

# Virtual Workshop

## « Chemistry of halide perovskites »

Morning 25<sup>th</sup> November 2021



Hybrid metal halide perovskites have recently attracted the attention of chemists and physicists owing to interesting optoelectronic properties. Controlling the chemistry of these materials is of very high importance to tune the exciton properties and reach new records for photovoltaic and LED efficiencies. This workshop will provide a platform to share the knowledge in the chemistry of halide perovskites (new materials, control of the microstructure, film crystallization, ...) and promote discussions on the synthesis and characterization of this emerging class of materials.

Romain Gautier and Nicolas Mercier

### Program

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| 9h15  | Introduction  |
| 9h30  | <i>“The Control of Perovskite Film Crystallization and Growth Direction to Target Homogeneous Monolithic Structures”</i><br><b>Thierry Pauporté</b> , Chimie ParisTech  |
| 10h00 | <i>“Bismuth halide perovskites confined in the mesoporous matrices”</i><br><b>Dimitry Aldakov</b> , CEA Grenoble  |
| 10h30 | <i>“Design and Characterization of highly luminescent multinary metal halides”</i><br><b>Aymen Yangui</b> , Chalmers University of Technology   |
| 11h00 | Coffee break  |
| 11h30 | <i>“Black phase stabilisation study in halide perovskite thin films by 2D Cs<sub>2</sub>PbCl<sub>2</sub>I<sub>2</sub> addition”</i><br><b>Christophe Tenailleau</b> , CIRIMAT Toulouse  |
| 12h00 | <i>“Structural phase transitions in the layered organic-inorganic hybrid perovskites (C<sub>6</sub>H<sub>11</sub>NH<sub>3</sub>)<sub>2</sub>[PbX<sub>4</sub>] (X=I,Br)”</i><br><b>Sébastien Pillet</b> , Université de Lorraine |
| 12h30 | Conclusion  |