

Table 3

<i>Wafer</i>	<i>SP waveguide</i>	<i>J_{th} (kA/cm²)</i>	<i>P_{max} (mW)</i>	<i>T_{max} (K)</i>
<i>A\</i>	Ag	0.7316	55.0	96
<i>A\</i>	Au	0.7324	26.7	83
<i>A2</i>	Ag	0.8596	69.3	97
<i>A2</i>	Au	0.8643	49.5	92
<i>B\</i>	Ag	0.2282	84.8	107
<i>B\</i>	Au	0.2320	70.4	102
<i>B2</i>	Ag	0.5365	79.0	96
<i>B2</i>	Au	0.5614	53.0	95

Table 3. Key characterisation results of QCLs with Ag- and Au-based surface-plasmon (SP) waveguides. J_{th} is the threshold current density at 10 K, P_{max} is the maximum peak output power at 10 K, and T_{max} is the maximum operating temperature.