

# Wednesday Poster Session

Poster Number	Abstract Number	Presenter First Name	Presenter Last Name	Abstract Title
114	707294	Bella	-	DBD Plasma Treatment on Ni/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> for Catalytic Methane Decomposition: Effects of Pure Argon and Pure Hydrogen
29	706192	Nicolas	Abatzoglou	Autothermal Dry Reforming of Methane at Kg-Lab Scale Using Ni-Ugso Catalyst Pellets at Elevated Pressures: A Parametric Study
117	704761	Nurul Farhana Binti	Abd Ghaffar	Step-Wise Activation of CH <sub>4</sub> and CO <sub>2</sub> over Partially Oxidized Surface of MoO <sub>x</sub> C <sub>y</sub>
4	705229	Ashraf	Abedin	Microwave-Assisted Catalytic Gasification of Various Biomass with Mixed Plastic Wastes for Clean H <sub>2</sub> Production
124	704316	Vishal	Agarwal	Role of Carbon Species in Dry Reforming and Pyrolysis of Methane: Insights from Molten in-Sn and in-Ni Alloys
108	708953	Khalid	Alhooshani	Synthesis of a Nickel Based Nanostructured Hierarchical ZSM-5 Zeolite for Enhanced Dry Reforming of Methane to Syngas
68	705385	Kirk	Badger	Automatically Generated Exhaust Gas Conversion Mechanism on Pt(111) Explores Chemistry between C and N Containing Adsorbates
17	704186	Taha	Baghban-Ronaghi	Cu-ZnO Bimetallic Catalyst for Industrial Relevant Production of Alcohols in the Alkaline CO <sub>2</sub> Electrolyzer
139	719240	Ankit	Bansal	Choosing the Right Computational Model for Electrochemical Interfaces: Insights from MoS <sub>2</sub>
125	705464	Greg	Barber	Quantitative TPR for Spillover and Surface Vacancy Determination on Reducible Oxide Supported Metal Catalysts
94	704683	Bereket	Bekele	Synthetic Methods to Control the Siting of Trivalent Heteroatoms in MFI Zeolite Channels for Selective Toluene Methylation to p-Xylol
48	705529	Alessandra	Beretta	Highly Active Ru/CeO <sub>2</sub> Catalysts Prepared By Conventional and a Novel Mechanochemistry Methods for Ammonia Cracking
88	705609	Samiha	Bhat	Kinetic Consequences of Surface Segregation Processes in Catalysis by Metal Alloys
14	704481	Luis F.	Bordini	Novel Sputtered ITO/TiO <sub>2</sub> Catalyst for Highly Efficient Reverse Water-Gas Shift Reaction
143	719160	Bradley	Brennan	Dimensional Energy: Converting CO <sub>2</sub> into Chemicals Via Reverse Water Gas Shift and Fischer-Tropsch Catalysts
16	701222	Siobhan	Brown	CO <sub>2</sub> Hydrogenation over Cu on Early Transition Metal Carbides and Nitrides on Alumina Supports
87	705597	Guangming	Cai	Thermochemical Interconnectivities of Redox, Brønsted, and Lewis Sites on Metal Oxide Surfaces and Their Kinetic Consequences in C-H Scission and C-O Formation of Alkanols
132	719611	Haiting	Cai	Mechanistic Insights into Crotyl Alcohol Isomerization over Cu/Catalysts
67	705215	Gianni	Caravaggio	Influence of Zirconia Loading on Pd-Pt/SBA-15 Catalysts for Methane Oxidation
106	703181	Pedro	Castaño	Metal Nanoparticle Encapsulation Strategies in MOF for Enhanced and Stabilized CO <sub>2</sub> Hydrogenation to Methanol

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86	705592	Samir	Castilla Acevedo	Role of Water in the Dynamics of Active Sites in Pt-MoO <sub>x</sub> Cataly during Liquid-Phase Reactions
61	700824	Luis	Cedeño-Caero	V-Fe Based Photocatalysts for Oxidative Desulfurization of Dibenzothiophenes
89	704388	Nourrdine	Chaouati	Unveiling the Catalytic Potential of Extra-Large Pores Zeo-1 Zeo
59	701147	Shutang	Chen	Synthesis of High Efficiency and More Durable Pt-Ni Nanocataly
39	701161	Shane	Chen	Identifying and Solving the Catalytic Deactivation Problem to Improve Process Performance
5	703119	Hsiang-Sheng	Chen	Opportunities and Challenges in Utilization of Unrefined Metha Synthesized from Waste Methane
42	704450	Xiuting	Chen	Insights into Solvation Thermodynamics Under Different Pores i Solvent Environments in Zeolite Catalysts
64	705038	Haiying	Chen	Effects of Pt:Pd Ratios on the Activity and Stability of Pt:Pd/γ-Al Catalysts for Lean Methane Oxidation
