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Fabrication of high-quality or highly porous graphene sheets from exfoliated graphene oxide via reactions in alkaline solutions

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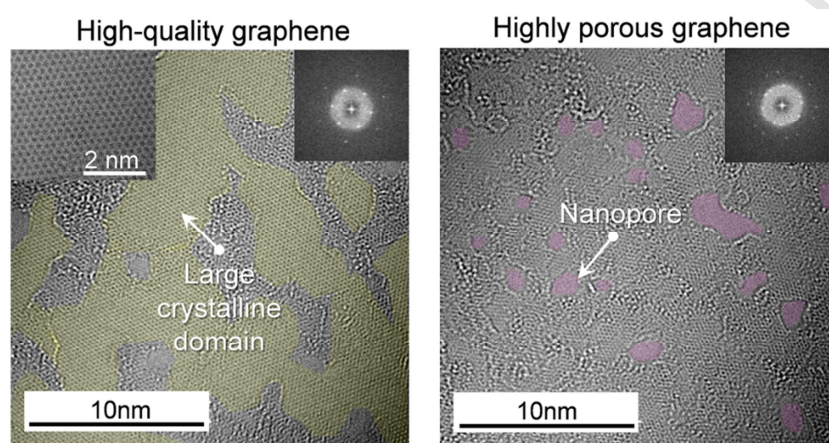
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Graphical abstract

High-quality or highly porous graphene nanosheets were rationally fabricated by oxidation degree-dependent transformations of graphene oxide in hot alkaline solution. These reactions were translated into exceptionally different electrical properties of reduced graphene oxide nanosheets and the different rheological properties of the corresponding pastes.



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