

Poster Number	Abstract Number	Presenter First Name	Presenter Last Name	Abstract Title
90	703928	Nurul Farhana Binti	Abd Ghaffar	Determining the Atomistic Structures of Oxy-Carbides and Understanding Their Stability for Oxidative Reactions.
117	703894	Vishal	Agarwal	Novel Algorithms for Efficient Exploration of Potential Energy Surfaces
47	704903	Milad	Ahmadi Khoshooei	Hydrogen Production from Water on Molybdenum Carbide: A Mechanistic Study
50	704524	Sanghyun	Ahn	Synthesis of MFI Zeolites with Small Crystallite Sizes to Generate Stable Product Selectivity from Alkene Oligomerization
51	704675	Divakar Reddy	Aireddy	Aqueous-Based Granulation Method Towards Clean Energy Applications
64	705801	Vishwas Reddy	Akavaram	The Importance of Full Reduction and the Choice of Precursor on the Site Distribution of Rh on TiO ₂ and Activity for CO Oxidation
83	704644	Maira	Amjad	Electrochemical Stability of Iridium Metal - Effect of Surface Structure
57	704417	Daniel	Amkreutz	Opportunities and Challenges of Thin-Film Technology for Thermocatalytic Applications
40	703984	Rachid	Amrousse	Ammonia Production from the Catalytic Decomposition of Hydroxylammonium Nitrate As Green Energetic Source for Clean Space
56	703951	Wo Bin	Bae	Improved Catalytic NO Oxidation over Pt Supported on Sulfuric Acid Treated TiO ₂
55	703704	Victor Gabriel	Baldovino Medrano	Design and Assessment of Pt-Fe/SiO ₂ Catalysts for Stoichiometric Methane Combustion: Does Fe Really Contribute?
19	705122	Victor Gabriel	Baldovino Medrano	Catalytic Functionalities of Ni-Based Catalysts for CO ₂ hydrogenation By Hydrogen Transfer from Isopropanol
70	703658	Tanmayi	Bathena	Investigating Dynamic Redox Properties of Bismuth Molybdates in Selective Propylene Oxidation
52	705669	Chris	Bauer	Evaluation of Fumed and Precipitated Silica Extrudates: Balancing Surface Area, Crush Strength, and Pore Volume
26	704528	Tina	Bergh	Unraveling the Silver-Catalyzed Methanol to Formaldehyde Reaction: Understanding the Sub-Reactions, Kinetics and Restructuring
104	704887	Zachariah	Berkson	Molecular-Level Insights into Adsorption and Reaction Sites in Heterogeneous Catalysts from Solid-State NMR
84	704396	Janek	Betting	Detection of Hydroxylamine Intermediate Opens a New Perspective on Ammonia Selectivity in Metal-Catalyzed Nitrate Reduction

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152	719539	Isaac	Boateng	Influence of Organocations on the Kinetics and Mechanism of Electrocatalytic Hydrogen Evolution in Alkaline Media
54	705884	William	Broomhead	Catalytic Consequences of Catalyst Pellet Architecture on the Direct Production of Dimethoxymethane from Methanol.
