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TAming COmplexity in Materials Modeling (TACO)

Kick-off Meeting Program

Date: September 27 & 28, 2021

Place: Technische Universität Wien, Gußhausstraße 25-29, 1040 Vienna, Lecture Hall E1 9

Monday, September 27

12:00 – 13:00	Arrival, Get Together
13:00 – 13:15	Welcome addresses by Ulrike Diebold (TACO coordinator) and Johannes Fröhlich (Vice-Rector for Research, TU Wien)
13:15 – 13:55	Bjørk Hammer, Aarhus University Keynote I: <i>Machine Learning Enhanced Evolutionary Search for Structure</i>
13:55 – 14:25	Jesús Carrete Montaña, TU Wien (P09) <i>Machine-Learning Methods for Structure Prediction of Multi-Component Perovskites</i>
14:25 – 15:00	Coffe Break
15:00 – 15:30	Michele Riva, TU Wien (P02) <i>Perovskite Oxide Surfaces: Challenges and Opportunities</i>
15:30 – 16:00	Michele Reticcioli, University of Vienna (P07) <i>Polarons in TACO: Properties, Effects, and Promising Novel Recipes</i>
16:00 – 16:30	Aleix Comas-Vives, Universitat Autònoma de Barcelona <i>Tackling the Understanding of Heterogeneous Catalysts using Theory</i>
16:30 – 18:30	Poster Session
18:30 – Open End	Reception & Poster Viewing

Be aware that during the meeting the corona measures of the TU Wien will be enforced, which includes an **urgent appeal to get vaccinated**.



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Tuesday, September 28

09:00 – 09:40	Stefan Freunberger, IST Austria Keynote II: <i>Reaction Mechanisms and Phase Evolution in Main Group Redox Chemistries</i>
09:40 – 10:10	Günther Rupprechter, TU Wien (P08) <i>Catalysis by Ultrathin LaBO₃ (B=Co, Fe) Perovskite Films: Progress Report</i>
10:10 – 10:40	Coffee Break & Poster Viewing
10:40 – 11:10	Andreas Nening, TU Wien <i>Kinetics and Defect Chemistry of Mixed Conducting SOFC Electrodes at High Temperature</i>
11:10 – 11:40	Karin Föttinger & Christoph Rameshan, TU Wien (P10) <i>First Insights into the Structure and Reactivity of Ferrite and Perovskite Nanoparticles</i>
11:40 – 12:10	Gareth Parkinson, TU Wien (P04) <i>Water-Gas Shift Chemistry on Fe₃O₄</i>
12:10 – 13:40	Lunch Break
13:40 – 14:20	Anatole von Lilienfeld, University of Vienna Keynote III: <i>Quantum Machine Learning in Chemical Compound Space</i>
14:20 – 14:50	Christoph Dellago, University of Vienna (P12) <i>Machine Learning for Molecular Simulation: Some Successes, Challenges and Promises</i>
14:50 – 15:20	Coffee Break & Poster Viewing
15:20 – 15:50	Andreas Grüneis, TU Wien <i>Reaching Chemical Accuracy in ab initio Simulations of Complex Materials</i>
15:50 – 16:20	Carla Verdi, University of Vienna (P03) <i>Thermodynamic Properties of Zirconia from Machine Learning within and beyond DFT</i>
16:20 – 16:45	Final Discussion

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