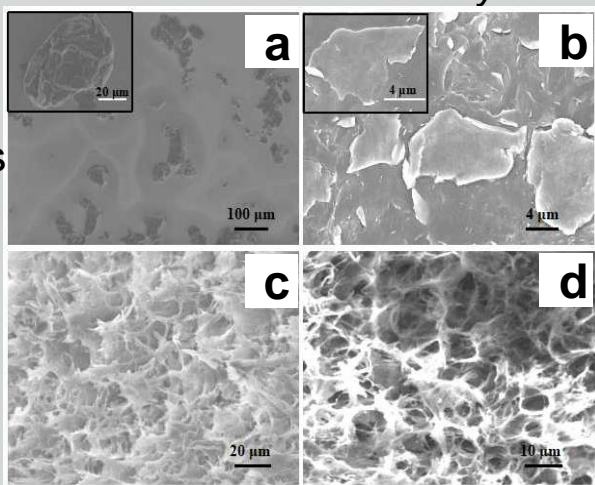


Yu Lei, Imane Boucenna, VeroniqueTh evenet, Alain Ponton

Mati re et Syst mes Complexes UMR 7057 CNRS & Universit  Paris Diderot

## Structure

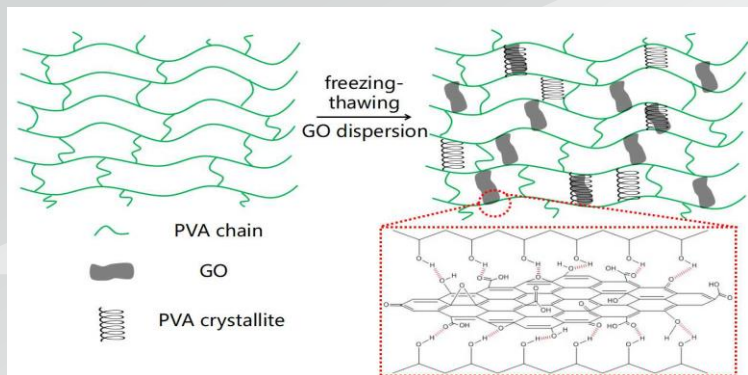
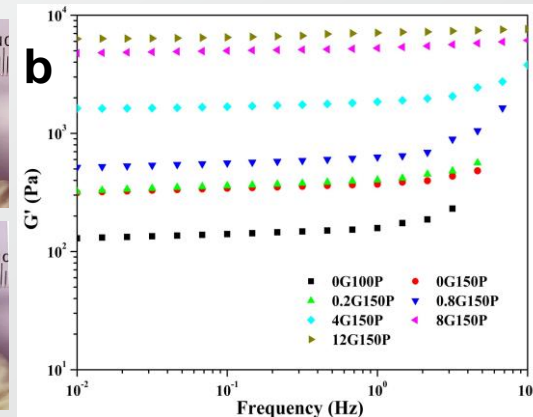
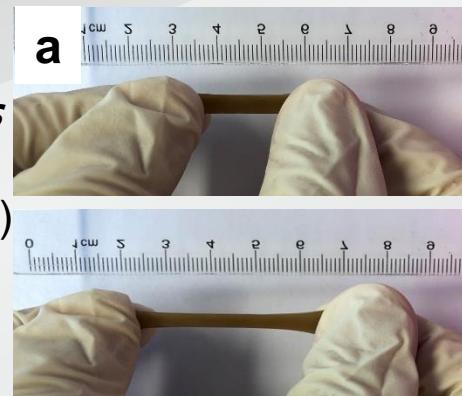
- a: graphite
- b: GO nanoparticles
- c: 0G150P
- d: 4G150P



xGyP: x mg/ml GO and y mg/ml PVA with same volume

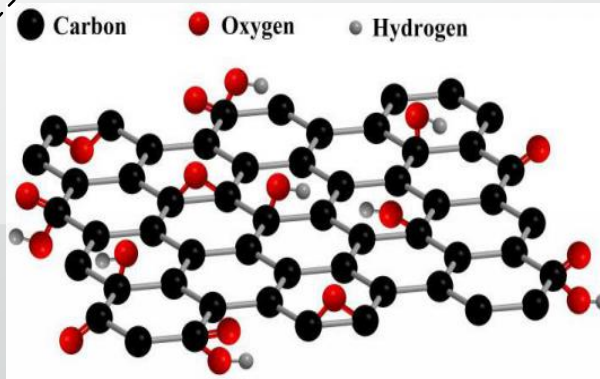
## Mechanical properties

- a: stretching to 66.6 % without breaking (8G150P)
- b: frequency sweep of different composites

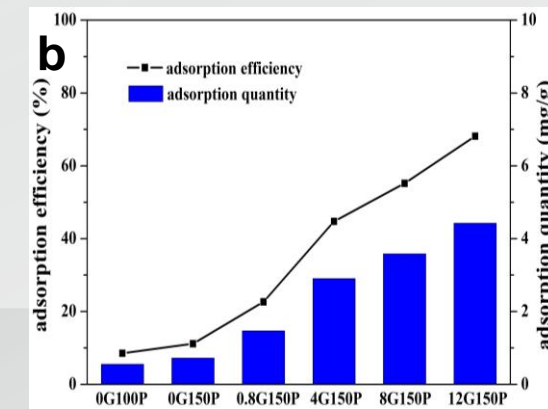
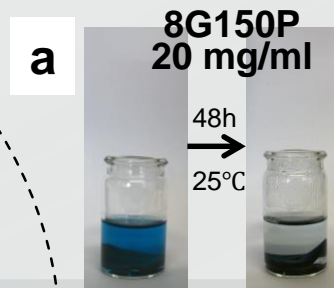


## Preparation

GO nanoparticles → Hummers method  
PVA/GO composite → freezing-thawing method



## graphene oxide (GO)



## Dye adsorption

a: scheme of adsorption of methylene blue  
b: adsorption efficiency and quantity of different composites (100 mg/ml)