**Selected Recent Publications (2017-2019)**

E. Gomez, B. Yan, S. Kattel and J.G. Chen\*, “Carbon dioxide reduction in tandem with light alkane dehydrogenation”, *Nature Reviews Chemistry*, (2019) accepted.

H.B. Tao, J. Zhang, J. Chen, L. Zhang, Y. Xu, J.G. Chen\*, and B. Liu\*, “Revealing Energetics of Surface Oxygen Redox from Kinetic Fingerprint in Oxygen Electrocatalysis”, *Journal of the American Chemical Society*, (2019) accepted.

X. Yang, S. Kattel, J. Nash, X Chang, J.H. Lee, Y. Yan\*, J.G. Chen\* and B. Xu\*, “Quantification of Active Sites and Elucidation of Reaction Mechanism of Electrochemical Nitrogen Reduction Reaction on Vanadium Nitride”, *Angewandte Chemie International Edition*, (2019) accepted.

J.H Lee, S. Kattel,Z. Jiang,Z. Xie, S. Yao, B.M. Tackett, W. Xu, N.S. Marinkovic, and J.G. Chen\* “Tuning the Activity and Selectivity of Electroreduction of CO2 to Synthesis Gas using Bimetallic Catalysts”, *Nature Communications*, 10 (2019) 3724.

W. Luc, B.H. Ko, S. Kattel, S. Li, D. Su, J.G. Chen\*, and F. Jiao\*, “SO2-induced Selectivity Change in CO2 Electroreduction”, *Journal of the American Chemical Society*, 241 (2019) 9902.

B.M. Tackett, E. Gomez and J.G. Chen\*, “Net reduction of CO2 via its thermocatalytic and electrocatalytic transformation reactions in standard and hybrid processes”, *Nature Catalysis*, 2 (2019) 381.

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J. Wang, S. Kattel, C.J. Hawxhurst, J.H. Lee, B.M. Tackett, K. Chang, N. Rui, C.-J. Liu\* and J.G. Chen\*, “Enhancing Activity and Reducing Cost for Electrochemical Reduction of CO₂ by Supporting Palladium on Metal Carbides”, *Angewandte Chemie International Edition*, 58 (2019) 6271.

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E. Gomez, S. Kattel, B. Yan, S. Yao, P. Liu and J.G. Chen\*, “Combining CO2 Reduction with Propane Oxidative Dehydrogenation over Bimetallic Catalysts”, *Nature Communications*, 9 (2018) 1398.

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