

Graphene metamaterials for integrated photonic devices

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Abstract: We developed scalable graphene metamaterials show attractive optical and thermal properties. Through patterning with advanced laser nanoprinting technique, functional photonic devices with ultrathin, light weight and flexible nature have been demonstrated promising exciting opportunities for integrated photonics.

Biography: Professor Baohua Jia is a Future Fellow at RMIT University. Before joining RMIT, she was the Founding Director of Centre for Translational Atomaterials at Swinburne University of Technology. Her research focuses on the fundamental light and nano-and atomaterial interaction, in particular, laser manipulation of two-dimensional materials has led to the design and fabrication of functional nanostructures and nanomaterials for effective harnessing and storage of clean energy from sunlight and laser nanoprinting towards fast-speed all-optical communications and intelligent manufacturing. She has co-authored > 260 publications and delivered more than 60 keynote/invited talks at prestigious international conferences and serves multiples professional committees.