145	719357	Brandon	Burnside	Robust, Thermally Stable and Versatile Single Atom Catalysts Based on Earth Abundant Materials
69	703320	Atharva	Burte	Coverage Effects for Dynamic Modulation of Formic Acid Oxidation
87	704599	Joseph	Buttacci	Aftertreatment System Design for H ₂ -ICE Using Kinetic Modeling: Promises and Challenges
86	704574	Daniel Camilo	Cano Blanco	Site-Specific Monomeric Fe Sites Catalyze the N ₂ O Decomposition Reaction
138	705392	Gianni	Caravaggio	Aqueous Phase Reforming (APR) of Glycerol over Platinum Supported on Al ₂ O ₃ Catalyst
151	719533	Lee	Casalena	Seeing Catalysis Dynamics Live at the Atomic Scale: New <i>in Situ</i> Transmission Electron Microscopy Workflows Under Reactive Gas Environments
43	704302	Shih-Yuan	Chen	Mechanistic Understanding of Iron-Aluminum Composites in Methane Cracking for Turquoise Hydrogen and Fibrous Carbon Production
96	704431	Linxiao	Chen	Leveraging Epitaxial Metal-Support Interface for Structure-Function Relationship Studies in Thermal Catalysis
113	704496	Tej	Choksi	An Accelerated Approach Towards Predicting Coverage-Dependent Surface Free Energies on Transition Metal Surfaces
97	704462	Jakob Munkholt	Christensen	New Methods for Determining Ad-/Desorption Energies
14	705572	Riccardo	Colombo	Catalytic Roles of Reactive Hydrogen in CO ₂ activation Via Reverse Water Gas Shift on Rh and Pt Surfaces
2	705373	Michael	Cordon	Selective Conversion of 2,3-Butanediol to Aviation Fuel and Chemical Precursors Via Dioxolane Intermediates
73	705548	Pia	Dally	Unveiling the Dynamics of Cu/ZIF-8 Catalysts during CO ₂ Hydrogenation Using Forced Dynamic (Operando) Conditions
137	705162	Audrey	Dannar	Exploring the Growth Kinetics of Carbon Nanotubes Using Transient Pressure Pulsing
156	719598	Olivia	De Luca	Breaking the C-X Bond: A Kinetic Analysis of the Room Temperature Dehalogenation of Halobenzenes Catalyzed By Rh/Al ₂ O ₃
110	703972	Julia	de Souza	How Local Order Leads to Shape-Selectivity in Disordered Materials: FAU-FER Interzeolite Transformation Intermediates and Its Exceptional Catalytic Properties

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44	704419	Andreline	de Souza Bernardes	Development of Nickel Catalysts with Core-Shell Structure for Ethanol Steam Reforming
88	703881	Willow	Dew	Alloying and Segregation Effects in Palladium-Alloy Catalysts
153	719562	Shaikat Chandra	Dey	Scalable Transformation of Pyrolysis Oil into Biographite Anode for Lithium-Ion Batteries
92	704045	Kunlun	Ding	Identification of the Roles of Carbonaceous Species in Pd-Catalyzed Selective Hydrogenation
76	704057	Johari	Dramiga	Thermodynamic Insights of CO ₂ Reduction in Solid Oxide Electrolysis Cells with Sulfur Containing Feed Flows
108	700699	Al-Zahraa Fatima	El Cheikh	Adsorption of Azo Dyes Using ZnO/SiO ₂ hybrid Aerogels and Xerogels
130	703975	Selin	Ernam	Ternary Hydride Catalysts for Low Temperature Ammonia Synthesis
100	704700	Joseph	Esposito	Isotopic Studies of Reaction Pathways within Propylene Epoxidation over Promoted Silver Catalysts
10	705743	Janaina	F. Gomes	CuO-ZnO Oxides Derived from Lamellar Structures As Catalysts for the Hydrogenation of CO ₂ to Methanol
17	705783	Saiyed Tasnim Md	Fahim	Integrated CO ₂ Capture and Utilization over Cu-K ₂ CO ₃ /MgO Dual Functional Catalyst
89	703891	Shuxuan	Feng	Systematic Studies of Catalyst Structure-Property Relationships in CO ₂ Hydrogenation to Methanol
134	704426	Leidy Patricia	Figueroa Quintero	Synthesis of ZIF-8 on Brass Monoliths Prepared By 3D Selective Laser Melting for CO ₂ Conversion
5	704179	Ari	Fischer	Harnessing Ultrasound Irradiation for Selective Radical-Driven Aldehyde Oxidation to Carboxylic Acids
112	704330	Bibesh	Gauli	Structure-Property Evolution of Metal-Organic Frameworks (MOFs)-Derived Catalysts
128	701405	Ljubiša	Gavrilovic	Ammonia Cracking for Hydrogen Production – Effect of Promoters on Non-Noble Metal Catalysts
91	704011	Jiankai	Ge	Automatic Formulation and Exact Solutions to the Master Equation for Multisite Microkinetic Models in Catalysis
48	702331	Benjamin	Glasser	Improving Quality and Increasing Throughput in Catalyst Manufacturing Unit Operations
16	705766	Anshuman	Goswami	Computational Investigation into Supported and Inverted Cu-ZrO Catalysts for Selective CO ₂ Hydrogenation to Methanol
146	719444	Nitish	Govindarajan	Understanding pH Effects and Intrinsic Reaction Kinetics in Electrocatalysis: The Reference Potential Scale Matters
22	703905	Pio	Gramazio	One-Step CO ₂ Hydrogenation to Hydrocarbons on K Promoted Fe Catalyst on an Alginate-Based Carbon Support.
