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By using the plasmonic enhancement, the light-harvesting performance of graphene was boosted by 20 times without sacrificing any of its speed, they wrote in their study. Future efficiency could be improved even more, they said.

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"We expected that plasmonic nanostructures could improve the efficiency of graphene-based devices but it has come as a pleasant surprise that the

improvements can be so dramatic," said Alexander Grigorenko, an expert in plasmonics and a leading member of the team. "Graphene seems a natural companion for plasmonics."

Andrea Ferrari of Cambridge University's engineering department, who also worked on the team, said the findings show graphene's great potential in photonics and in developing electronic devices that channel and control light. He said the combination of its special optical and electronic properties with plasmonic nanostructures could be fully exploited.

(Reporting by Kate Kelland; Editing by Roger Atwood)

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