AI-Mat Frontier Workshop

Perspectives on Sustainable Energy Materials:

Catalysts and Battery Materials

October 6th 2023

Venue: R212, Center for Condensed Matter Sciences, National

Taiwan University

Торіс	Speaker	Time
Opening Remarks (13:30-13:40)		
(<i>Keynote lecture</i>) New theory and computational methods applied to designing better materials for energy, environment, and sustainability, with applications ranging from Li anode batteries to electrocatalytic CO_2 reduction, water splitting, and N_2 reduction, and to H_2 PEM Fuel Cells	Dr. William A. Goddard III	13:40-15:10
Coffee break (15:10-15:40)		
(Invited talk) VLS-growth of 2D $Mo_{1-x}V_xS_2$ for carbon dioxide photoreduction with water over S_V -dopant active sites		15:40-16:00 (15 min talk and 5 min Q&A)
(<i>Invited talk</i>) A DFT study of V- doped MoS_2 for CO_2 reduction reaction	Dr. Ying-Ren Lai (Dr. Michitoshi Hayashi group)	16:00-16:20 (15 min talk and 5 min Q&A)
(<i>Invited talk</i>) Manipulating Spin Exchange Interactions and Spin- Selected Electron Transfers of 2D Metal Phosphorus Trisulfide Crystals for Efficient Oxygen Evolution Reaction	Mr. Chih-Ying Huang (Dr. Chun-Wei Chen group)	16:20-16:40 (15 min talk and 5 min Q&A)
Summary and Closing Remarks (16:40-)		

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