Ink jet printed graphene oxide (GO) coplanar waveguide (CPW) structures for measurement of microwave propagation in GO

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— Chemically reduced graphene (CGR) has been successfully inkjet printed using a commercially available printer. The CGR with sheet sizes below 200 nm were dispersed in a mixture of water and ethanol. Coplanar waveguide (CPW) structures were deposited on CGR and plastic substrates, scattering (S) parameters were measured in order to extract material parameter for incorporation into simulation tools. Measurements and modeling of microwave propagation in graphene shall be presented.

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