

# Cellulosic Materials colouring with no ink or dyes

**Helena Godinho**

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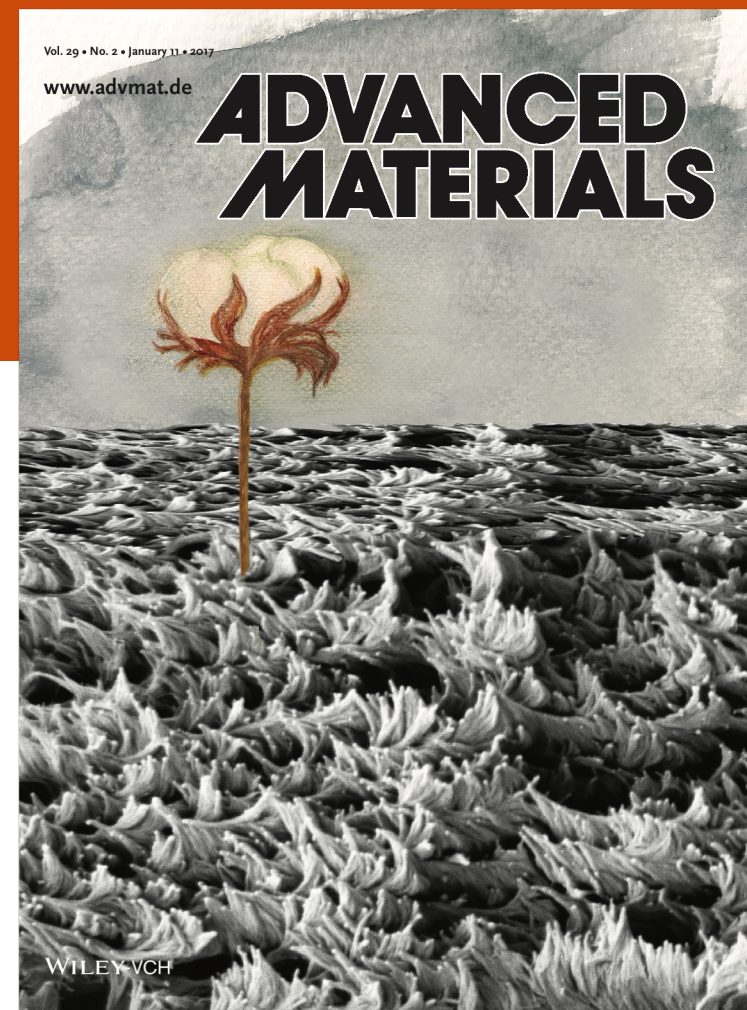
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Faculdade de Ciências e Tecnologia  
Universidade Nova de Lisboa

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Helena Godinho is Vice-President of International Liquid Crystal Society, was invited, as overseas lecturer by the British Liquid Crystal Society in 2016, is head of the Soft and Biofunctional Materials Group and Vice-director Research Centre CENIMAT/I3N in FCT/UNL. She has a D.Sc, PhD and MSc degrees in Materials Science from FCT/UNL and a graduation in Chemical Engineering from IST, University of Lisbon. She was a Nato/Invotan fellow at the Laboratoire de Physique de la Matière Condensée at Nice University in France during her PhD. Her research is focused on aspects of the molecular, mesoscopic and macroscopic properties and behavior of soft materials and complex fluids, mainly liquid crystals (LC) and cellulose-based systems. In addition, she is interested in the

modification and characterization of cellulose micro/nano rods. She is also concerned in cellulose-based biomimetics and their applications. The development of LC based light shutter sensors, which can be used as smart windows or dynamic scattering layers for solar cells are also among her interests. She is involved in European as well as in National projects and at the present she is the responsible for the Portuguese team of the M-ERA-NET “Fabricating cellulose nanocomposites for structural coloration” project. Recent publications include “Sensing surface morphology of biofibers by decorating spider silk and cellulosic filaments with nematic microdroplets” (PNAS, 2016) and “Mind the microgap in iridescent cellulose nanocrystal films” (Advanced Materials, 2017).



*Mind the microgap in iridescent cellulose nanocrystal films*