

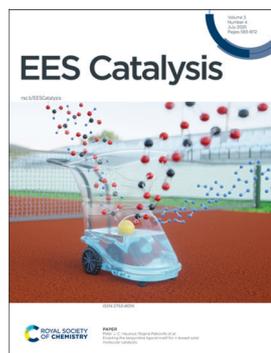
# EES Catalysis

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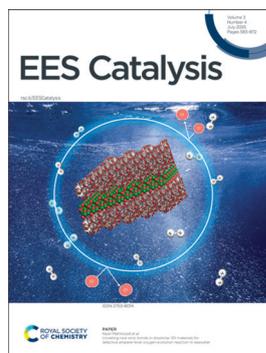
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eISSN 2753–801X CODEN ECEACE 3(4) 583–872 (2025)



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See Peter J. C. Hausoul, Regina Palkovits *et al.*, pp. 701–711. Image reproduced by permission of Regina Palkovits from *EES Catal.*, 2025, 3, 701.



### Inside cover

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## EDITORIAL

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Annemie Bogaerts, Gabriele Centi and Jason C. Hicks

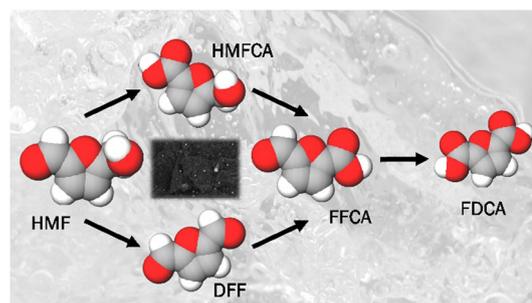


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Jacob M. Molinaro, Joel Swartzentruber, Van W. Ledger, Zachary T. Fredericks, David Martin Alonso and Stephanie G. Wettstein\*



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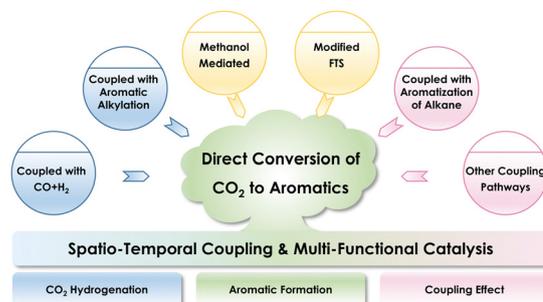
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### Direct conversion of CO<sub>2</sub> to aromatics based on the coupling strategy and multi-functional catalysis

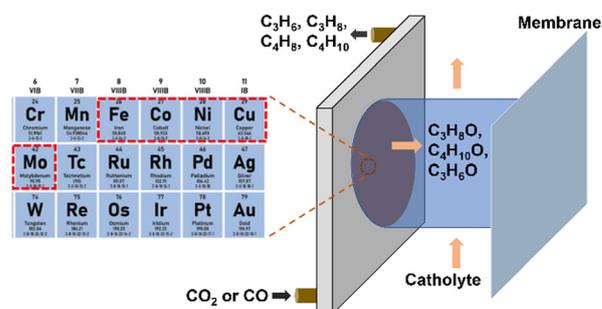
Chang Liu, Yangdong Wang,\* Lin Zhang, Junjie Su, Su Liu, Haibo Zhou, Wenqian Jiao and Zaiku Xie\*



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### Catalysts for selective CO<sub>2</sub>/CO electroreduction to C<sub>3+</sub> compounds

Ngoc Huan Tran, Moritz W. Schreiber and Marc Fontecave\*

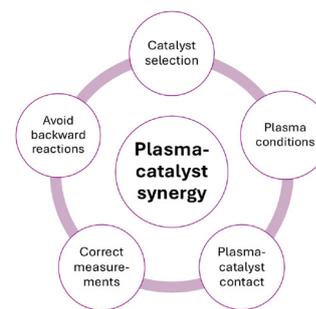


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### Plasma catalysis: what is needed to create synergy?

Joran Van Turnhout, Kevin Rouwenhorst, Leon Lefferts\* and Annemie Bogaerts\*

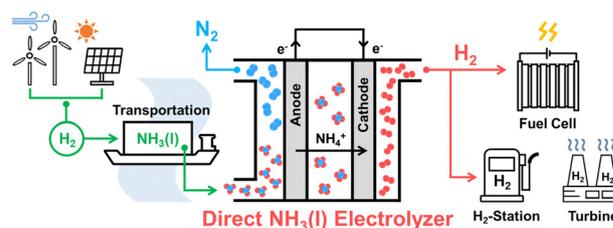


## COMMUNICATION

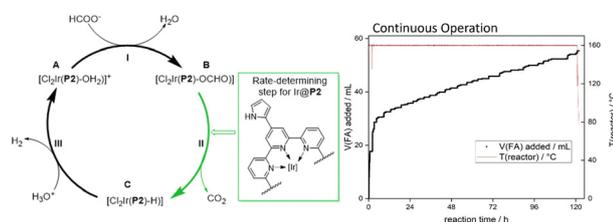
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### Direct electrolysis of liquid anhydrous ammonia for continuous production of high-purity, pressurized hydrogen at ambient temperature

