NEWSLETTER

January 2026

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Letter from the President

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Dear Members of the North American Catalysis Society,

As we begin a new year, I would like to extend my warmest greetings to each of you and to thank you for your continued engagement with the North American Catalysis Society (NACS). Our community remains vibrant, innovative, and impactful, and it is a privilege to serve as your President during this exciting time for catalysis research and practice.

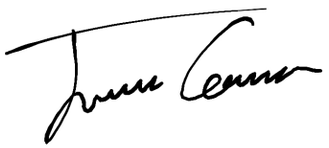
The past year highlighted once again the central role that catalysis plays in addressing global challenges—from sustainable energy and chemical manufacturing to environmental protection and emerging technologies. The scientific creativity and dedication demonstrated by our members across academia, industry, and national laboratories continue to advance our field and strengthen its relevance to society at large. NACS is proud to serve as a platform that brings these diverse perspectives together.

Looking ahead, the coming year offers many opportunities for connection and collaboration. Our re-launching of the NACS newsletter will emphasize important events, news, and information for our society. We remain committed to supporting early-career researchers, promoting diversity and inclusion within our community, and enhancing engagement between fundamental research and industrial application.

I also want to acknowledge the tremendous efforts of our board members, committee members, and officers. Their dedication is essential to the success of NACS, and I am deeply grateful for the time and energy they contribute. If you are interested in becoming more involved in Society activities, I encourage you to reach out—your ideas and participation are always welcome.

As we start this new year, I invite you to stay engaged with NACS, share your work, attend our events, and help shape the future of catalysis in North America and beyond. Together, we can continue to strengthen our community and expand the impact of our science.

I wish you a productive, healthy, and inspiring year ahead.



Javier Guzman
President, North American Catalysis Society

David West is the recipient of the 2026 F. G. Ciapetta Lectureship in Catalysis

I am pleased to announce that David West of SABIC is the recipient of the 2026 F. G. Ciapetta Lectureship in Catalysis. The award is administered by the North American Catalysis Society and sponsored by the W. R. Grace & Co. It is to be awarded biennially in even-numbered years. The award consists of a plaque and an honorarium of $5,000. The recipient may be invited to lecture at some of the local catalysis clubs during the two-year period covered by this award.

David is a Corporate Fellow at SABIC Technology and Innovation since 2012. Before joining SABIC, he worked at Dow for 31 years. While at SABIC he has focused mostly on the development of advanced technology for hydrocarbon pyrolysis, and catalysis and reactor technology for oxidative coupling of methane (OCM). Over the last decade, he pioneered multiple breakthrough projects for conversion of methane to ethylene (autothermal oxidative coupling of methane, a scalable reactor for combustion pyrolysis of methane and conversion of complex hydrocarbons to olefins). Under his leadership, the organization developed five new technologies and products that were graduated to the Strategic Business Units: thermoplastic composites, dielectric film, mixed plastic waste pyrolysis, hydrocracking of butane to ethylene/propene, and controlled release fertilizer. The first three are commercial; the third is complete and ready for deployment, the last is still in development. His pioneering contributions lie at the intersection of the disciplines of catalysis and reaction engineering. He is co-inventor on 68 granted patents including more than 50 in the area of OCM. He is a fellow of the AIChE and member of the U.S. National Academy of Engineering.

Congratulations!

Javier Guzman
President, North American Catalysis Society

Read More: https://nacatsoc.org/

Michele Sarazen receives the 2025 ACS Early Career Award

At the Fall 2025 ACS meeting in Washington, D.C., Professor Michele Sarazen of Princeton University was recognized as the 2025 recipient of the ACS Early Career Award in Catalysis. This award acknowledges the creativity, impact, and service in the early stages of the recipient's independent career in the field of catalysis.

As exemplified by her presentation at ACS titled "(poly)alkene reactions in zeolites: moving forward in the face of microscopic reversibility", Prof. Sarazen's contributions tackle both fundamental and applied challenges in catalysis science and active site engineering for diverse catalytic processes. Beyond research excellence, this award celebrates her commitment to building and strengthening the network of catalysis researchers, ranging from students to faculty collaborators to industry partners, based on her years of service to the catalysis community.

