

Based on these advantages, Tour group first conducted laser ablation on the PI film using a commercial CO₂ laser source, resulting in the fabrication of laser-induced graphene (LIG). 28 After that, it has been found ...

are already widely deployed on the battlefield for targeting applications such as laser designation and range finding. Solid-state laser technology for DE applications has found a ... Directed ...

Ultrathin transition metal carbides with high capacity, high surface area, and high conductivity are a promising family of materials for applications from energy storage to ...

Energy Technology. In the future, high-power laser systems might play a role in electricity generation. Laser-induced nuclear fusion is investigated as a alternative to other types of ...

1 INTRODUCTION. The rapid depletion of fossil energy, along with the growing concerns for energy crisis and environmental pollution, has become a major world challenge at present. 1-4 ...

We work at the interface between physics, chemistry and engineering to develop the next-generation of novel laser sensors for identifying the chemical makeup of materials in real-time. ...

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This review provides a comprehensive overview of the progress in light-material interactions (LMIs), focusing on lasers and flash lights for energy conversion and storage ...

The laser beam is so coherent such that it provides extremely focused energy by converting laser into thermal energy, causes physical damage to the structure or material. ...

Processing of materials by ultrashort laser pulses has evolved significantly over the last decade and is starting to reveal its scientific, technological and industrial potential. In ...

For example, the miniaturized laser devices employed in field portable LIBS instruments cannot deliver sufficiently high laser pulse energy; examples include the Kigre MK ...

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Energy is essential in our daily lives to increase human development, which leads to economic growth and productivity. In recent national development plans and policies, numerous nations ...

Nanomaterials are known to exhibit a number of interesting physical and chemical properties for various applications, including energy conversion and storage, nanoscale ...

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