Seungmok Han, Junsoo Ha, Jae Seung Lee, Hyukjoo Lee, Chang Hyun Lee, Kangwoo Cho and Chang Won Yoon\*



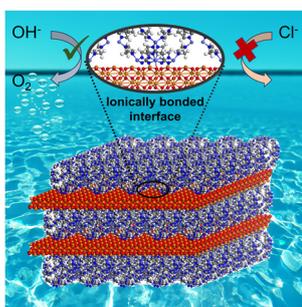
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Keanu V. A. Birkelbach, Heinrich Hartmann, Astrid Besmehn, Alexander Meledin, Isabella Kappel, Peter J. C. Hausoul\* and Regina Palkovits\*

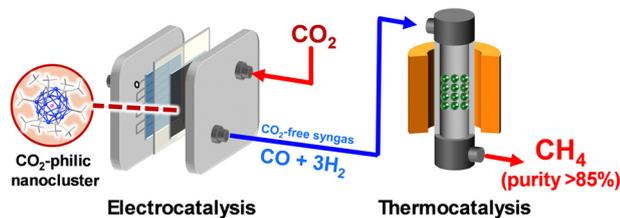
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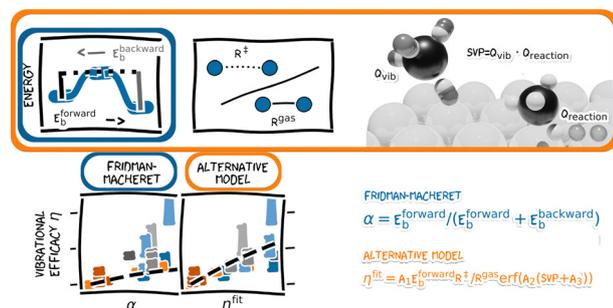
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## Vibrationally excited molecule–metal surface reactions in heterogeneous and plasma catalysis: going beyond the Fridman–Macheret $\alpha$ model

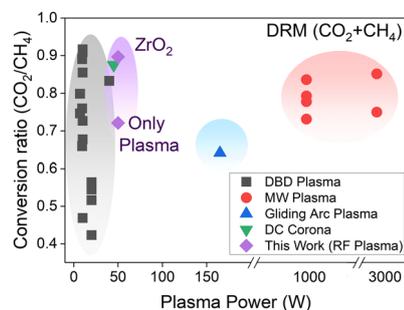
Nick Gerrits\* and Annemie Bogaerts



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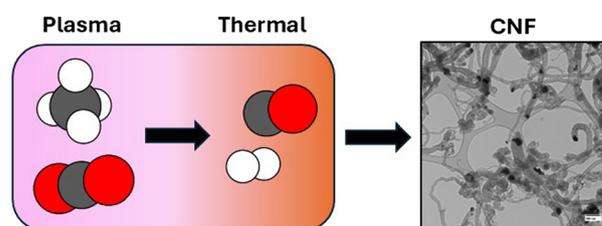
FNU Gorky, Levi Pile, Grace Jones, Apolo Nambo, Mourad Benamara and Maria L. Carreon\*



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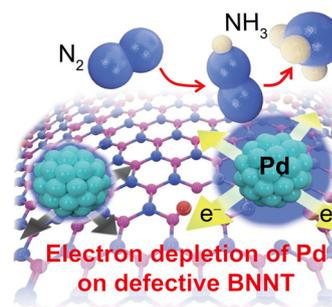
Kevin K. Turaczy, Zhenhua Xie and Jingguang G. Chen\*



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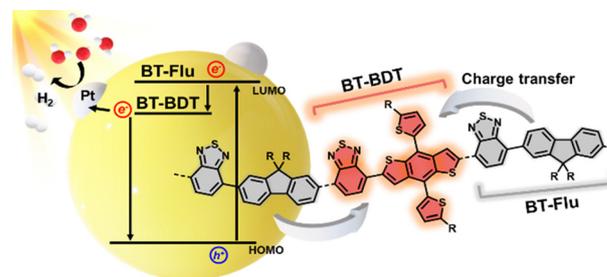
Ji-Yoon Song, Jaehyun Park, Minsung Kang, Wooseok Lee, Jee Ho Ha, Jinpil Ha, Won Bo Lee, Aqil Jamal, Issam Gereige, YongJoo Kim,\* Hyeonsu Jeong,\* Seokhoon Ahn,\* Seok Ju Kang\* and Hee-Tae Jung\*



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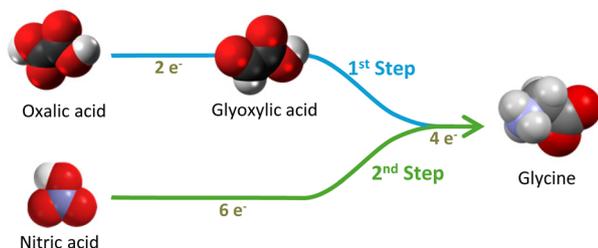
### Two-step polymerization for tailored donor-acceptor interactions driving efficient hydrogen evolution in visible-light photocatalysts

