



FLAGSHIP INITIATIVE
**ENGINEERING
MOLECULAR SYSTEMS**



**UNIVERSITÄT
HEIDELBERG**
ZUKUNFT
SEIT 1386

COLLOQUIUM ENGINEERING MOLECULAR SYSTEMS

The next speaker of the virtual colloquium series “Engineering Molecular Systems” at **October 11th 2021** at 5 p.m. (CET) hosted by the Flagship Initiative Engineering Molecular Systems of Heidelberg University will be Eva Blasco from Heidelberg University.

4D PRINTING OF FUNCTIONAL MATERIALS WITH LIGHT: TOWARDS LIFE-LIKE BEHAVIOURS



Eva Blasco

Heidelberg University
Institute of Organic Chemistry
Centre for Advanced Materials

Oct 11th 2021
5 pm CET
Zoom



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ABSTRACT:

4D printing has gained much attention during the last years and become a promising tool for the fabrication of dynamic and adaptive structures. While great progress has been made at the macroscale, the continuous miniaturization of today's devices has tremendously increased the demand for manufacturing at the smaller scales. In this lecture, I will focus on the current approaches for 4D printing at the micro- and nanoscale. Special attention will be paid to the design of inks based on stimuli responsive materials.[1] The challenges as well as the potential and perspectives of the field of 4D microprinting will be highlighted, too.

[1] C. A. Spiegel, M. Hippler, A. Münschinger, M. Bastmeyer, C. Barner-Kowollik, M. Wegener, E. Blasco. 4D Printing at the Microscale; *Adv. Funct. Mater.* **2020**, 30, 1907615.

PLEASE REGISTER FOR THE ZOOM-WEBINAR USING THE FOLLOWING LINK:

[HTTPS://ZOOM.US/WEBINAR/REGISTER/WN_NBW3AWYTEKHR_CIGBJSIW](https://zoom.us/webinar/register/WN_NBW3AWYTEKHR_CIGBJSIW)