147	718861	Hong Je	Cho	Nanoporous Metal Oxide-Carbon Hybrid Materials Synthesized Biomass Pyrolysis for Carbon Dioxide Capture
118	704455	Tej	Choksi	The Influence of Strong Metal Support Interaction Phenomena i the Rates and Selectivity of Formic Acid Decomposition
70	705600	Amish	Chovatiya	Impact of Water on Ammonia Oxidation Performance of Coinag Metals and Their Comparison to Platinum
65	704607	Nicola	Da Roit	Catalysts Based on Pt Clusters and Nanoparticles on CeO <sub>2</sub> : Influe of the Noble Metal Size and Support Morphology in the Oxidati CO
6	701558	Ajay	Dalai	Pretreatment and Catalyst Effects on Biocrude Production Via Hydrothermal Liquefaction of Canadian Lignocellulosic Residue: Renewable Transportation Fuels
83	705389	Audrey	Dannar	Sintering Resistance in Dilute-Alloy Catalysts Is Described By Decreased Surface Mobility Due to Metal Hybridization
123	704101	Tyler	Davide	A Unique Magnetic FeCo Bimetallic Catalyst for Carbon Dioxide Conversion to Value Added Chemicals
152	720760	Prabin	Dhakal	Catalysts for Nylon-6 Depolymerization to ε-Caprolactam: Understanding the Structure-Performance Relationship.
58	705768	Juan	Donoso	Towards the Complete Mineralization of PFOA with a Pilot-Scale Light, Boron-Nitride—Based Recirculating Reactor Unit
91	705765	Mohamed	Eisa Omar	Impact of Ceria Support Morphology on the Electronic Properties and Catalytic Behavior of Rh Single Atoms during CO Oxidation
1	704409	Florence	Epron	Novel Green Method for the Preparation of Supported Sub-10 nm Non-Noble Metal (Cu, Sn and Ga) Nanoparticles
81	705296	Kayla	Eudy	Impact of Pd Single Atoms during CO Oxidation over Ceria-Supported Ni and Pt Single Atom Catalysts: Are Synergistic Effects Present?

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15	704433	Leidy Patricia	Figueroa Quintero	Tailoring Catalyst for CO <sub>2</sub> Hydrogenation: Synthesis and Characterization of NH <sub>2</sub> -MIL-125 Frameworks
11	704322	Nico	Fischer	Advancing Molybdenum Carbide Catalysts for Sustainable Syngas Production in the Reverse Water-Gas Shift
127	719599	Ari	Fischer	The Relation between Energy Transfer and Chemical Production during Ultrasound- Induced Cavitation.
49	705544	Federico Sascha	Franchi	Electrified Ammonia Cracking Via Indirect Joule Heating of Thermally Conductive Packed Beds
130	719608	Musbau	Gbadamosi	Development of Pt-Based Catalysts for the Dehydrogenation of Liquid Organic Hydrogen Carriers
40	705467	Iklim	Gokce	Investigating the Kinetics of Ethane Hydrogenolysis over Supported Liquid Metal Catalysts
3	704687	Alexa	Gonzalez-Rosario	In – Flow Catalytic Production of Levoglucosenone from Levoglucosan over Propylsulfonic Acid Functionalized SBA-15 Using $\gamma$ – Valerolactone
50	705835	Kasun	Gunasooriya	Finding the Needle in the Haystack: Material Discovery and Design for Oxygen Electrocatalysis
56	705651	Nicholas	Harmon	Modeling Electron-Hole Recombination in Promising Photocatalytic Magnetic Materials
36	704736	Yang	He	Enhancing the Carbon and Energy Efficiency in SAF Production: Converting Alkenes to Aromatics and Hydrogen
102	704638	Maliheh	Heravi	Conversion of Low-Density Polyethylene and Waste Plastic Bottles to Fuel Grade Hydrocarbons Using Metal-Supported KIT-6 Catalyst
136	719339	Melissa	Hess	Development of Testing Methodology and Characterization Methods for Chromium Getters for Solid Oxide Fuel Cells
80	705292	Sifat	Hossain	Resolving Coverage Dependent CO and H <sub>2</sub> Co-Adsorption on Pt(111)
148	719604	Md Monir	Hossain	Catalytic SnSe <sub>2</sub> @Mxene Composite Separators for Superior Polysulfide Regulation in Lithium–Sulfur Batteries
92	704242	Phong	Huynh	Transition Metal-Triazine Electrocatalysts for Carbon Dioxide Transformation and Hydrogen Storage
51	705268	Hicham	Idriss	Enhancement of Ce <sup>3+</sup> in Reduced CeO <sub>2</sub> Via U-Ce Charge Transfer Implications on Hydrogen Production By the Thermochemical Water Splitting Reaction.
