Tuning of Conversion and Optical Emission by Electron Temperature in an Inductively-Coupled CO$_2$ Plasma

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Figure S1 Emission spectrum from CO₂-Ar mixed plasma recorded at different supplied power (30 W, 150 W, 300 W). The Ar flow was fixed at 1000 sccm and CO₂ flow was fixed at 20 sccm and 100 sccm, respectively. The pressure was fixed at 14±1 Pa.
Figure S2 a) Emission spectrum of the CO \(b^3\Sigma^+ - a^3\Pi\), O I \(3p^5P \rightarrow 3s^5S^o\) (777 nm) and O I \(3p^5P \rightarrow 3s^5S^o\) (844 nm) transitions at different pressure. b) integrated emission intensity of 1-0, 0-0, 0-1 transition of CO \(b^3\Sigma^+ - a^3\Pi\) system and O I \(3p^5P \rightarrow 3s^5S^o, 3p^5P \rightarrow 3s^5S^o\).