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Title: Moderately reduced graphene oxide as hole transport layer in polymer solar cells via thermal assisted spray process

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**Highlights:**

- Moderately reduced graphene oxide (GO) was prepared by thermal assisted spray process.
- With the increase of substrate temperature, more efficient removal of oxygen functional groups was observed.
- Polymer solar cells (PSCs) with spray coated GO at 400 °C exhibited highest efficiency of 3.71 %.

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