

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

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Potential competing interests: No potential competing interests to declare.

The article is very well written and formatted. The quality of the figures is excellent.

The paper provides a comprehensive, didactive summary of the principle of operation and the state of the art of microwave transversal filters based on photonics technology that helps in understanding their advantages and main limitations.

If there is anything that may be reviewed, would be the closure of Section III. Without prior explanation, the author introduces about 60+ references to other works in the field, stating that this work "has a wide applicability". I found this a bit troubling, since it is quite subjective to determine if all of these references are really needed or if it is just a way of favouring fellow researchers with cross-citations. Also typically, or at least what I am used to, one includes the relevant references when introducing the topic (as already did in the first section, with more than 40 references) and of course some references at the end of potential applications should be expected, but including almost a half of the total reference list in the paragrapgh before the conclusion is a bit suspicious. It would be great if the author could elaborate briefly on the need for all these references, as well as to improve the cohesion of these references with the rest of the text.