

Review of: "Designing and modeling microwave photonic spectral filters based on optical microcombs"

Ali Shahidinejad¹

¹ Deakin University

Potential competing interests: No potential competing interests to declare.

The paper is generally well-crafted and engaging.

It is essential to specify the simulation software used as the results presented are based on simulation work.

The paper lacks information on the fabrication and measurement aspects, crucial for real-world application implementation.

To illustrate the practical utility, it is suggested to include specific applications of the presented filter.

Evaluate the strengths and weaknesses of microcomb-based MWP transversal filters compared to traditional filtering methods based on accuracy, efficiency, and frequency range using the presented simulation results.

Explore specific areas for future research on microcomb-based MWP transversal filters and discuss potential optimizations