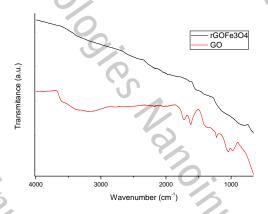
Reduced Graphene Oxide@Magnetite (rGO@Fe₃O₄): Characterization sheet

Reported data: FTIR Spectroscopy, Scanning Electron Microscopy, X-ray diffraction (XRD) and Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

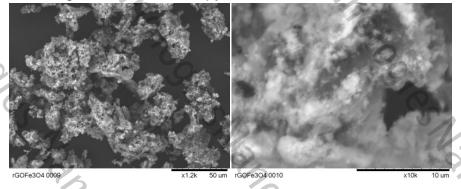
FTIR Spectroscopy: Attenuated Total Reflectance (ATR) logies Nano,



Assignment (cm⁻¹): for graphene oxide 1725 C=O (carbonyl/carboxy); 1620 C=C (aromatics); 1375 C-O (carboxy); 1224 C-O (epoxy); 1040 C-O (alkoxy). In comparison peaks due to oxygen functional groups are almost entirely removed in rGO@Fe₃O₄.

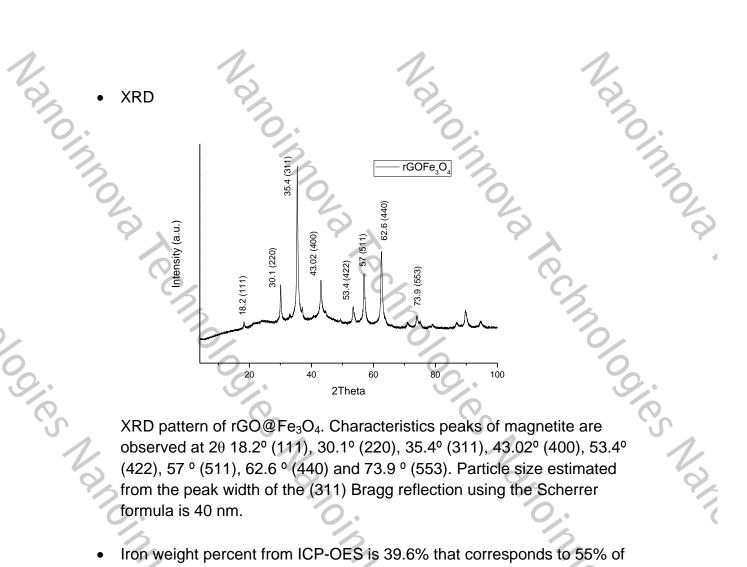
Scanning Electron Microscopy

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Modies 1/c



XRD pattern of rGO@Fe₃O₄. Characteristics peaks of magnetite are observed at 20 18.2° (111), 30.1° (220), 35.4° (311), 43.02° (400), 53.4° (422), 57 ° (511), 62.6 ° (440) and 73.9 ° (553). Particle size estimated ron weight _L Fe₃Q₄. from the peak width of the (311) Bragg reflection using the Scherrer formula is 40 nm.

Sis 39.65 5% c is technologies Nanoinnova tec. Iron weight percent from ICP-OES is 39.6% that corresponds to 55% of