28	703235	ChangJin	Han	Mechanochemical Synthesis of Multicomponent Bismuth-Based Molybdate Catalysts for Propylene Ammoxidation to Produce Acrylonitrile

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158	703657	Daniel	Haynes	Exploring Catalyst Compositions for Microwave-Assisted Methane Dehydroaromatization
31	704184	Alexander J.	Hill	Unifying Dehydrogenation and Coupling of Isoalkane Feedstocks to SAF-Range Precursors in a Single Reactor.
157	719455	Md Monir	Hossain	Effect of Plasma Power on Intermediate Species and Reaction Temperature in the Presence and Absence of Catalysts for Dry Reforming of Methane Application
78	704447	Yukun	Hu	Enhancing Electrocatalytic Conversion of CO ₂ Via Bicarbonate Reduction to Formate Via Indium-Bismuth Alloys
79	704476	Yukun	Hu	The Microenvironment Frontier for Electrochemical CO ₂ Conversion
105	704759	Benjamin	Jackson	Modeling Solvent Effects on Alcohol Elimination within Zeolite Pores
58	704438	Hunter	Jacobs	Effect of Binder Selection in Cu-Zn-Y/Beta Extruded Catalysts for Ethanol Upgrading to Olefins
15	705588	Chae	Jeong-Potter	Material and Process Optimization of Reactive Carbon Capture to Methanol Using Cu-ZnO-Al ₂ O ₃ Dual Function Materials
42	704299	Lee	Jihoon	Multifunctional Graphene-Nickel Single-Atom Catalyst for AEM Water Electrolysis and UV/Chlorine Treatment
143	719666	Ali	Kamali	Two-Dimensional (2D) Mxene Supported Ruthenium Catalysts for Plastic Waste Hydrogenolysis: Mass Transport Versus Confinement in Interlayer Spacing
20	703689	Freek	Karaçoban	Pathway of CO ₂ Conversion over a Ru-K ₂ CO ₃ /CNF Dual Functional Material for Direct Air Capture
154	719582	Mahmudul	Khan	Elucidating Molybdenum Trioxide (MoO ₃) Deactivation during the Ambient Pressure Hydrogenation of Lignin-Derived MODEL Compounds
107	705852	Konstantin	Khivantsev	Activation of Carbon Monoxide CO in H-Mor Zeolite Via Protonation
116	703720	Youbin	Kim	Variable Reaction Coordinate Transition State Theory for Computing Rate Constants for Barrierless Desorption
125	704602	Gabrielle A.	Kliegle	Synthesis–Structure–Function Relationships of Oxide-Supported Ruthenium Catalysts for Ammonia Reforming
63	705725	Amy	Knorpp	Synthesis Strategies for Porous High-Entropy Oxides and Their Activity in Thermocatalytic CO ₂ Hydrogenation
67	704586	Kenneth	Kusima	Hybrid Kinetic Modeling for Dynamic Catalytic Systems
29	703578	Piotr	Kustrowski	Catalytic Activity of MoO _x @SiO ₂ Yolk-Shell Structures in Propane Dehydrogenation and Subsequent Propylene Metathesis
59	704782	Soonhyoung	Kwon	Dual-Templated Syntheses, Characterization, and Application of MFI/Ton-Type Zeolite Intergrowth
12	705505	Clara	Larghi	Understanding Sulfur-Induced Deactivation in Ru/Al ₂ O ₃ Catalysts for CO ₂ Hydrogenation Via Combined <i>in-Situ</i> and <i>Ex-Situ</i> Method

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136	705647	Jeong Hwan	Lee	Continuous Injection Isothermal Titration Calorimetry for the Determination of Adsorption Kinetics at Solid-Liquid Interfaces
155	719583	Dahee	Lee	Synthesis and Characterization of Pt Single-Atom and Clusters on Transition Metal Carbide Catalyst Supports
18	705831	Hongfei	Lin	Engineering the Reaction Pathways and Product Selectivity in CO ₂ Hydrogenation to C ₂ + Hydrocarbons and Oxygenates