Wooteak Jung, Sanghyeok An, Gayoung Ham, Chanhyeok Kim, Soyeon Lee, Jiwoong Yang, Dae Sung Chung,\* Hyojung Cha\* and Taiho Park\*



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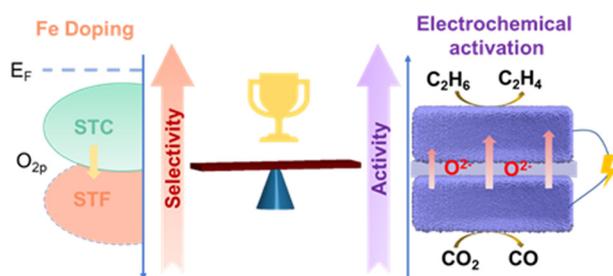
## Two-Step Tandem Electrosynthesis of Glycine



## Two-step tandem electrochemical conversion of oxalic acid and nitrate to glycine

Yuan-Zi Xu, Daniel F. Abbott, Lok Nga Poon and Victor Mougel\*

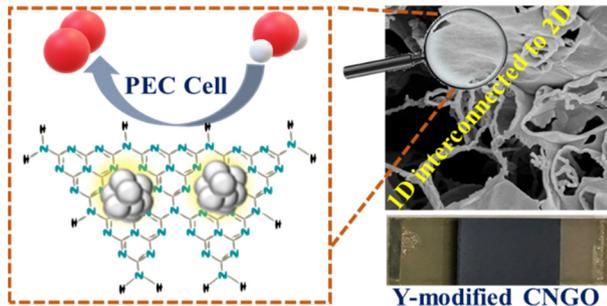
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## Breaking the selectivity-activity seesaw in ethane oxidative dehydrogenation via the synergistic effects of doping and electrochemical activation

Xiang Sun, Benchi Chen, Heejae Yang, Mengzhen Zhou, Nian Zhang, Yunkyung Kim, Wonyoung Lee, Jeong Woo Han,\* Zhang Lin and Yan Chen\*

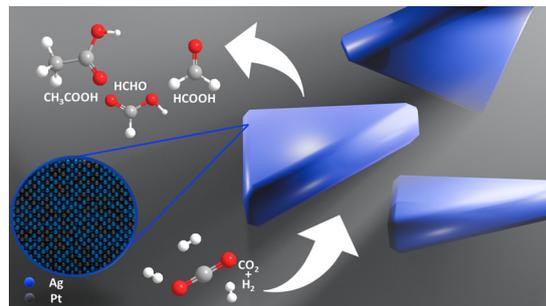
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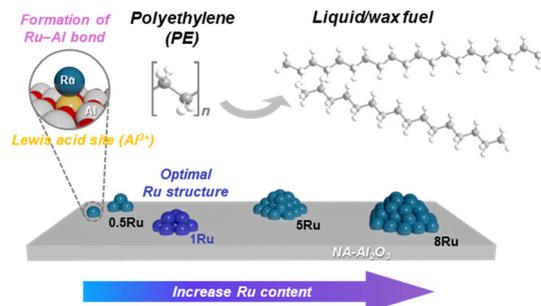
Garv Bhardwaj, Fergus McLaren, Kishan S. Menghrajani, Sanje Mahasivam, Stefan A. Maier, Murali Sastry and Akshat Tanksale\*



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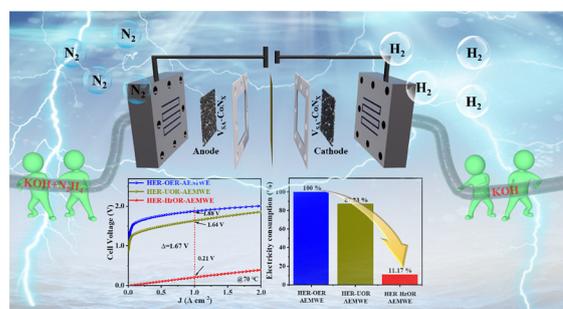
Jueun Kim, Donghyeon Kim, Byung Gwan Park, Daewon Oh, Shinjae Lee, Jihun Kim, Eonu Nam and Kwangjin An\*



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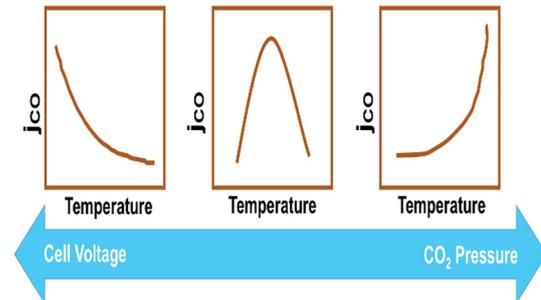
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Yang Li, Huiyue Liu, Jithu Raj, Mohammad Pishnamazi and Jingjie Wu\*



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