



## Miniature Optoelectronic Resonators and Oscillators

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### Message from the Guest Editor

Dear colleagues,

The idea of developing oscillators, which can potentially replace electric oscillators like those based on quartz, is interesting. Since their introduction almost thirty years ago, optoelectronic oscillators (OEO) are a family of potential candidates whose performance can be expected to compete with more conventional oscillators, and even provide solutions which are less sensitive to external parameters. After years of research, considerable progress has been made in the wake of the pioneers in this field. Making miniature OEOs is a constantly improving quest. There are many challenges that researchers must overcome to achieve their goals. The miniature OEOs for the most efficient applications must satisfy conditions such as staying in very low phase noise levels, while occupying a low volume. For miniature optoelectronic resonators and OEOs intended to be integrated, it is fundamental to design and manufacture relatively robust structures on chips while ensuring high quality coefficients and consequent yields.





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