79	705224	Maria Rikaela	Ilagan	Kinetic Analysis Reveals Active Sites in Heterogeneous Metathesis Catalysts: Insights from the <i>Cis-Trans</i> Isomerization of 2-Butene
32	704605	Rabia	Ilica	<i>In-Situ</i> XAS Investigation of Co-Based Model Catalysts for FTS
119	704717	Benjamin	Jackson	Modeling Dynamic Activation of Single Atom Catalysts: Conversion of Formic Acid on Rh/Fe <sub>3</sub> O <sub>4</sub> (001)
126	719594	Nishamini Ruwanthika	Jayasekara	Catalytic Activity of Iron-Doped Molybdenum Oxide on Cyclohexane Oxidation
95	705812	Hyeonjung	Jung	Interplay of Local Structure and Spin State on the ORR and OER Performance of M-N-C Catalysts
54	704949	Rachit	Khare	Mechanism of Electrochemical C=O Hydrogenation and Electroreductive C-C Coupling on Cu Cathodes

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26	705295	Sheima	Khatib	Mo-Modified Zeolites for Methane Aromatization: A Study on M Speciation, Distribution, and Control
105	703542	Konstantin	Khivantsev	Achieving Controllable Distribution of M Cations (Pd, Pt, Ni, Cr, As $[M-OH]^{+1}/1Al$ or $M^{2+}/2Al$ in a Zeolite Gives Mechanistic Insights for Adsorptive, Catalytic Reactions
10	704289	Do Yeong	Kim	Zeolites and Its Active Cations: Direct Air Capture of CO <sub>2</sub>
21	705759	Amy	Knorpp	Thermocatalytic Hydrogenation CO <sub>2</sub> to Methanol over Medium High-Entropy Oxides
25	705386	Jan	Kopyscinski	Zeolites-Based Dual Function Materials (DFMs) for CO <sub>2</sub> Capture in-Situ Methanation: Effect of Zeolite Framework
31	705314	Bjarne	Kreitz	Microkinetic Modeling of the Fischer-Tropsch Synthesis over Co Pushing Boundaries through Automated Mechanism Generation
63	704911	Shivam	Kumar	Cu <sub>2</sub> O-Pd Photocatalysts for Carbon-Carbon Coupling Reactions in Ambient Conditions
72	705730	Rajeev	Kumar	Restructuring of Au-Pd Nanoparticles in the Presence of Adsorb Insights into Catalysis and Selectivity
115	706514	Kaushik	Kundu	Machine Learning Driven Catalyst Optimization for Biomass to H Rich Syngas with Experimental Validation
112	707979	Croix	Laconsay	Molecular Catalysts Design with Massively Parallel Physics-Based Computational Workflow
37	705324	Ho Yi	Lam	Support Effects in Butadiene Hydrogenation over Cu and PtCu Dilute-Limit Alloys
75	705822	Aldo	Lanza	The Application of Spaci-MS on Cucha SCR Monolith Catalysts
74	705913	Kaitlyn	Lawrence	Identifying and Quantifying Carbon in Municipal Solid Waste As Implications for Ash's Performance As a Heterogeneous Catalysts
100	704750	Hyunju	Lee	Surface Brønsted Acidity Characterization of Phosphotungstic A
43	705659	Jeong Hwan	Lee	Calorimetric Study of Acid-Base Interactions in Solvated Zeolite Voids
110	708382	Ji Won	Lee	Essential Insights into Electronic and Crystal Structure Modulation Co-Catalysts By Iridium for Enhanced Fischer-Tropsch Synthesis
33	705740	Yu	Lei	Iron Silicalite-1 for Oxidative Dehydrogenation of Ethane
137	719214	Junrui	Li	Copper Based Nitride Nanoparticles for Efficient Electrochemical Carbon Dioxide Reduction Under Low Overpotential
