**Self-aligned oxidised porous silicon optical waveguides with reduced loss**

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**Abstract.** A report is presented into the fabrication of self-aligned oxidised porous silicon optical waveguides, the optical losses of which at both visible and infrared wavelengths are significantly reduced, to around the 1 dB cm/sup -1/ limit widely considered as critical for application success.

**Keywords:** silicon, self-aligned oxidised porous silicon optical waveguide, fabrication, optical loss.

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