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飞秒光丝激光雷达

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# 中国激光

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封面解读

封面呈现了飞秒光丝激光雷达用于大气污染探测的工作原理。飞秒激光成丝能够诱导大气污染物电离并辐射出指纹荧光。受空气热效应而产生的空气波导,证明了光丝具有穿云透雾的能力,并对荧光信号的传输产生影响,使其以一定的发散角传输至探测端。飞秒光丝激光雷达在大气污染探测方面具有远程、实时、多组分、多物态同步监测的优势。

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