75	703836	Harrison	Lippie	Generalizing Reactive Surfaces of Ir Complex Metal Oxide Catalysts for the Oxygen Evolution Reaction in Acidic Electrolytes
37	704395	Gabriel	Liscia Catuzo	Ethane Dehydrogenation with CO ₂ Using LDH-Derived Mixed Oxides of V, Mn, and Ga
9	704977	Bin	Liu	Carbon Dioxide to Ethylene Conversions on Iron-Based Catalysts
123	705830	Yuanyue	Liu	Constant Potential Molecular Dynamics for Electrocatalytic Interface
144	719656	Zhanyuan	Liu	Thermal Stability Study of Rh Single Atom Catalyst on Titanate Perovskites and TiO ₂ thin Films, Al ₂ O ₃ and MgAl ₂ O ₄
139	704578	Maria Karla	Lopez González	Modification of Metal–Organic Framework: ZIF-8 By Ligand Exchange for the Adsorption and Removal of Mercury
36	704376	Patrick	Lott	Active and Selective Nature of Ce ₂ N and CuCe ₂ N for the Oxidative Dehydrogenation of Propane with Carbon Dioxide
68	705712	Debtanu	Maiti	Enhanced CO ₂ Hydrogenation to Methane: The Role of Feed Modulation and Electric Field
141	719662	Manju	Maman	Atomically Precise Cu ₁₄ H ₁ Nanoclusters for Electrocatalytic CO ₂ Reduction
142	719665	Tricia	Marchese	Micro-Scale Reactor Systems for Investigating Biomass/Biooil Upgrading
149	719467	Tristan	Maxson	Comparing Constructions of Supported Nanoparticles via Machine Learning Interatomic Potentials
53	704844	Rosa Virginia	Melinda	The Growth of Titanium-doped Ceria Thin Films by Pulsed Laser Deposition for CO ₂ Splitting with H ₂ O
1	703306	Emanuele	Moioli	A New Method for the Simulation of Catalyst Deactivation in Fluidized Bed Reactors
98	704650	Austin	Morales	Elucidating Rate Determining Steps in the Presence of Isothermal Multiplicity during Catalytic Oxidation Reactions
101	704735	Benjamin	Moskowitz	Identifying Methanol Adsorbate Geometries on (101)-Faceted Anatase Titania Nanocrystals
65	702685	Javier	Narciso	Nenu-5 a New Route to Prepare Mo ₂ C with High Specific Surface Area for Use in Catalysis
102	704756	Nicholas	Nelson	Kinetics and Thermodynamics of CO Adsorption Onto Mononuclear Pd Ions Supported on Ceria
93	704064	Quy P.	Nguyen	Exploring the Role of Oxygen Vacancies in Promoting Electro-Oxidations on NiOOH for Chemical Manufacturing and Water Treatment

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82	704635	Huy	Nguyen	Effects of Mixed Solvents on CO ₂ Electrocatalytic Reduction
109	703126	Isao	Ogino	Tailoring Morphology and Surface Properties of Microporous Carbon Catalysts Derived from Metal-Organic Frameworks
127	705016	Masaru	Ogura	Two-Step Transient Catalytic System for NO _x -to-Ammonia
77	704405	Miha	Okorn	Visible Light As a Leverage to Accelerate the Reverse Water Gas Shift Reaction over Cu-Ce _x (Ti _{1-x})O ₂ Catalysts
3	705657	Samuel	Olusegun	Understanding Glycine Oxidation Mechanism: Pathway Towards Nutrient Recovery from Waste Sludge
135	705542	Emrah	Ozensoy	Na-Promoted Bimetallic Hydroxide Nanoparticles for Aerobic C-H Activation: Catalyst Design Principles and Insights into Reaction Mechanism
8	704499	Robert	Pace	One Pot Synthesis of Fully Formulated Sustainable Aviation Fuel from Brown Grease Via Multifunctional Catalysts
60	705192	Ismail	Paykar	Harnessing Drying Dynamics to Control Nanoparticle Size in Silica Supported Pt Catalysts
122	705790	Gustavo	Perez Lemus	Geometrical Restraints for Enhanced Sampling Simulations in Heterogeneous Catalysis
32	704208	John	Pham	Conversion of Ethanol to 1,3-Butadiene over Supported Cobalt Catalyst with Induction Heating