111	708063	Zhiqin	Liang	The Effect of Buffer Electrolyte on Proton-Coupled Electron Transfer Kinetics in Electrochemical Hydrogenation Reactions
77	705678	Fudong	Liu	Advancing Pt Catalysts for the Selective Catalytic Reduction of Nitrogen Oxides with Hydrogen
101	704598	Maria Karla	Lopez González	A Simple Ligand Exchange Strategy to Functionalize ZIF-8 to Improve Mercury Adsorption from Water
146	712003	Xiang	Lyu	Enhancing Durability and Activity Toward Oxygen Evolution Reaction Using Single-Site Re-Doped Nifex Catalysts at Amperic Level

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27	705561	Matteo	Maestri	Surface Carbon Formation and Its Impact on Methane Dry Reforming Kinetics on Rh-Based Catalysts By Operando Raman Spectroscopy
20	704423	Sinqobile Vuyisile Lusanda	Mahlaba	Probing the Effects of Potassium on the Structural Properties and Reactivity of Iron-Based CO <sub>2</sub> Hydrogenation Catalysts
24	704060	Shannon	Mahurin	Molten Salt Upcycling of CO <sub>2</sub> to Diverse Carbon Architectures for Energy Storage Applications
8	703912	Florian	Mai	Development and Enhancement of Iron-Based Catalysts to Boost the Conversion of CO <sub>2</sub> to Liquid Hydrocarbons
129	719601	Damian Camilo	Martinez Martinez	Ragchem: Unlocking Chemical Knowledge
78	705174	Ankit	Mathanker	Effect of Ions on the Aqueous-Phase Adsorption of Organics on
23	704901	Neha	Mehra	First-Principles Aided Understanding of Oxidative Degradation of Amines Supported on Silica during CO <sub>2</sub> Capture
98	705405	Hiyab	Mekonnen	Isomerization of Epoxides By Tris(Pentafluorophenyl)Borane (B) Investigation of Solvent Effects and Induction Period
38	703506	Jesús	Meléndez Gil	Understanding the Effects of Organic Coatings on 4-Nitrostyrene Hydrogenation Selectivity over Pt Catalysts
148	719604	Amirhossein	Mirtaleb	Catalytic SnSe <sub>2</sub> @Mxene Composite Separators for Superior Polysulfide Regulation in Lithium–Sulfur Batteries
84	705406	Hansel	Montalvo-Castro	Electronic and Geometric Features Controlling the Reactivity of C <sub>1</sub> –C <sub>3</sub> Alkanes on Mg-Vanadate Catalysts—a DFT+U Study
53	704529	Medhat	Nemitallah	Novel Ni-Co/Ca <sub>12</sub> Al <sub>14</sub> O <sub>33</sub> Bimetallic Catalyst for Hydrogen Production Via Sorption-Enhanced Steam Methane Reforming Process
104	705806	Mehdi	Niknam	Mg-MOF-74 As a Promising Precursor for Synthesizing Highly Active and Porous MgO Catalyst Towards Knoevenagel Reaction
76	705496	Bo	Ning	Homogeneously Distributed Heterostructure Energizes and Replenishes Oxygen Species for Boosting Toluene Degradation in Pharmaceutical Industry Park
57	705686	Kaustav	Niyogi	Hierarchical Analysis of Transport Limitations in Gas-Diffusion Electrode Based CO <sub>2</sub> Electrorreduction
52	701481	Travis	Novak	Ni Atomically Dispersed in CeO <sub>2</sub> Aerogels for Unprecedented Selectivity in the Water-Gas Shift Reaction
82	705387	Christopher R.	O'Connor	Taming Complexity in Catalysis Using Transient Methods
134	719643	Gbolagade	Olajide	Can in Situ TEM Identify Dynamic Active Sites?
