CA18234. COMPUTATIONAL MATERIALS SCIENCES FOR EFFICIENT WATER SPLITTING WITH NANOCRYSTALS FROM ABUNDANT ELEMENTS





FIRST INTERNATIONAL SYMPOSIUM ON THE DFT MODELLING OF MATERIALS RELEVANT FOR WATER SPLITTING FRIDAY // 11 DEC. 2020 // PROGRAM

09:00 OPENING AND REMARKS FROM THE ACTION CHAIR

SESSION 1, CHAIR: MICHELE PAVONE

UNIVERSITY OF NAPLES FEDERICO II, ITALY

	CARLO ADAMO > Development of quantum chemical
09:15	methods for the description of the complex interfaces,
	Chimie, ParisTech

	MAYTAL CASPARY TOROKER ► Material variations in
10:05	nano-scaled nickel oxyhydroxide affecting the wate oxidation reaction, Technion, Israel

10:35	MARCOS FERNÁNDEZ GARCÍA ► Hydroger
	thermo-photo production using metal-promoted
	titania-based materials, ICP-CSIC, Spain

11:05

KAI EXNER > Recent Advancements in the Theoretical Description of the Oxygen Evolution Reaction: Activity Descriptors and Screening Approaches, Duisburg-Essen Universität, Germany

SESSION 2, CHAIR: DOROTA RUTKOWSKA-ZBIK

JERZY HABER INSTITUTE OF CATALYSIS AND SURFACE CHEMISTRY, KRAKOW, POLAND

11:55	GIOVANNI DI LIBERTO ► Theoretical Description of
	BiVO4-based Heterojunctions for Photocatalytic Water
	Splitting: Insights from DFT, Università degli Studi di
	Milano-Bicocca, Italy

	CHRISTIANA A. MITSOPOULOU ► DFT Studies on the
12:25	Mechanisms of Hydrogen Evolution Catalysed by Transition
	Metal Complexes, University of Athens, Greece

12:55	YURI MASTRIKOV ► Water adsorption on the stepped
	TiO ₂ -terminated (001) SrTiO ₃ surface, University of Latvia, Latvia

	QIUHUA LIANG > Monolayer Nitrides Doped with Transition
3:25	Metals as Efficient Catalysts for Water Oxidation: The
	Singular Role of Nickel, Eindhoven University of Technology,
	The Netherlands

3:55	ISKRA KOLEVA ➤ DFT Modelling of Structure and
	Reducibility of Cerium Dioxide Nanoparticles Doped by
	Zirconium, University of Sofia "St. Kliment Ohridski", Bulgaria

14:25 CONCLUDING REMARKS

2:25 CONFERENCE CLOSING

LOCAL ORGANIZING
COMMITTEE:
Francesc Viñes, IQTCUB
Konstantin Neyman, ICREA & IQTCUB
Francesc Illas, IQTCUB

NOTE:

The speakers are kindly requested to leave around 10 minutes for questions/comments