Annual meeting of the COST Action: Computational materials sciences for efficient water splitting with nanocrystals from abundant elements (CA18234)

# "Computational water splitting, where we are now and where to go?

February 14-15, 2022, on-line event

THE PROGRAM (final version Feb. 14, 2022)

## Monday, Feb. 14

Monday, Feb. 14			
9:00-9:05 9:05-9:25	Welcome ( <i>Tomasz A. Wesolowski</i> ) Introduction by the Action Chair ( <i>Maytal Caspary Toroker</i> )		
Session 1 (WG1) Chair Francesc Illas			
9:30-10:30	Electrochemical water splitting: state of the art (keynote talk) Federico Calle-Vallejo (Barcelona, Spain)		
10:30-11:00	Role of Dihydrogen Complexes in Hydrogen Evolution Reaction on Single Atom Catalysts, Giovanni di Liberto (Milan, Italy)		
11:00-11:30	Oxygen Evolution Reaction with IrO <sub>2</sub> and IrO <sub>2</sub> -based hybrid materials Xavier Solans (Barcelona, Spain)		
11:30-12:00	Virtual coffee break		
Special session: Chair Tomasz A. Wesolowski			
13:00-14:00	Transitioning from barrier to porous Al oxides by tuning anodizing parameters, (invited experimental talk) <i>Noemie</i> Ott (EMPA, Dubendorf)		
Session 2 (WG1 cnt.) Chair Francesc Viñes Solana			
14:00-14:30	Water splitting on stepped STO surface: reaction mechanisms  Yuri. A. Mastrikov (Riga, Latvia)		
14:30-15:00	On the role of dopants and defects in tuning Oxygen electrocatalysis at transition metal oxide surfaces,  Michele Pavone (Naples, Italy)		
15:00-15:30	Virtual coffee break		
Management Committee Meeting			
15:30-17:00	MC breakout room		

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#### Tuesday, Feb. 15

9:00-9:30	Black Titania – Insights from ab initio simulations, F. Mayrhofer (Freiburg, Germany)
9:30-10:00	Stability of the hematite supported oxide nanoclusters from MD simulations, Bartłomiej Szyja (Wrocław, Poland)
10:00-10:30	Biomass reforming into hydrogen production with ZrO2 using ReaxFF, Veerapandian Ponnuchamy (Izola, Slovenia)
10:30-11:00	Virtual coffee break

#### Session 4 (WG1+WG4) Chair Anja Bierberle-Hütter

11:00-11:30 Simulating thermodynamic and kinetic properties of surface states for OER catalysis,

Nadav Snir (Technion, Israel)

11:30-12:00 Description: Variance-based Global Sensitivity Analysis: A Methodological Framework and Case Study for Microkinetic Modelling,

Bart van den Boorn (Eindhoven, The Netherlands)

12:00-12:05 Closing the conference

### Meetings of the Working Groups

13:00-13:30	WG1
13:30-14:00	WG4
14:00-14:30	WG5