138	719223	Prajeet	Oza	Machine Learning Assisted Design of Metal-Nitrogen-Carbon Dual Atom Catalysts for the Oxygen Reduction Reaction
69	705526	Emrah	Ozensoy	Origins of the Photocatalytic NO <sub>x</sub> Oxidation and Storage Selectivity of Mixed Metal Oxide Photocatalysts: Prevalence of Electron-Mediated Routes, Surface Area, and Basicity

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7	702725	Suraj	P	Hydrodeoxygenation of Lignocellulosic Model Compound Using Nickel Phosphide Catalyst Supported on Mesoporous Geopolymer
62	703033	Hyeong Kyu	Park	First-Principles Study of Hybrid Structure Containing Pt Clusters inside CNTs: Application As ORR Catalysts
128	719600	Seyeon	Park	Dynamic Behavior of Oxide Overlayer on Supported Metal Catalysts
133	719614	Noh-Hyun	Park	Comparison Study on the NH <sub>3</sub> Cracking Catalysts Depend on the Manufacturing Methods for Commercialization
41	704182	Snehal	Patil	Mesoporous Organosilica As Catalyst Support for Aqueous Phase Hydrogenation of Phenol: The Effect of Aromatic Content and Amine Loading of the Support
30	704875	Truc	Phung	Support Effects in Fischer-Tropsch Synthesis
13	704331	Mattia	Piacentini	Direct CO <sub>2</sub> Hydrogenation to <i>E-Crude</i> over a Promoted Fe-Based Catalyst
47	705438	Veronica	Piazza	Experimental and CFD Study of CH <sub>4</sub> Pyrolysis over Fe-Al <sub>2</sub> O <sub>3</sub> Catalyst: The Challenge of C Build-up for the Kinetic and the Reactor Studies
151	720761	Veronica	Piazza	Iron Catalysts for Methane Pyrolysis: Understanding the Effects of Carbon Build-up on Structure and Activity (Poster)
34	704430	Caio Henrique	Pinheiro	Mechanism in Ethanol Upgrading to 1-Butanol over MgO Catalyst: Insights from Synchrotron Irradiation-Based Nanospectroscopy
45	705280	Yi	Qiu	O <sub>2</sub> -Cofeed Demonstrates the Potential of Surface H-Scavenging to Boost Ammonia Decomposition on Ru-Based Catalysts
66	704885	Md Masudur	Rahman	Effect of CO on Alcohol Oxidation over PGM-Based Commercial Oxidation Catalysts for Control of Emissions from Lean-Burn Engines
18	704202	Satya Sireesha	Rameswarapu	Direct CO <sub>2</sub> Hydrogenation to C <sub>2+</sub> carboxylic Acids Via Heterogeneous Thermo-Catalysis in Liquid Phase
35	704703	Letícia	Rasteiro	Exploiting Mo-V Catalysts in Non-Oxidative and Oxidative (CO <sub>2</sub> -O <sub>2</sub> -Assisted) Propane Dehydrogenation
121	704909	Jayalatha	Robinson	Synthesis of a Magnetic Fe-Cu-Zn Trimetallic Catalyst for CO <sub>2</sub> Hydrogenation to Value-Added Chemicals
85	705469	Pranav	Roy	<i>In-Situ</i> Computational Design of Ni-Supported Metal Nitride Interfaces for Mild Temperature Ammonia Synthesis
55	705441	Keishana Navodye	S. a.	Oxide Supported Single-Atom Catalysts for Oxygen Electrocatalysis
73	704567	Christian	Sandoval Pauker	Mechanistic Insights into PFOA Degradation on Covalent Organic Framework Photo-Catalysts
103	703827	Joel	Schmidt	Automation Tools As an Enabler for Zeolite Discovery and Optimization
116	704293	Parasuraman	Selvam	<i>Immobilization of Endoxylanase Onto Functionalized SBA-15 for Xylooligosaccharides Production</i>
12	704326	Shailza	Sharma	Alkali Activated Carbons from Melamine-Resorcinol-Formaldehyde Resin: Activation Mechanism

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22	704711	Honghong	Shi	Toward Understanding the Mechanism of Selective Hydrogenat of CO <sub>2</sub> on Rh-Based Catalysts
90	704894	Eric	Slack	Sterically Encumbered [(3,3'-dimethyl-2,2'-bipyridine)Ir(Cl)COE <sub>2</sub> Catalyst for Aromatic and Heteroaromatic Borylation
141	719301	Rahul	Somni	Copper-Doping and Surface Activation in Atomically Precise Au <sub>4</sub> Nanorods for Carbon Dioxide Reduction
46	705384	Letícia	Sosa	Highly Efficient Low Metal Content Ni/CeO <sub>2</sub> Catalysts Prepared Bymagnetron Sputtering Deposition for Ethanol Steam Reformi
