

Oral Presentation

Symposium 6. Materials for Super Ultra Low Energy and Emission Vehicle

February 22 (WED)		
Time	Program	
	[Session 6-1] Materials for Super Ultra Low Energy and Emission Vehicle	
	Chair: Kwan Young Lee (Korea Univ.), Hyunjoo Lee (KAIST)	
10:40-11:20	[SO6-1] Urea/SCR Technology for removing NOx from Diesel Engine (Keynote presentation)	In-Sik Nam (POSTECH)
11:20-11:40	[SO6-2] Improved Thermal Stability of Microporous TiO ₂ for NH ₃ SCR Using La ³⁺ and Ce ³⁺ ions	Sung June Cho (Chonnam national university)
11:40-12:10	[SO6-3] Sb promoted V ₂ O ₅ /(Ti, Ce)O ₂ catalyst system for SCR DeNO _x in automotive exhaust treatment at low temperature under sulfur (invited speaker)	Heon Phil Ha (KIST)
Time	Program	
	[Session 6-2] Materials for Super Ultra Low Energy and Emission Vehicle	
	Chair: Sung June Cho (Chonnam National Univ.), Jungkyu Choi (Korea Univ)	
13:30-14:00	[SO6-4] Rationally Designing High-Performance Overlay Catalysts for Automotive Exhaust Purification (invited speaker)	Masato Machida (Kumamoto University)
14:00-14:20	[SO6-5] Comprehensive Mechanistic Study of CO Oxidation Activity on Rare- Earth and Transition Metal Doped CeO ₂	Jeong Woo Han (University of Seoul)
14:20-14:50	[SO6-6] Acid-base properties of Al ₂ O ₃ : effects of morphology, crystalline phase, and additives (invited speaker)	Ja Hun Kwak (UNIST)
14:50-15:10	[SO6-7] Promoting Effect of Hydrothermal Aging on the Structure and Catalytic Activity of Pd/CeO ₂	Hyunjoo Lee (KAIST)
15:10-15:30	[SO6-8] How Pt-Ceria interacts under oxidative environment	Do Heui Kim (Seoul National University)
Time	Program	
	[Session 6-3] Materials for Super Ultra Low Energy and Emission Vehicle	
	Chair: Do Heui Kim (Seoul National Univ.), Jeong Woo Han (Univ. of Seoul)	
15:50-16:30	[SO6-9] Low temperature emission abatement to enable advanced engines (Keynote presentation)	Yong Wang (Pacific Northwest National Laboratory)
16:30-16:50	[SO6-10] On the reduction of hydrocarbons from vehicle cold-start emissions	Jungkyu Choi (Korea University)
16:50-17:20	[SO6-11] Solving Future CO ₂ Challenges with Ensured Emission Compliance (invited speaker)	Chang Hwan Kim (Hyundai Motor Company)