Read More: https://nacatsoc.org/

Awards Presented by the North American Catalysis Society

The North American Catalysis Society (NACS) sponsors six prestigious awards and lectureships to recognize the accomplishments of catalysis scientists, technologists, and engineers and to promote the advancement of catalysis science and technology in North America and worldwide. See below for specific information about each award.

Three of these awards include plenary lectures at NACS biennial meetings (Eugene J. Houdry Award in Applied Catalysis, Paul H. Emmett Award in Fundamental Catalysis, and Michel Boudart Award for the Advancement of Catalysis, the latter jointly presented with the European Federation of Catalysis Societies and NACS). The F. G. Ciapetta and Robert Burwell Lectureships in Catalysis involve lectures at local club/society meetings and the presentation of the awards at the NACS meeting banquet. The NACS Award for Distinguished Service in the Advancement of Catalysis is the most recent recognition instituted by the Society. Each of these awards is presented at a NACS meeting. Nomination deadlines are listed on the NACS website; each award has a separate deadline.

Canvassing and Nomination Processes

NACS encourages all nominations for these awards. Nominators and nominees need not be NACS members. The President of NACS instructs the Vice President of NACS to form a canvassing committee for each cycle of each award to ensure a full slate of outstanding candidates. This committee for each award consists of recognized experts within the catalysis community at-large, and the committee membership is varied to ensure representation of a broad spectrum of the community and to include people from underrepresented groups. The committee identifies worthy candidates, and, together with the Vice President, seeks nominators for each candidate but provides no specific guidance about the preparation of nomination packages beyond that provided on the NACS website. The Vice President also instructs the Secretary of NACS to be in contact with representatives of each of the local NACS clubs/societies to request that they canvass for nominations within their local sections. All nomination cycles and deadlines for nominations are announced in the quarterly NACS newsletter and posted on the NACS website. The deadlines are strictly followed.

Award Recipient Nomination Process

The jury that selects each NACS award recipient consists of scientists, engineers, and technologists recognized as experts and representing industry, academia, and national laboratories. The selection jury is appointed by the NACS President, who seeks guidance in selecting its members from the Vice President and from senior members of the catalysis community. The identities of the jury members are kept in the strictest confidence and known only to the President. The members of each jury must have no affiliation with any of the nominees, and all jurors are specifically asked to disclose any conflicts of interest and to disqualify themselves without prejudice when a conflict exists. The members of the jury are not known to each other. Their communications with regard to nominations are with the NACS President only and are required to be kept strictly confidential.

The NACS President provides the jury with the nomination packages for all candidates within two weeks of the nomination deadline; in the intervening time, potential jury members are asked about their willingness to serve. The NACS President provides guidance to jury members about how to present their rankings of nominees. The members of the jury rank the candidates and provide specific details for their selections for their top three candidates. In some cases, jury members may be asked to again rank the top two candidates side-by-side, after considering their respective nomination packages once again.

The recipient of each NACS Award and the nominator of the award recipient will be informed by the President of NACS of the decision of the jury, followed by the President's notification of jury members and of nominators of each of the other candidates.

A formal announcement, composed by the President of NACS in consultation with the recipient and the nominator of the recipient, is published on the NACS website and in the NACS newsletter and may be submitted to other venues for announcement. Each award is presented at the biennial NACS meeting, where the respective citations are read and each award winner receives a plaque.

Procedures for evaluation of nominations for the Boudart Award are broadly consistent with the procedures stated above for NACS awards, but the procedures are determined jointly by NACS and the European Federation of Catalysis Societies.

Award Deadlines

Service	15 May 2026
Houdry	17 Jul. 2026
Emmett	18 Sept. 2026
Boudart	6 Nov. 2026
Ciappetta	7 Nov. 2026
Burwell	25 Jan. 2027

See more details: https://nacatsoc.org/awards/

Previous Winners of the North American Catalysis Society Awards

Michel Boudart Award for the Advancement of Catalysis

2007 Alexis T. Bell
2009 Avelino Corma Canos
2011 James A. Dumesic
2013 Jens Nørskov
2015 Hajo Freund
2017 Bruce Gates
2019 Enrique Iglesia
2021 Graham Hutchings
2023 Johannes Lercher
2025 Bert Weckhuysen

