Title: Conception of a novel spray tower plasma-reactor in a spatial post-discharge configuration: pollutants remote treatment

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Highlights

- A novel plasma GAD reactor was developed to treat polluted liquids in a spray tower
- Hydrodynamics and mass transfer characteristics were studied in the reactor
- Phenol, 4-Nitrophenol and catechol were successfully degraded
- The spatial-temporal post discharge is a novel concept used to degrade pollutants