



The UNIVERSITY of OKLAHOMA
SUSTAINABILITY FORUM 2024



January 26, 2024, 6:00 – 8:00 pm

Poster Session on Hydrogen & Sustainability Research in Oklahoma

Welcome by Dimitrios Papavassiliou

Director of Sustainable Chemical, Biological & Materials Engineering

Poster #	Title	Presenter
1	Influence of the temperature reaction in methane pyrolysis with molten metals	Eymi Layza Escobar
2	Investigating faujasite zeolites by using isooctane conversion	Nabihan Rahman
3	Methane Pyrolysis for CO ₂ Free Hydrogen Production using Biomass	Abeykoon Bandara
4	Selective dehydration of poly (vinyl alcohol-co-ethylene) using Pd/MOO ₃ as a Catalyst	Samira Abdolbaghi
5	The Promotional Effect of Water on the Hydrogenation of Cyclohexene over Nickel Boride	Thomas Salas
6	Understanding the effects of acid electrolyte anions on IrO ₂ for oxygen evolution reaction	Keishana Navodye
7	Catalyst Design for Kinetic Modeling of High-Yield CNT Synthesis	Caleb Bavlnka
8	Mechanistic studies of CO ₂ -ethylene coupling on MFI Zeolite based materials	Zaheer Masood
9	Hydrogenolysis	Laura Sarmiento
10	Simulation of CO ₂ plume in Simulation of CCS in Osage County, Oklahoma	Benmadi Milad
11	Competition Between Surfactants and Antibiotics for Adsorption on Microplastics	Diana Barrios
12	Carbon-Free H ₂ Energy Production & Storage (CHEPS)	RANGE Team

This event is proudly co-sponsored by
“NSF-Growing Convergence Research: Transition to green
energy in gas-producing regions” (RANGE)



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