

# EUROMAT 2021

EUROPEAN CONGRESS AND EXHIBITION  
ON ADVANCED MATERIALS AND PROCESSES

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GRAZ, AUSTRIA

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## Area A

### Symposium A5

<b>Materials for Photonics and Optics</b>		
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<b>Abstract</b>		
<p>This symposium will address emerging material challenges in nanophotonics to meet current trends in plasmonics, quantum devices, metasurfaces, optoelectronics, photocatalysis, sensing, photovoltaics and nanoscale imaging.</p> <p>Experimental and theoretical works related to, but not limited to, the topics listed below are welcome:</p> <p><b>Topics include:</b></p> <ol style="list-style-type: none"><li>1. Quantum nano-optics and nanoantennas</li><li>2. Ultrafast nanophotonics</li><li>3. Vacuum-field catalysis</li><li>4. Emerging nanophotonic photocatalyst materials</li><li>5. Atomically-resolved microscopy for nanophotonic materials</li><li>6. 2-d material platforms</li><li>7. Novel materials for light sources and detectors</li><li>8. Self-assembled nanophotonic materials</li><li>9. Nanomaterials for bio-imaging</li><li>10. Machine learning in photonic material discovery</li><li>11. Light-matter interactions on the nanoscale</li><li>12. Chiral and magnetoplasmonic materials</li><li>13. Solid-state quantum emitters</li></ol>		