Robert Burwell Lectureship in Catalysis

1983 Robert L. Burwell
1985 Wolfgang M. H. Sachtler
1987 John B. Peri
1989 Jack H. Lunsford
1991 Kamil Klier
1993 Werner O. Haag
1995 Gary Haller
1997 Wayne Goodman
1999 Harold Kung
2001 Tobin Marks
2003 Alexis T. Bell
2005 Enrique Iglesia
2007 James Dumesic
2009 Bruce Gates
2011 Johannes A. Lercher
2013 Charles Campbell
2015 Matt Neurock
2017 Jingguang Chen
2019 Abhaya Datye
2021 Manos Mavrikakis
2023 Umit Ozkan
2025 Yong Wang

F. G. Ciapetta Lectureship in Catalysis

1967 Jan H. deBoer
1968 John Sinfelt
1969 Stanlislas Teichner
1972 George C.A. Schuit
1973 Jose J. Fripiat
1974 Dennis A. Dowden
1975 Pierre C. Gravelle
1976 Gerhard Ertl
1977 John R. Anderson
1986 Michel Boudart
1988 James D. Idol
1990 W. Keith Hall
1992 R. van Santen
1994 John J. Rooney
1996 George Kokotailo
1998 Avelino Corma
2000 Gary McVicker
2002 John Monnier
2004 Douglas Stephan
2006 Stuart Soled
2008 Robert Farrauto
2010 Jeffrey T. Miller
2012 Thomas Degnan
2014 Paul Barger
2016 Ahmad Moini
2018 Teh Ho
2020 Cong-Yan Chen
2022 Sourav Sengupta
2024 Aleksey Yezerets
2026 David West

Paul H. Emmett Award in Fundamental Catalysis

1971 Richard J. Kokes
1973 John H. Sinfelt
1975 Jack H. Lunsford
1977 Gabor A. Somorjai
1979 Gerhard Ertl
1981 Peter A. Jacobs
1983 Robert J. Madix
1985 Alexis T. Bell
1987 M. Albert Vannice
1989 James A. Dumesic
1991 Harold Kung
1993 Mark Barteau
1995 Mark Davis
1997 Enrique Iglesia
1999 Raymond Gorte
2001 Donna Blackmond
2003 Francisco Zaera
2005 Matthew Neurock
2007 Robert J. Davis
2009 Manos Mavrikakis
2011 Bert Weckhuysen
2013 Christopher W. Jones
2015 Christophe COPÉRET
2017 Suljo Linic
2019 Javier Pérez-Ramírez
2021 Thomas Jaramillo
2022 Beatriz Roldan Cuenya
2023–2024 Aditya Bhan
2023–2024 Yuriy Román-Leshkov
2025–2026 Phillip Christopher
2025–2026 David Flaherty

Eugene J. Houdry Award in Applied Catalysis

1971 Herman S. Bloch
1973 Charles J. Plank
1975 Heinz Heinemann
1977 Vladimir Haensel
1979 Adalbert Farkas
1981 Herman Pines
1983 Milton Orchin
1985 John W. Ward
1987 Ralph J. Bertolacini
1989 Jule A. Rabo
1991 James Roth
1993 Wolfgang M. H. Sachtler
1995 Madan Bhasin
1997 John Armor
1999 Clarence Chang
2001 Leo Manzer
2003 Avelino Corma
2005 Henrik Topsœ
2007 Stacey Zones
2009 Jeffrey Beck
2011 James C. Stevens
2013 Giuseppe Bellussi
2015 Anne Gaffney
2017 Jeffery Bricker
2019 Hai-Ying Chen
2021 Deng-Yang (DY) Jan
2023 Stephen R. Schmidt
2025 José G. Santiesteban

NACS Award for Distinguished Service in the Advancement of Catalysis

2010 W. Nicholas Delgass
2012 John Armor
2014 Burtron H. Davis
2016 Gary L. Haller
2018 Alexis T. Bell
2021 Enrique Iglesia
2023 Stuart Soled
2025 Bruce Gates

2026 Southeastern Catalysis Society Annual Symposium

The 2026 SECS Annual Symposium will be held in Blacksburg, VA, on March 9–10, 2026. This will be a 1.5 day in-person symposium, lasting from Monday AM until Tuesday midday. The keynote speaker is Dr. Yong Wang (Washington State University), the recipient of the 2025 Burwell Lectureship in Catalysis; Dr. Wang's lecture is scheduled for Monday, March 9th. We will also have two invited speakers; from outside of the region, Prof. Gina Noh (Penn State) and from the SECS, Emma Hu (Georgia Tech).

