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Nanoscale-Engineered InGaN/GaN Quantum Wells via Machine Learning Design

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We present the machine learning design of nanoscale-engineered InGaN-based QW with ten sublayers for enhanced performance based on a heuristic algorithm. Such a design approach can achieve significant improvements in the material gain characteristics and current density of QW.

Author: TANSU, Nelson

Co-authors: Dr FU, Hanlin; Dr OGIDI-EKOKO, Onoriode N.; LIANG, WEN

Presenter: TANSU, Nelson

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