132	703650	Truc	Phung	Economically Competitive Production of Oleo-Furan Sulfonate Detergents from Furfural and Fatty Alcohols
23	703768	Felipe	Polo-Garzon	Dynamic Reconstruction Behavior of Complex Oxides in Dry Reforming of Methane: In Situ Generation of Stable Nicu Alloy Active Sites
45	704582	Alvaro	Posada-Borbon	A First-Principles Based Microkinetic Investigation of the Dehydrogenation of C ₇ H ₁₄ to C ₇ H ₈ on Pt(111)
115	703540	Supareak	Praserthdam	The Ratings Concept As a Combined First-Principles and Microkinetic Modeling Tool for an on-Line Optimization of Integrated Carbon Capture and Conversion
21	703869	Piyasan	Praserthdam	Novel Thermal Catalytic CO ₂ Conversion without External Hydrogen: A Tandem Process for Methane, Bio-Lubricant, and Hydrogen Production Via Methyl Palmitate Ketonization
147	719451	Venkata Rohit	Punyapu	First Principles Insights into Effect of Charge Condensation on Water Gas Shift Reaction Mechanism
140	719659	Mengxiong	Qiao	Selective Hydrogenation of Furfural on Ptsn Alloy Surfaces
39	703908	Abdul	Rafey	Catalytic Pyrolysis of Plastic Waste for the Synthesis of Hydrogen and Nanocarbons
62	705639	John	Regalbutto	Controlling Metal Nanoparticle Size on Carbon Supports with Surface Tension
111	704014	Matthew	Robinson	Tuning Zeolite Catalysts Using Organic Additives: Molecular Modelling Studies
106	705027	Luis Jorge	Rodriguez Castillo	SBA-15 Nano Catalysts Evaluated in the Hdo of Phenol As an Oxygen Compound Derived from Bio-Oils

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99	704652	Luke T.	Roling	Understanding Structure Sensitivity and Surface Coverage in the Electrocatalytic Hydrogenation of <i>Cis,Cis</i> -Muconic Acid on Palladium
131	704327	Alicia	San Martin Rueda	Co/Fe Ratio Effect on the Stability of LaSrCoFeO ₃ Perovskites for Ammonia-Fueled Solid Oxide Fuel Cells
94	704096	Sakshi	Satyanand	CO-Induced Reconstruction of Alumina-Supported Transition Metal Clusters
119	704123	Kaustubh	Sawant	Graph Based Grand Canonical Basin Hopping: A Case Study for Global Optimization for Amorphous Oxides and Metal Clusters
35	704804	Alba	Scotto d'Apollonia	Single Nickel Site Catalyst on Mesoporous Silica for Light Olefin Oligomerization
41	704110	Parasuraman	Selvam	Defect-Induced Nanocrystalline Colored Titania - Inspiring Next Generation Photocatalyst: Application in Cellulose Reforming for Hydrogen Production
118	703937	Agnieszka	Seremak	Na-Y Zeolite Water Interaction: A Multimodal Analysis Using Gcmc, Machine Learning Potentials and <i>Operando</i> X-Ray Diffraction
61	705606	Nataliya	Shcherban	Synthesis of Supported Metal Nanoparticles Using a Surface Support As a Reducing Agent: Characterization and Catalytic Performance in HMF Electrooxidation to Fdca
46	704666	Ludmila P. C.	Silva	Niobia Supported Cu-Zn Catalysts for Sour Water Gas Shift Reaction
74	703084	Shreya	Singh	Investigating the Effect of a Back-Gate on the Filling of Trap Density of States in Ultrathin TiO ₂ Films
71	705307	Gunnar	Sly	Exploring Adsorbate-Induced Dynamic Structuring and Transport Properties of Supported Liquid Metal Catalysts Using DFT & Reaxl
150	719526	Michael	Smith	Lithium Silicates for Isothermal Sorption-Enhanced Steam Methane Reforming (SE-SMR)
121	705225	Noah	South	Modeling Interfacial Hydrogen Atom Transfer Kinetics Using a Nonadiabatic Proton-Coupled Electron Transfer Framework
