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Optimising CVD boron doped diamond with a novel 3D-printed titanium Faraday cage for an all diamond superconducting device platform

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Here we report the optimization of the growth of superconducting boron doped diamond on insulating diamond substrates via microwave plasma chemical vapor deposition (MPCVD) using a 3D-printed titanium Faraday cage, which leads to superior uniformity in growth and boron incorporation.

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