Sponsorship at the silver ($500), gold ($1000), and platinum ($1500) levels is still welcome! Contact Tibor Szilvási (tibor.szilvasi@ua.edu) for more information.

Looking forward to seeing you in March!

Read More: https://nacatsoc.org/

Maria Flytzani-Stephanopoulos Symposium on Single-Site Catalysis 2025

Tufts University and the New England Catalysis Society (NECS) hosted the biannual Maria Flytzani-Stephanopoulos Symposium on Single-Site Catalysis in Medford, MA on October 10th. This symposium honors the late Maria Flytzani-Stephanopoulos's contributions to single-atom catalysis and creativity in the field, featuring a keynote lecture from Yong Wang (Washington State University/PNNL) and the 2025 Maria Flytzani-Stephanopoulos Creativity in Catalysis Award lecture from Paul Daunhauer (University of Minnesota).

Additionally, the symposium featured talks from Charlie Sykes (Tufts Univerisity), Bin Wang (University of Oklahoma), and Heather Kulik (MIT), a student/postdoc poster competition, and a panel comprising academics and industrial practitioners. For further details, visit: https://sites.tufts.edu/mfscatalysissymposium/

Looking forward, NECS is excited to host its next symposium in Spring 2026 at the University of Maine.

Read More: https://nacatsoc.org/

30th Biennial Organic Reactions Catalysis Society (ORCS)

ORCS Organic Reactions Catalysis Society

ORCS is affiliated to the North American Catalysis Society

Dear Colleagues,

It is my pleasure to announce that abstract submissions for the 2026 Biennial ORCS meeting are open through January 30, 2026, at 11:59 PM Central time. The conference will be held at the Hyatt Regency Sonoma Wine Country, April 12–16th, 2026 in Santa Rosa, CA. There will also be a Student Poster Session this year, along with a poster competition. In addition, travel funds will be available for students and postocs — please take advantage of this opportunity! Abstracts are to be submitted through the website (https://orcs.org/abstract) and are to be submitted in the NACS format – the template is available for download on the ORCS website via this link. If you have any questions or have special accommodation or timing requests, please send your emails to orcschair@orcs.org.

In addition, ORCS is excited to announce their award winners, who will be giving keynotes at our upcoming meeting. Prof. David Flaherty from Georgia Tech will receive the Paul N. Rylander award, established by ORCS in 1988 and sponsored by BASF for scientists who have made outstanding contributions in the field of catalysis as it applies to organic synthesis. Dr. Beata Kilos from The Dow Chemical Company will receive the Murray Raney award, established by ORCS in 1992 and sponsored by Grace Catalysts Technologies to acknowledge contributions in the use of base metal catalysts in organic synthesis. Prof. Quentin Michael from Texas A&M will receive the Robert Augustine Award, established by ORCS in 2017 and sponsored by ACS Journals for significant early career contributions to catalysis of organic reactions of industrial importance.

Read More: https://nacatsoc.org/

Tri-State Catalysis Society 2025 Annual Symposium

The Tri-State Catalysis Society hosted the 2025 Annual Symposium in Lexington, Kentucky at the esteemed Campbell House. We had a record number of attendees, who were captivated by the range of Invited, Keynote, and Award presentations. As part of the Symposium, we were delighted to have the 2024 Ciapetta Award winner Aleksey Yezerets present on his impactful work. The meeting featured lively discussions during both poster sessions.

It was great to see so many students attend and present posters at the Symposium. We also had presentations from two student award winners – Anant Sohale and Serra Yesilata. The future is bright for the next generation of Tri-State Catalysis members.

As part of the symposium, the group visited University of Kentucky's Center for Applied Energy Research (CAER), where they are researching sustainable routes to fuels and materials from low-cost and waste feedstocks.

We will be hosting the 2026 Annual Symposium in Cincinnati, Ohio! Be on the lookout for more information.