19	704276	Sagar	Sourav	Advancing CO <sub>2</sub> Methanation Catalysts
149	703946	Matthias	Stehle	Accelerated Catalyst and Process R&D for Conversion of Bio-Ba: Ethanol to Green Chemical Intermediates and Products
9	704134	Sarah	Stofik	Utilization of Waste Biomass and Sewage Sludge for CO <sub>2</sub> Captur
60	702883	Brian M.	Tackett	Conductive Polymer-Coated Hydrophobic Membrane with Electrocatalyst As Robust Gas Diffusion Electrode for Long-Terrn Operation
142	719309	Aybala	Topcu	Engineering the Nature of Rh Catalyst for Integrated CO <sub>2</sub> Captur and Utilization Via Dry Reforming of Methane: Effect of CeO <sub>x</sub> an FeO <sub>x</sub> Promoters on HAP
144	719180	Bolton	Tran	Predicting Acid Pka at Catalyst-Solution Interfaces Using O-H Vibrational Frequency
120	704859	Svetlana	Tungatarova	Conversion of Bio-Ethanol into Olefins and Other Products for tl Production of Sustainable Aviation Fuel
44	705533	Mohd	Ussama	Mechanistic Approaches to Solvent Design for Acid-Catalyzed Biorenewable Chemical Processes
122	703377	Lisiane	Veiga Mattos	One Step Dimethyl Ether Synthesis from CO <sub>2</sub> Hydrogenation over Hybrid Cu-ZnO-Al <sub>2</sub> O <sub>3</sub> / Desilicated ZSM-5 Catalysts
109	708529	Luiz	Vieira	SiO <sub>2</sub> -Coated Cu-Based Catalysts for Efficient CH <sub>3</sub> oh Production f CO <sub>2</sub>
99	704406	David	Villalgordo Hernández	Designing Strategies for the Modification of ZIF-8 for Its Optimization As an Adsorbent
96	701733	Kun	Wang	Toward Understanding of Oxygen Depletion Effects on Chemical Looping Propane Oxidative Dehydrogenation Using Strontium Ferrites
76	705496	Bin	Wang	Homogeneously Distributed Heterostructure Energizes and Replenishes Oxygen Species for Boosting Toluene Degradation ( Pharmaceutical Industry Park
76	705496	Dong	Wang	Homogeneously Distributed Heterostructure Energizes and Replenishes Oxygen Species for Boosting Toluene Degradation ( Pharmaceutical Industry Park
93	705792	Zichen	Wang	Ambient Pretreatment Effect on Low Temperature CO Oxidation over Ni Doped Co <sub>3</sub> O <sub>4</sub> Nanocatalysts
154	720762	Bernard	Whajah	Catalytic Depolymerization of Polyethylene By Induction Heatin Continuous Flow Reactor System

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135	719646	Yiqing	WU	CO <sub>2</sub> Direct Conversion to Methanol on Novel Membrane Reactor
97	704881	Yuting	Xu	Microkinetic Modelling for Electrochemical C-N Coupling By Metal-Organic Materials
145	719052	Jung-Il	Yang	Enhancing Dual Reforming Via Electric Field-Assisted Nanocomposite Catalysts
71	705729	Kailong	Ye	Highly Efficient Ag Single-Atom Catalyst for Selective Catalytic Oxidation of NH <sub>3</sub>
28	705621	Serra	Yesilata	Enhancing Surface Activity through in-Situ Exsolution of Co-Fe Nanoparticles on Co-Doped (La,Sr)FeO <sub>3</sub> Perovskite for Electrocatalytic Oxidative Coupling of Methane (OCM)
153	720759	Iris	Yu	Sugars and Polysaccharides As Renewable Feedstocks: The Use of Microwaves and Catalytic Mechanisms for Oxygenates
107	709877	Muhammad	Zeeshan	Unraveling Solvent Effects on n-Butane Cracking and Dehydrogenation in H-MFI Zeolites: A Hybrid QM/MM Approach
2	704225	Xiaoqiao	Zhang	Regulating Lattice Oxygen Property of TiO <sub>2</sub> Redox Catalyst for Enhanced Oxidative Dehydrogenation of Ethane
140	719245	Weiying	Zheng	Dynamic Electrification Steers CO <sub>2</sub> Hydrogenation Selectivity Via Transient Surface Intermediates
131	719610	Hongkui	Zheng	Direct Visualization of Metal-Support Interactions during CO <sub>2</sub> Hydrogenation Via in Situ Gas-Cell TEM
113	707126	Lingxi	Zhou	Machine Learning-Assisted Design of Integrated Single-Atom Electrodes for Enhanced Water Oxidation
150	720758	Yanlin	Zhu	Unlocking Superior Ethylamine Electro-Oxidation and Nitrile-like Intermediates Poisoning Resistance on Pt Enabled By Electronic Geometric Modulation