

Enhanced light emission and harvesting via disordered plasmonic metasurfaces

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Abstract: Disordered arrays of plasmonic colloids provide a means for broadband optical absorption, due to equipartition of energy and convergence of internal mode lifetimes. We examine such systems from the viewpoint of energy harvesting and enhanced light extraction.

Biography: Stefan Maier is currently the Head of School of Physics and Astronomy at Monash University, and the Lee-Lucas Chair in Experimental Physics at Imperial College London. He graduated from Caltech with a PhD in Applied Physics in 2003 before relocating to the UK. His research is in the area of nanophotonics and plasmonics, with a particular focus on light confinement and energy conversion below the diffraction limit. He is a fellow of Optica and has received various prizes for his work, most recently the ACS Nano 2020 Lectureship Award. Up to this point in time twenty alumni of his group went on to academic positions all over the world.



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