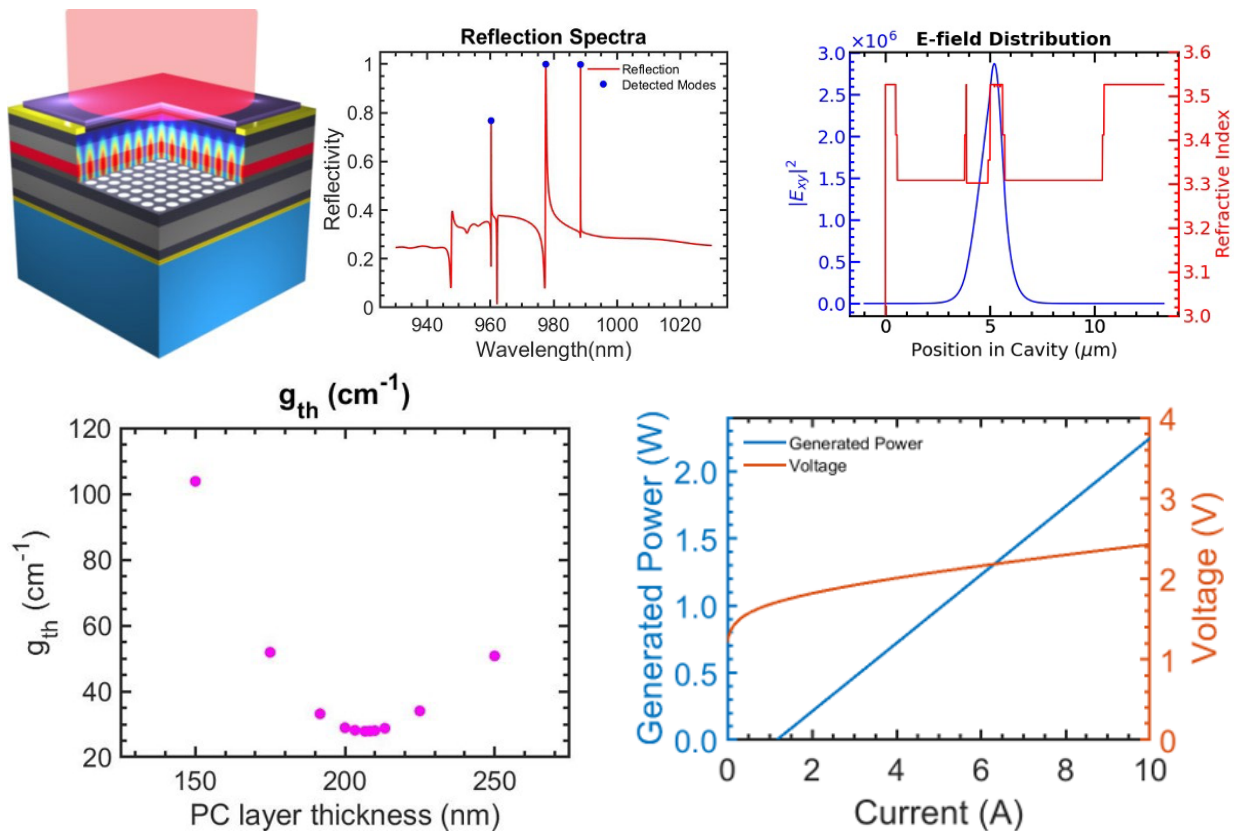


## PCSELSim: PCSEL Modeling and Simulation Tool

Since the initial proposal in 1999 by S. Noda et al., photonic crystal surface emitting lasers (PCSELS) have shown to achieve large area, coherent lasing with a narrow, single mode beam. Owing to their unique orthogonal electrical/optical cavity scheme, PCSELS have emerged as one of the most promising platforms for high power diode lasers with potential applications in LiDAR, free space communications, and data/consumer electronics.

PCSELSim is a modeling and simulation tool developed by Semergytech. PCSELSim is an all-in-one modeling and simulation tool that aims to formulate the design of PCSELS into one comprehensive platform. PCSELSim is composed of four connected modules for automatic optimization of PCSEL design and estimation of device performance.



For more information, please email: [info@semergytech.com](mailto:info@semergytech.com)