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封面解读

封面主要呈现了光子计数激光雷达的工作原理。安装在跟踪平台上的光子计数激光雷达可实现对远距离高速非合作运动目标的高精度测距和测速。采用单光子探测器的激光雷达能够探测单个光子, 具有极高的探测灵敏度。在其激光回波点云中, 大量的噪声光子在时域上呈随机分布, 而目标的回波光子具有一定的连续性和关联性, 通过多次激光回波累加或者相关算法处理点云数据可以提取出目标的运动轨迹, 从而获得动目标的距离和速度信息。

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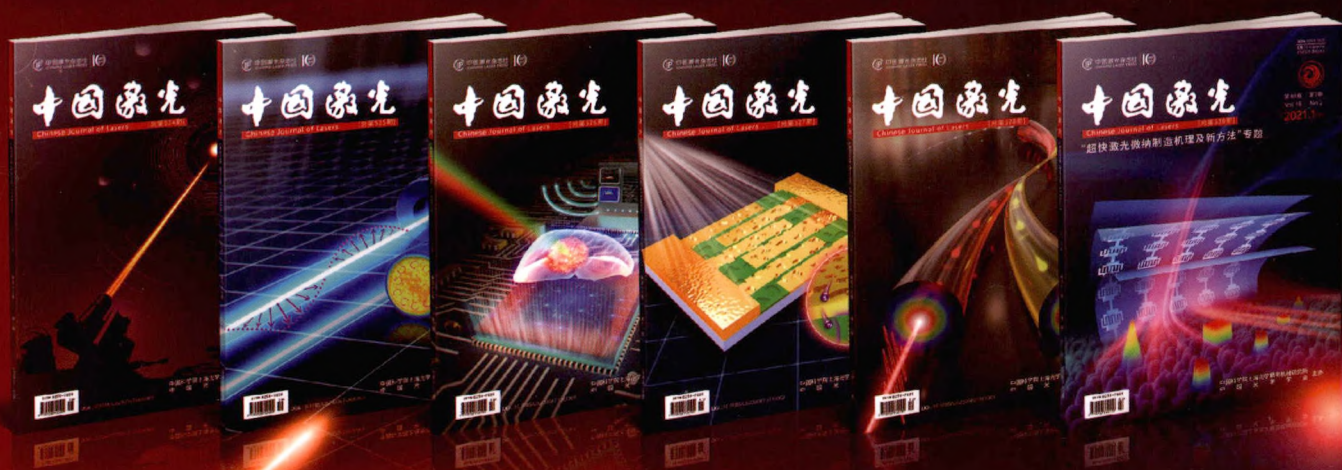
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