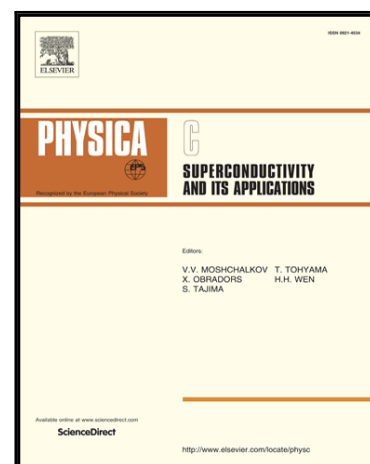


Effects of graphene oxide doping on the structural and superconducting properties of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$

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PII: S0921-4534(17)30244-7  
DOI: [10.1016/j.physc.2018.02.010](https://doi.org/10.1016/j.physc.2018.02.010)  
Reference: PHYSC 1253267



To appear in: *Physica C: Superconductivity and its applications*

Received date: 10 July 2017  
Accepted date: 28 February 2018

Please cite this article as: S. Dadras , S. Falahati , S. Dehghani , Effects of graphene oxide doping on the structural and superconducting properties of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$  , *Physica C: Superconductivity and its applications* (2018), doi: [10.1016/j.physc.2018.02.010](https://doi.org/10.1016/j.physc.2018.02.010)

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**Highlights**

- Graphene Oxide doping increased the oxygen contents in the YBCO compound.
- Graphene Oxide creates a better connection and more homogeneity between the YBCO grains.
- The lattice strain ( $\epsilon$ ) has increased with GO doping in YBCO compound.

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