126	704775	Vashanti	Storr	Non-Thermal Plasma Ammonia Synthesis over Porous Silica
7	704301	Junho	Suh	Synergistic Effect of Metal and Acid Sites in Chemical Recycling of Plastic Wastes
114	705506	Ingeborg-Helene	Svenum	Exploring the Use of Global Optimization and Universal Potentials – CO Oxidation over Pd-Based Alloys
120	704197	Akshat	Tanksale	Multi-Scale Modelling of MOF-Derived Catalysts
129	703260	Cyril	Thomas	Promoting Ru Electron Density By Basic Hydroxyapatite Supports for H ₂ Storage As NH ₃ Under Mild Conditions
30	704139	Ryan	Thompson	High-Yield Ethanol to Acetone Reaction Using Induction Heating
33	704294	Joseph	Thompson	DFT and Microkinetic Study of the Mechanism of Propene Metathesis on MoO _x /SiO ₂ and MoO _x /(AlO _y -SiO ₂) Catalysts

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124	702690	Xiongwei	Tian	Effect of Electric Potential on Electrochemical CO ₂ Reduction at Ag(111)-H ₂ O Interface
6	704234	Priyanka	Tirumareddy	Biocrude Upgradation Via Hydrodeoxygenation Using Ni-Mo Doped Hydrochar Catalysts Derived from Sawdust
72	701199	Axel	tosello Gardini	A Bulk Phase Transformation Drives Ammonia Synthesis on Barium Hydride
34	704332	Quoc Khanh	Tran	Iso-Butanol Production from Methanol/Ethanol Mixtures Via the Guerbet Reaction Using Hydrotalcite Ni/Cu-Al Catalysts
95	704177	Sai	Varanasi	Towards Understanding Entropic Effects in Multimetallic Catalyst
133	704400	David	Villalgordo Hernández	Modified ZIF-67 for CO ₂ Capture and Valorization through Cycloaddition: FT-IR 'Operando' Studies
81	704594	Alexander	von Rueden	Atomic-Level Insights on Electrocatalytic Decarboxylation of Acetic Acid over Anatase-Supported Pt Clusters
80	704488	Xianqin	Wang	A New Member to Electrocatalyst Family
85	704515	Huamin	Wang	Enhancing Activity and Stability of Pd-on-TiO ₂ Single-Atom Catalyst for Low-Temperature CO Oxidation through <i>in Situ</i> Local Environment Tailoring
66	705795	Xueqin	Wang	Enhancing Hydrothermal Stability of Alumina-Based Carrier and Its Characterization
11	705833	Wei	Wang	Facilitating CO ₂ Hydrogenation to Olefins on Inverse Fe-based Catalysts by Optimizing Active Site Proximity and CO Intermediate Transport
27	703077	Yizhi	Xiang	Light Alkane Conversion through Ammonia Assisted Reforming and Dehydrogenation
13	705517	Haocheng	Xiong	Sustainable CO ₂ Electrolysis to Concentrated Formate in the CEM Based Electrolyzer.
38	703791	Xiaokun	Yang	Copper-Based Catalysts for DME Steam Reforming: Investigating Reaction Mechanisms for Hydrogen Production
25	704482	Rachel A.	Yang	Deciphering Transition-Metal B-Site Reactivity, Selectivity, and Stability for Oxidative C ₁ Hydrocarbon Upgrading on Perovskite Oxides
148	719460	Jiaqi	Yu	Rational Design of Interface-Controlled Materials: Bridging Structure-Property Relationships in Heterogeneous Catalysis
24	703965	Yulong	Zhang	High Performance M (Ga, Ce, Mn, Mg, La)-Promoted Cu-ZnO-ZrO Catalysts for CO/CO ₂ Hydrogenation to CH ₃ OH
49	704002	An	Zhang	Highly Dispersed Bimetallic Catalysts for Semi Hydrogenation of Acetylene with Galvanic Displacement
4	704107	Yi	Zhang	Evaluation of the Potential of Producing SAF and Renewable Diesel Fractions from Upgrading Bio-Oils Using Dispersed Catalyst
103	704825	Ying	Zheng	Stable CeO _x Nanoglue-Confined Copper Species for CO Oxidation and Water-Gas Shift Reaction