

Session Program

13-17 Sept 2021

**EUROPEAN CONGRESS AND EXHIBITION ON
ADVANCED MATERIALS AND PROCESSES -
EUROMAT 2021**

A5_Materials for photonics and optics

Virtual

Thursday 16 September

16:40

A5_Materials for photonics and optics: A5_1_Opening session: Plasmonics

Session | **Location:** Room 1

16:40-17:20

Hybrid Nanomaterials and Platforms for Plasmonic Catalysis (Highlight)

Speaker

Prof. Emiliano Cortes

17:20-17:40

Segmented Plasmonic Nanoantennas for Surface-Enhanced Raman Spectroscopy and Strong Coupling to Molecular Vibrational Modes

Speaker

Mr Robert O'Meara

17:40-18:00

Super-Resolution Mapping of a Chemical Reaction Driven by Plasmonic Near-Fields

Speaker

Ruben Hamans

18:00

Friday 17 September

09:50

A5_Materials for photonics and optics: A5_2_Quantum photonics

Session | Location: Room 1

09:50–10:30 Molecular Quantum Photonics (Highlight)

Speaker

Dr Alex Clark

10:30–10:50

Stabilisation and Tuning of Quantum Emitters in mono- and few layer hBN

Speaker

Mr Callum Stewart

10:50–11:10

An alignment-free tuneable microcavity for solid-state quantum emitters

Speaker

A. Götz

11:10–11:30

The Effect of Nano-Bipyramid Size on Rabi Splitting Strength when Coupled to MoS_2

Speaker

Ms Julia Lawless

11:30

11:50

A5_Materials for photonics and optics: A5_3_Emerging ceramic and semiconductor materials for photonics

Session | Location: Room 1

11:50–12:10 Preliminary studies on the photoluminescence of Eu:BNBT ceramics

Speaker

Dr Giovanna Canu

12:10–12:30

Synthesis and assessment of a new micro-structured fluorescent sol-gel architecture intended for optical sensing

Speaker

Ms Ibtihel Marzouk

12:30–12:50

First ZnGa_2O_4 Transparent Ceramics

Speaker

Claire Mével

12:50

14:40

A5_Materials for photonics and optics: A5_4_Molecular photonic materials

Session | Location: Room 1

14:40–15:20

Energy relaxation between polaritonic and molecular centered states in organic electronics related systems

Speaker

Prof. Karl Börjesson

15:20–15:40

Exciton-to-trion conversion as a control mechanism for valley polarization in a two-dimensional semiconductor

Speaker

Mr Joris Jip Carmiggelt

15:40–16:00

Nanographene emitters for sustainable light-emitting electrochemical cells

Speaker

Dr Elisa Fresta

16:00

16:40

A5_Materials for photonics and optics: A5_5_Hybrid nanomaterials for photonics

Session | Location: Room 1

16:40–17:20

Controlling light-matter interactions with hybrid metal-dielectric metamaterials (Highlight)

Speaker

Dr Nicolò Maccaferri

17:20–17:40

Dynamic Tuning of Coupled Emitter-Plasmonic Systems using Thin Film Vanadium Dioxide

Speaker

Mr Stephen Cunningham

17:40–18:00

CMOS-compatible Nanometre-Scale Germanium Photodetector with Tunable-Polarity Sensitivity

Speaker

Mr Zehao Song

18:00–18:20

Laser-microstructured ZnO/Si heterojunction photodetectors

Speaker

Mr Georgios Chatzigiannakis

18:20