Nitrogen-Doped Graphene Ideal Flat, Semiconductive and Transparent Material for Various Devices

, s

> 3.0-



Transparency

Prof. Nagahiro SAITO (Nagoya University)

80 🖉

60

Resistivity

- 0.7-

ğ 0.6-

3. Characteristics of the Nitrogen-doped Hetero Graphene

Carrier Concentration

" Ĕ 0.9-

-8.0 <u>E</u>

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1. Back Ground

Time

5 min.

A certain Heteroatoms-Doped Graphene has unique characteristics and especially Nirtogen-Doped Graphene has been expected to have excellent characteristics. But there have not been any good methods to produce a "flat" Heteroatoms-Doped Graphene .

Method



Hole mobility

http://www.jst.go.jp/chizai/en

pressure