

Posters list for the CAP Workshop, September 27-28

No	Name	Title
1	Andrew Bagnall	Molecular-engineered electrodes incorporating novel derivatives of a hydrogen-evolving cobalt macrocyclic complex
2	Sigrid Berglund	A cobaloxime-based artificial metalloenzyme for hydrogen production
3	Paul Bolay	Metabolic engineering of phototrophic cyanobacteria for sustainable isoprene production
4	Barbara Bourgade	CRISPR-based tool development for metabolic engineering applications in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803
5	Andjela Brnović	Small organic molecule-based nanoparticles for photocatalytic hydrogen production
6	Maximilian Böhm	Biocatalytic fixation of carbon dioxide - Biodiversity of carbon monoxide dehydrogenases
7	Princess Cabotaje	Improved H ₂ production and O ₂ tolerance in a [FeFe]-hydrogenase through rational design
8	Bin Cai	Promoted charge separation and long-lived charge-separated state in a porphyrin-methyl viologen dyad molecule dot: towards application for efficient photocatalytic hydrogen production
9	Rima Charaf	Photoinduced Electron Transfer and Proton-Coupled Electron Transfer Mechanisms of Photoredox β -scission of Alcohols
10	Samir Chattopadhyay	Elucidating the mechanism of CO ₂ reduction by manganese and rhenium catalysts- An FTIR study
11	Haoliang Cheng	Atomic layer deposition of SnO ₂ as an electron transport material for solid-state p-type dye-sensitized solar cells
12	Fangwen Cheng	Rational tuning of metal surface properties for solar cells and solar fuels
13	Nicholas Croy	The role of water networks, hydrogen bonding, and protein dynamics in biological energy conversion reactions studied by neutron scattering
14	Robin Dürr	Selecting the Right NiMoO ₄ ·H ₂ O Nanostructure as Catalysts for Water Splitting Applications
15	Nora Eliasson	Ultrafast Dynamics in Semiconductor-Molecular Hybrid Systems for Solar Fuel Generation: Cu _{0.2} In ₁ S _x Quantum dots with Molecular H ₂ -Evolution Catalysts
16	Mira Gamache	Exploring E.Coli based Semi-Artificial Photosynthesis - Impact of Redox Mediators and Photosensitizers on [FeFe] Hydrogenase driven Hydrogen Evolution
17	Sagar Ganguli	Role of an Inert Electrode in Plasmonic Electrocatalysis
18	Nidhi Kaul	Carbenes: The Gathering
19	Max Klamke	Isolation and characterization of the novel [FeFe] hydrogenase Fm-M1a
20	Amit Kugler	Light-driven production of amino acids through systems metabolic engineering of cyanobacteria
21	Gaurav Kumar	A series of benzothiadiazole polymers based Pdots for photocatalytic hydrogen evolution
22	Amol Kumar	Electrochromic Isorecticular MOFs for Photoredox organic transformations
23	Larissa Kurth	Exploration and Optimization of a Photocatalytic E. coli-Whole-Cell-based Biohybrid System for [FeFe]-Hydrogenase-driven H ₂ -Production

24	Jingguo Li	Direct observation of intrinsic redox-conduction in a metal-organic framework
25	Astrid Nilsen-Moe	Proton-Coupled Electron Transfer from Tyrosine and Tyrosine-like Amino Acids
26	Olha Pavliuk	[FeFe] hydrogenases: Developing expression systems for unexplored B type group
27	João Rodrigues	Effect of isoprene production on cyanobacterial cell economy when grown under different light regimes
28	Andrea Rosichini	Proton-Coupled Energy Transfer: investigating a new type of proton-coupled reaction
29	Sergii Shylin	Water oxidation using hybrid POM-based catalysts
30	Hongwei Song	Realizing Symmetry-Breaking Molecular Architectures in Soap Films
31	Claudia Spallacci	Biomimetic self-assembly of water oxidation catalysts
32	Nina Suremann	Visible-Light-Driven Carbon Dioxide Reduction Catalyzed by a Cobalt Porphyrinic Metal-Organic Framework
33	Sindhujaa Vajravel	A Comparative Study on the Efficiency of Sensitized Photodimerization of Small 1,3-Dienes Leading to Kerosene-Type Fuel Compounds
34	Nikoleta Vogiatzi	Molecular understanding of the cyanobacterial CO ₂ fixing mechanism
35	Kaija Walter	Bioinformatical analysis of the hydrogenases phylogenetic tree and characterization of a hitherto uncharacterized Group B hydrogenase of central importance to the hydrogen metabolism in the human gut
36	Sicong Wang	Efficient Generation of Hydrogen Peroxide and Formate by an Organic Polymer Dots Photocatalyst in Alkaline Conditions
37	Sina Wrede	Solvent dependence of lateral hole and electron hopping between a donor-acceptor dye across mesoporous ZrO ₂
38	Hao Xie	Metabolic engineering of cyanobacteria for isobutanol production
39	Hao Yang	Intramolecular Hydroxyl Nucleophilic Attack Pathway by a Polymeric Water Oxidation Catalyst with Single Cobalt Sites
40	Afridi Zamander	Development of bioinspired electrode materials for hydrogen evolution
41	Ziwen Zhao	Data processing algorithm for Single Entity Electrochemistry