Read More: https://nacatsoc.org/

Club Directory

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Website: https://catalysisdivision.ca

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Pittsburgh, Cleveland Catalysis Society (PCCS)
Website: https://pccssite.wordpress.com

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The Ohio State University

2026 Catalysis Gordon Research Conference

Dates: June 21–26, 2026
Location: New London, New Hampshire
Website: https://www.grc.org/catalysis-conference/2026/
Application Deadline: May 24, 2026

The Catalysis GRC is a premier, international scientific conference focused on advancing the frontiers of science through the presentation of cutting-edge and unpublished research, prioritizing time for discussion after each talk and fostering informal interactions among scientists of all career stages. The conference program includes an array of speakers and discussion leaders from institutions and organizations worldwide, concentrating on the latest developments in the field. The conference is five days long and held in a remote location to increase the sense of camaraderie and create scientific communities, with lasting collaborations and friendships. In addition to premier talks, the conference has designated time for poster sessions from individuals of all career stages, and afternoon free time and communal meals allow for informal networking opportunities with leaders in the field.

Looking ahead, catalysis stands at the forefront of innovation in addressing global challenges associated with energy solutions and chemical manufacturing which are closely tied to population growth and economic development. As catalytic science evolves, it will drive the development of next-generation technologies for the efficient production of energy, chemicals, and fuels. The 2026 Catalysis GRC will delve into the emerging trends and applications in catalysis, highlighting transformative research in both fundamental catalytic principles and their applications. By bringing together leaders from academia, industry, and national laboratories, this conference will serve as a vital platform to identify critical scientific needs, accelerate innovation, and chart a collective vision for the next era of catalysis.

30th North American Catalysis Society Meeting (NAM30)

Dates: June 13-18, 2027
Location: Toronto, Ontario, Canada
Website: https://www.nam30.org/

The North American Catalysis Society (NACS) Meeting is the largest and most comprehensive catalysis conference in North America, held on a biennial basis and serving as a central forum for the exchange of ideas across the full breadth of catalytic science and engineering. NAM meetings bring together thousands of researchers from academia, industry, and national laboratories, spanning heterogeneous, homogeneous, and biocatalysis, as well as emerging areas at the interface of catalysis with data science, sustainability, and advanced manufacturing.

NAM30 will convene the global catalysis community in Toronto, a major international hub for science, technology, and innovation. The meeting will feature a rich technical program including plenary and keynote lectures, parallel technical sessions, poster presentations, and focused symposia organized by the NACS technical divisions. With strong participation from industrial practitioners and early-career researchers alike, NAM30 will provide a uniquely inclusive platform to highlight scientific breakthroughs, foster cross-sector collaboration, and define research priorities that will shape the future of catalysis in energy, chemicals, and environmental technologies.

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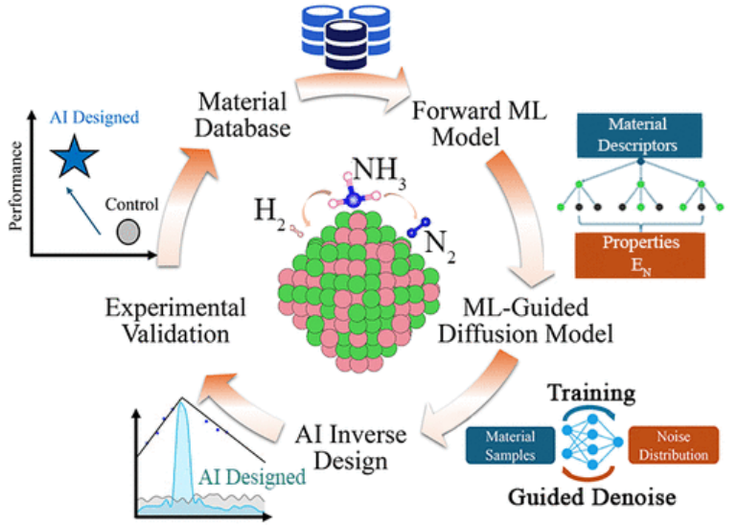
Diffusion-model inverse design of bimetallic catalysts for low-carbon ammonia decomposition

Yang, J.; Ye, K.; Xie, S.; Li, Q.; Milhans, C.; Liu, F.; Che, F. Diffusion Model-Guided Inverse Design of Bimetallic Catalysts for Ammonia Decomposition. *J. Am. Chem. Soc.* **2025**, ASAP.

