

Integrated Microwave Photonic Brillouin Processor

David Marpaung

CUDOS, School of Physics, University of Sydney, Sydney, NSW 2006, Australia

E-mail: david.marpaung@sydney.edu.au

Abstract: We discuss the recent advances of on-chip stimulated Brillouin scattering for signal processing, including for tunable RF filtering, regeneration of optical frequency combs, and for generation of narrow linewidth laser on a hybrid silicon chip.

OCIS codes: (190.0190) nonlinear optics; (290.5900) Scattering, stimulated Brillouin; (060.5625) Radio Frequency photonics