Energy dissipation and light emission in graphene

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Energy dissipation in nanoscale electronics has become an important subject in morden electronic industry and energy conversoin system. From this perspective, graphene with very high mobility and thermal conductivity, which are about ten times higher than silicon, is a very attractive nano-material to study energy dissipation in nano-electronics. I will present sudies for the light emission in graphene devices based on the controlling the heat dissipation.

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