DOI: 10.1021/jacs.5c14652



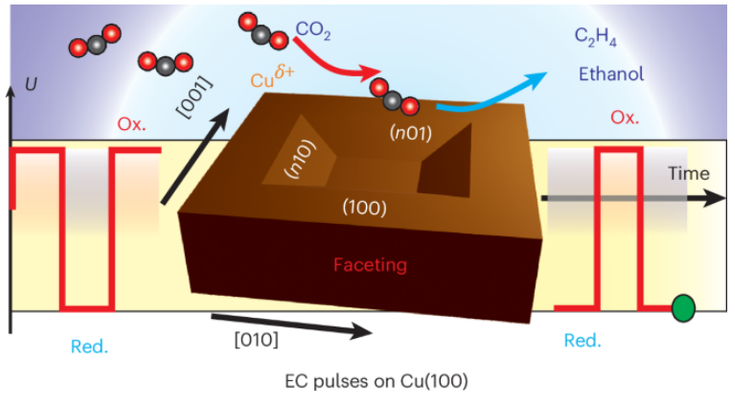
This work presents a machine-learning-guided inverse-design workflow that couples a generative diffusion model with a separate property-prediction model to explore bimetallic alloy catalysts for ammonia decomposition. Candidates are prioritized using nitrogen adsorption energy as a key descriptor motivated by multiscale modeling, enabling efficient navigation of a large compositional space. The authors report that the workflow identifies low-cost bimetallic compositions with strong predicted performance, supported by both theoretical assessment and experimental validation.

Why It Matters: Ammonia decomposition is a practical route for on-demand H_2 generation and a pathway for ammonia emissions control; accelerating discovery of inexpensive, non-precious bimetallic catalysts supports scalable hydrogen supply chains with reduced cost and environmental footprint.

Correlated spectro-microscopy reveals faceting and oxide stabilization during pulsed CO_2 electroreduction on Cu(100)

Tănase, L. C.; Prieto, M. J.; de Souza Caldas, L.; Tiwari, A.; Scholten, F.; Grosse, P.; Martini, A.; Timoshenko, J.; Schmidt, T.; Roldan Cuenya, B. Morphological and chemical state effects in pulsed CO_2 electroreduction on Cu(100) unveiled by correlated spectro-microscopy. *Nat. Catal.* **2025**, *8*, 881–890.

DOI: 10.1038/s41929-025-01387-6



EC pulses on Cu(100)

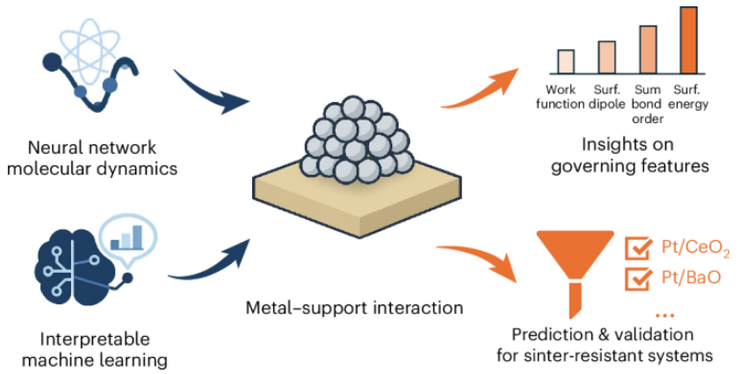
Using concurrently applied spectroscopy, microscopy, and diffraction, the authors resolve how Cu(100) morphology, chemical state, and crystal structure evolve under anodic/cathodic potential pulses during CO_2 electroreduction. Anodic pulses induce the formation of (n10) facets, while alternating anodic-to-cathodic pulsing stabilizes copper-oxide species either at the surface or beneath ultrathin metallic Cu layers depending on

the pulse protocol. These structural and chemical-state changes are linked to the enhanced ethylene and ethanol production reported under pulsed operation.

Why It Matters: Mechanistic clarity on pulse-induced restructuring provides actionable design rules for dynamic CO_2 electrolysers targeting multi-carbon products, supporting carbon utilization and renewable-electricity-to-chemicals pathways.

