Thrust III: Stabilizing physical and electrochemical interfaces



Dynamical conductive skeletons

Graded Electrochemical Interfaces



Heteroatom doped graphene catalysts



A porous conductive scaffold to accommodate the volume expansion and ensure physical and electrical integrity. A graded electrochemical interface to mitigate detrimental interfacial reactions and increase the interfacial stability. Electrocatalysts can facilitate the desired echem reaction pathway, minimize overpotential and avoid the undesired ones.

Lead: Xiangfeng Duan, UCLA. Senior Investigators: Brad Chmelka, Bruce Dunn, Sri Narayan, Johanna Nelson Weker, Philippe Sautet, Kim See, and Sarah Tolbert

Graduate Students and Postdoctoral Fellows: Dan Bauman, Andrew Dawson, Buddhinie Jayathilake, Shu-Ting Ko, Jesse Ko, Terri Lin, Jian Luo, Ahamed Irshad Maniyanganam, Joseph Mazzetti, Lele Peng, Charlene Salamat, Chengzhang Wan, Tao Wang, Ziyang Wei, Grace Whang, Josh Zak, and Dan Zhu





