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Low temperature plasma solutions to climate change: renewable energy, cleaning environment, smart agriculture, and better health

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Low temperature plasmas (LTPs) are plasmas with relatively low plasma density and energy (typically <10 eV) have been playing critical roles in technology advancement in microfabrication, light sources, and other established industrial applications. With the versatility and relative low capital cost in the technology development, LTPs present a myriad of opportunities to technology innovation and advancement in identifying solutions to climate change. The research activities that showcase these LTP-based technology developments are categorized as four areas: renewable energy, cleaning environment, smart agriculture, and better health, and are sampled from the LTP community and discussed here.

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