TACT 2025 Student Oral Presentation Competition

No.	Topic	Presenter	Total
A-O-9	Silicon/recycled carbon composites derived from CO ₂ capture as anode material for	Kishore Babu	
	lithium-ion batteries	Sompalli	
A-O-172	Enhancing Vanadium Redox Flow Battery Performance with Molybdenum-Doped	Zih-Jhong Huang	
A-U-112	Nickel Cobalt Oxide Modified Graphite Felt Electrodes		
A-O-381	Hydrothermally Synthesized Spinel CoCr ₂ O ₄ for Photodegradation of Organic Dyes	YuHao Chen	Bronze
	Understanding the Sensing Mechanism of a ZnMoO₄ integrated on GO		
B-O-176	Nanocomposite Towards electrochemical detection of Nitrofurantoin in	Amulya Garadi	
	environmental and biological matrices		
B-O-228	Tunable Nanostructured Stainless-Steel Coatings for High-Performance Oil/Water	Fanhua Kong	Bronze
	Separation Membranes	rannua Kong	DIONZE
C-O-268	Super hydrophobic ZnO/PVDF-HFP Nanofiber film for Triboelectric Nanogenerator	Jun Jie Zhang	
C-O-200	Applications	Juli de Zhang	
C-O-355	Diamond synthesis from a solid carbon source by chemical transport using narrow	Rurii Higuchi	Bronze
0-0-333	gap microwave plasma		
D-O-68	Impact Fatigue and Mechanical Properties of TiSiN Multilayer Coatings under	Tsung-Yuan Li	Silver
D-O-00	Different Bias Voltages with Compositional Design		
D-O-273	Integration of a blue energy harvesting module with seawater electrolysis for	Chieh-Jui Li	
D-O-273	sustainable hydrogen production		
D-O-366	Influence of Second Phases on MAO Coating Behavior and Corrosion Resistance of	Po Han Wu	
D-O-300	ZE51/ZE53 Mg Alloys: Strategies for Discharge Uniformity		
E-O-185	A Portable Sensor for the Simultaneous Detection of Catechol and Vanillin in Food	k Naveenkumar	
	and Water Samples Using Ag ₂ Se@f-CB Composite.		
E-O-258	Electrodeposition of Cu/Polyaniline Composite Electrode for Non-Enzymatic	Runze Huang	Silver
	Electrochemical Glucose Sensors		Olivei

F-O-47	Impact of Al, Ti and Nb Composition on the Thermal Stability & Oxidation Resistance of AlTiNbSiCrN High-Entropy Nitride Coatings	Manh Nguyen Duc	
F-O-386	Evaluation of Mechanical & Electrocatalytic Properties of AlCoCrFeNiTiN High	Gao Zheng Dai	
	Entropy Alloy Thin Films		
G-O-123	Nanoscale electrochemistry of WSe2-coated NbS2 metal-semiconductor	Septia Kholimatussadiah	Gold
	heterostructures		
G-O-291	Investigation of Surface Reconstruction Mechanisms Across Semiconductors,	Cheng Hsi Yeh	
	Metals, and Metal Oxides: a review		

Bronze x 3, Silver x 2, Gold x 1