

Nano-scale Graphene, Graphite, and Charcoal based Saturable Absorbers for Passively Mode- Locked Fiber Lasers

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Location → **R833**
Dept. of Physics / Center for Condensed Matter
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All Are Welcome!

Abstract

Nano-scale carbon materials including graphene, graphite and charcoal powders based saturable absorbers are employed to passively mode-lock the Erbium doped fiber lasers. The key parameters and mechanisms contributed to the pulse shortening force in the Erbium-doped fiber lasers passively mode-locked by different nano-scale carbon powder based saturable absorbers will be discussed. Sub-500 fs pulse can be obtained with the use of all kinds of nano-scale carbon materials.

