## Widely tunable type-II interband cascade laser

S. Suchalkin, M. V. Kisin, S. Luryi, G. Belenky, J. Bruno, F. J. Towner, and R. Tober *SUNY–Stony Brook, Maxion Technologies Inc., Army Research Lab–Adelphi, U.S.A.* 

We discuss a novel ultra-wide, voltage tunable type-II mid-IR interband cascade laser. Its novel design has a charge accumulation layers outside of the optically active quantum wells that unclamps the electron-hole concentrations and facilitates above-threshold Stark shifts. Our results demonstrate laser tuning of 120 nm (120 cm<sup>-1</sup>).