department of Industrial Engineering, Faculty of Engineering, Toros University, Mersin, Türkiye			
013	16:00-16:15	Seri üretim teknolojilerinde enerji ve kaynak verimliliği açısından proses hatalarının minimize edilmesi: Preform kalıplarında aşınma ve malzeme performansının iyileştirilmesine yönelik yenilikçi yaklaşımlar Berk Şahin¹, Gamze Arslan¹, Mehmet Yüksel¹, Gökhan Parsak¹, Tuğçe Demirdelen² ¹Petka Mold Industry, Adana, Turkey ²Department of Electrical and Electronic Engineering, Faculty of Engineering, Adana Alparslan Türkeş Science and Technology University, Adana, Türkiye			
014	16:15-16:30	Enhancing CTS Thin Film Characteristics via Graphene Interlayer: Influence of Sulfurization Temperature Sevda Erkan ¹ , Yavuz Atasoy ² , M. Ali Olğar ^{1,3} , Recep Zan ^{1,3} Department of Physics, Niğde Ömer Halisdemir University, Nanotechnology Application and Research Center, Niğde, Türkiye Niğde Ömer Halisdemir University, Niğde Zübeyde Hanım Vocational School of Health Services, Niğde, Türkiye, Department of Physics, Niğde Ömer Halisdemir University, Niğde, Türkiye			
015	16:30-16:45	Catalytic and Photocatalytic Properties of NiFe2O4 Nanomaterials Hasan Işık, İlknur Baldan Işık, Doğan Kaya, Faruk Karadağ, Ahmet Ekicibil Department of Physics, Faculty of Sciences and Letters, Çukurova University, Adana, Türkiye			
O16	16:45-17:00	The Electronic Transport Properties of Monolayer MoS ₂ M. Derya Alyörük ^{1,2} , H. Cengiz Çekil ² , Berrin Özdemir ³ , Zeki Yarar ⁴ , Metin Özdemir ³ ¹ Department of Physics, Aksaray University, 68100 Aksaray, Turkey ² Department of Medical Services and Techniques, Opticianry Program, Health Services Vocational School, Aksaray University, Aksaray, Turkey ³ Department of Physics, Faculty of Sciences and Letters, Çukurova University, Adana, Turkey ⁴ Department of Physics, Faculty of Arts and Sciences, Mersin University, Mersin, Turkey			
		Closing Ceremony Ali Kemal HAVARE Chair of Scientific Organization Committee, Toros University			















