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Electrical Transport and Magnetoresistance in Advanced Polyaniline Nanostructures and Nanocomposites

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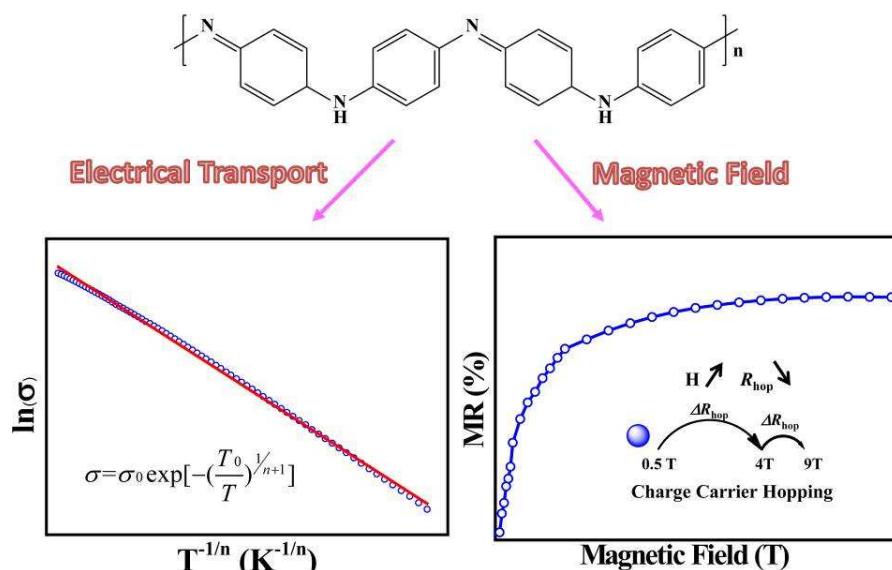
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## Graphical Abstract

### Polyaniline and Its Nanocomposites



### Highlights

1. The electrical transport mechanisms in advanced polyaniline (PANI) nanostructures and nanocomposites have been critically reviewed.
2. The current research status on giant magnetoresistance (GMR) in the PANI systems is presented with detailed examples.
3. The theoretical analysis of the GMR phenomena has been interpreted from different aspects focusing on forward interference model and wave-function shrinkage model.

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