Probing Chemical Reactions by Single-Molecule Spectroscopy
Virtual Conference, June 8th, 2021

Organizers: Prof. Suzanne A. Blum (University of California, Irvine) & Prof. Randall H. Goldsmith (University of Wisconsin, Madison)

Registration is required, register here

Morning 1 - 08:00 US Central Time, 15:00 Central European Summer Time, 21:00 China Standard Time
- Prof. Suzanne Blum (UC Irvine, US), Prof. Randall Goldsmith (UW-Madison, US): Welcoming Remarks
- Prof. Steve Granick (Institute for Basic Science, KR): Surprises and opportunities - the reaction intermediate problem
- Prof. Weilin Xu (Changchun Institute Of Applied Chemistry, CN): The Application of Single-Molecule Fluorescence Microscopy in Energy-related Electrocatalysis
- Prof. Gregor Jung (Saarland University, DE): Dual emissive fluorophores for probing chemical reactions
- Prof. Wei Wang (Nanjing University, CN): Imaging the temperature-induced phase transition of single nanoparticles
- Prof. Ning Fang (Xiamen University, CN): Single-Molecule Chemical Dynamics in Nanoconfinements and Defects
- Prof. Dominik Woell (RWTH Aachen University, DE): Chemistry, Crosslinking, and Catalysis in Microgels investigated with Single Molecule Fluorescence-based Methods
- Prof. Juan (Tito) Scalano (University of Ottawa, CA): Fiber glass catalysis. Real-time, single molecule visualization of Palladium catalytic centers during the reduction of nitro compounds
- Prof. Dirk-Peter Herten (University of Birmingham, GB): Fluorogenic click reactions – a close look into tetrazine chemistry
- Dr. Jan Vogelsang (University of Regensburg, DE): Picosecond time-resolved photon antibunching measures nanoscale exciton motion, annihilation, and the true number of chromophores

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Afternoon 1 - 13:40 US Central Time, 20:40 Central European Summer Time, 02:40 China Standard Time
- Prof. Bert Weckhuysen (Utrecht University, NL): Single-Molecule Tracking Reveals Diffusion Heterogeneity in Zeolite Channels
- Prof. Peng Chen (Cornell University, US): Mapping cooperative ligand adsorption at the nanoscale
- Prof. Lidya Kisley (Case Western Reserve University, US): Detecting corrosion reactions at the single-molecule level
- Prof. Justin Sambur (Colorado State University, US): Single molecule, single particle-level imaging of defect mediated energy transfer

Afternoon 2 - 16:00 US Central Time, 23:00 Central European Summer Time, 05:00 China Standard Time
- Prof. Bryce Sadtler (Washington University in St. Louis, US): Using single-molecule imaging to probe the role of oxygen vacancies in semiconductor photocatalysis
- Prof. Matthew Lew (Washington University in St. Louis, US): Visualizing Enzyme Activity in Lipid Membranes, One Molecule at a Time
- Prof. Kevin Welsher (Duke University, US): Untethering Single Microscopy with 3D-SMART
- Prof. Prashant Jain (University of Illinois Urbana-Champaign, US): Three surprises from single-molecule-level probing of a photocatalyst
- Prof. Christy Landes (Rice University, US): Single Particle Spectroelectrochemistry: Imaging and Controlling Irreversible Chemical Processes
- Closing Remarks