Strong light-matter coupling in organic semiconductors for efficient lasers, LEDs, and optical filters

M. C. Gather[1,2*]
[1]*Humboldt Centre for Nano- and Biophotonics, Department of Chemistry and Biochemistry, University of Cologne, Germany*
[2] *SUPA School of Physics and Astronomy, University of St Andrews, U.K.*
*Email: malte.gather@uni-koeln.de

Biography (Free format, approximately 10 lines)

Prof. Malte C. Gather is Humboldt Professor and founding director at the Centre for Nano- and Biophotonics at University of Cologne and holds a co-appointment at University of St Andrews. His research interests are at the interface of organic electronics and biophotonics, with particular focus on OLED optics, strong light-matter coupling, implantable OLEDs and organic lasers. He studied physics and material sciences at RWTH Aachen University and Imperial College London and received his PhD from University of Cologne in 2008. He previously worked at University of Iceland, Harvard University, TU Dresden and University of St Andrews. Prof. Gather has received numerous awards and recognitions, including Starting, Advanced and Proof of Concept Grants from the European Research Council (ERC), the Alexander von Humboldt Professorship (Germany's most highly endowed research prize), the Institute of Physics Paterson Medal and Prize, the Rudolf-Kaiser-Preis in Experimental Physics, and somewhat unusually an entry in the Guinness Book of World Records (for the first realization of a 'living laser').