Interpretable ML with neural-network MD screens oxide supports to suppress Pt nanoparticle sintering

Jiang, C.; Yan, B.; Goldsmith, B. R.; Linic, S. Predictive model for the discovery of sinter-resistant supports for metallic nanoparticle catalysts by interpretable machine learning. *Nat. Catal.* **2025**, *8*, 1038–1050.
DOI: 10.1038/s41929-025-01417-3

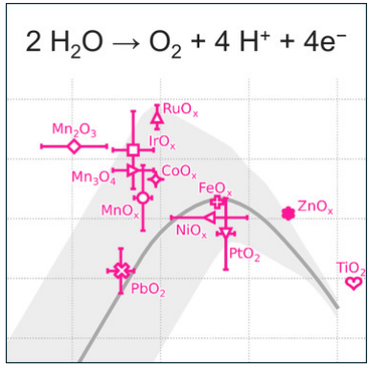


The authors combine first-principles neural-network molecular dynamics with interpretable machine learning to disentangle how oxide-support properties govern Pt nanoparticle metal–support interactions and sintering dynamics. Feature attribution identifies support surface energy, surface oxygen bond order, surface dipole, and work function as dominant descriptors of Pt–oxide interactions. Guided by these descriptors, they screen >10,000 metal–oxide surfaces and validate selected sinter-resistant candidates via Monte Carlo simulations and experiments.

Why It Matters: Catalyst sintering is a central industrial deactivation pathway; data-driven identification of stabilizing supports can extend catalyst lifetimes, reduce precious-metal replacement rates, and improve process uptime in large-scale chemical manufacturing.

Uncertainty-aware microkinetics identifies robust operating windows for programmable (dynamic) catalysis

Gathmann, S. R.; Jung, S.; Dauenhauer, P. J. Catalytic Resonance Theory for Parametric Uncertainty of Programmable Catalysis. *Chem Catal.* **2025**, *5*, 101523.
DOI: 10.1016/j.checat.2025.101523



The authors quantify how uncertainty in linear scaling and Brønsted–Evans–Polanyi parameters propagates into microkinetic predictions for programmable (dynamically modulated) catalysis. Using Monte Carlo uncertainty propagation and variance-based global sensitivity analysis, they identify which parameters dominate output uncertainty and test whether error-unaware models can still predict near-optimal waveform parameters. Across both a prototype surface reaction and the oxygen evolution reaction, they pinpoint dynamic operating regimes where order-of-magnitude rate enhancement persists despite parameter uncertainty, establishing uncertainty-aware design criteria for dynamic catalysis.

Why It Matters: Dynamic catalysis concepts are moving toward experimental implementation; rigorously accounting for parametric uncertainty strengthens the credibility of computational screening and helps define robust, practically reachable operating windows for accelerated electrocatalysis and heterogeneous catalysis under modulation.

Leo E. Manzer (1947–2025)

Leo, age 78, passed away peacefully on the morning of Aug 10th at home with his wife, two children, and beloved dog, Chloe, by his bedside. Leo was born in 1947 in Timmins, Ontario Canada. He spent his early years moving around in Ontario before his family settled in Niagara Falls. He graduated with an Honors degree in Chemistry from the University of Waterloo and obtained his PhD in chemistry from the University of Western Ontario in 1973.

Upon graduation he was hired by DuPont and joined their Central Research Department at the Experimental Station in Wilmington DE where he began a 32-year career. Leo managed groups doing catalysis and process research and development, retiring at the age of 58 as a DuPont Fellow. After retirement Leo founded Catalytic Insights and worked with over 50 startup companies developing technologies for the conversion of biomass to biofuels and biochemicals. During his consulting and DuPont careers he was the proud inventor of 167 US patents and over 500 foreign patents.

Leo loved the outdoors and after retirement enjoyed his home in Lewes DE where he spent much of his summertime surf fishing and kayak fishing at Cape Henlopen State Park. It was there that he taught his children and grandchildren to fish and kayak. He also enjoyed fishing and camping with his brother in Northern Ontario for bass, and multiple trips to Kodiak, Alaska, to catch salmon and halibut.

Leo is survived by his wife of 55 years, Margaret, children Joan and Chad, 4 grandchildren and his brother Al.

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