

INCREASED TENSILE STRENGTH OF CARBON NANOTUBE YARNS AND SHEETS THROUGH CHEMICAL MODIFICATION AND ELECTRON BEAM IRRADIATION

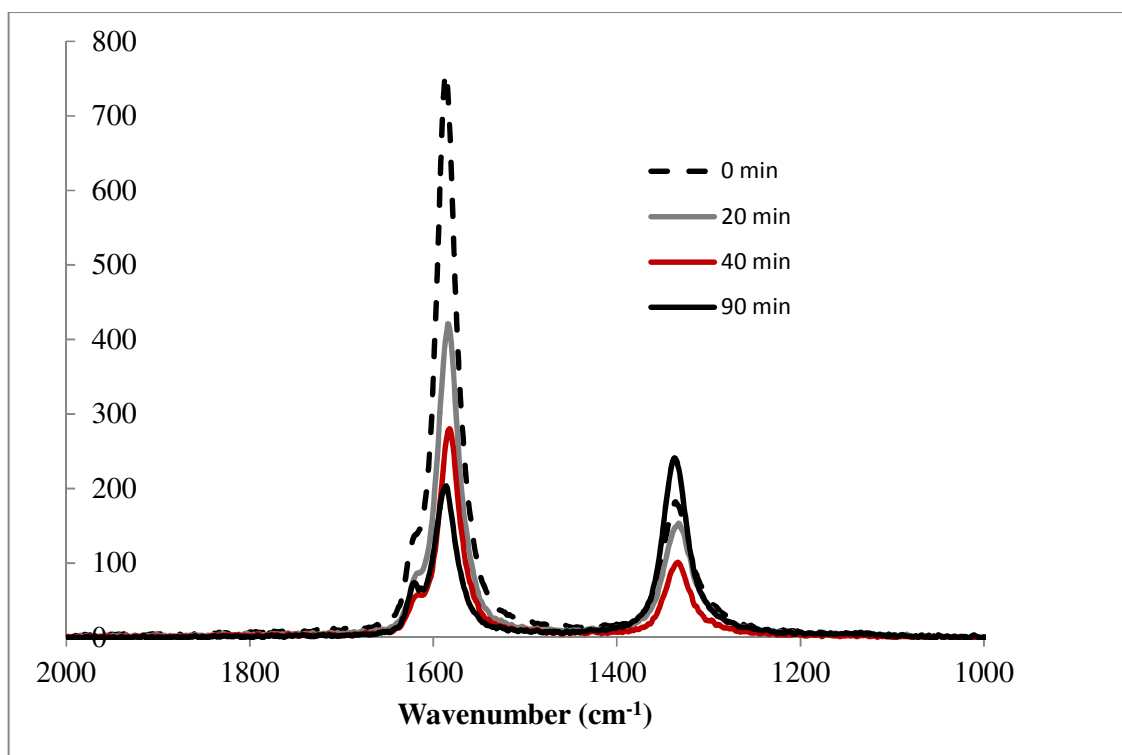
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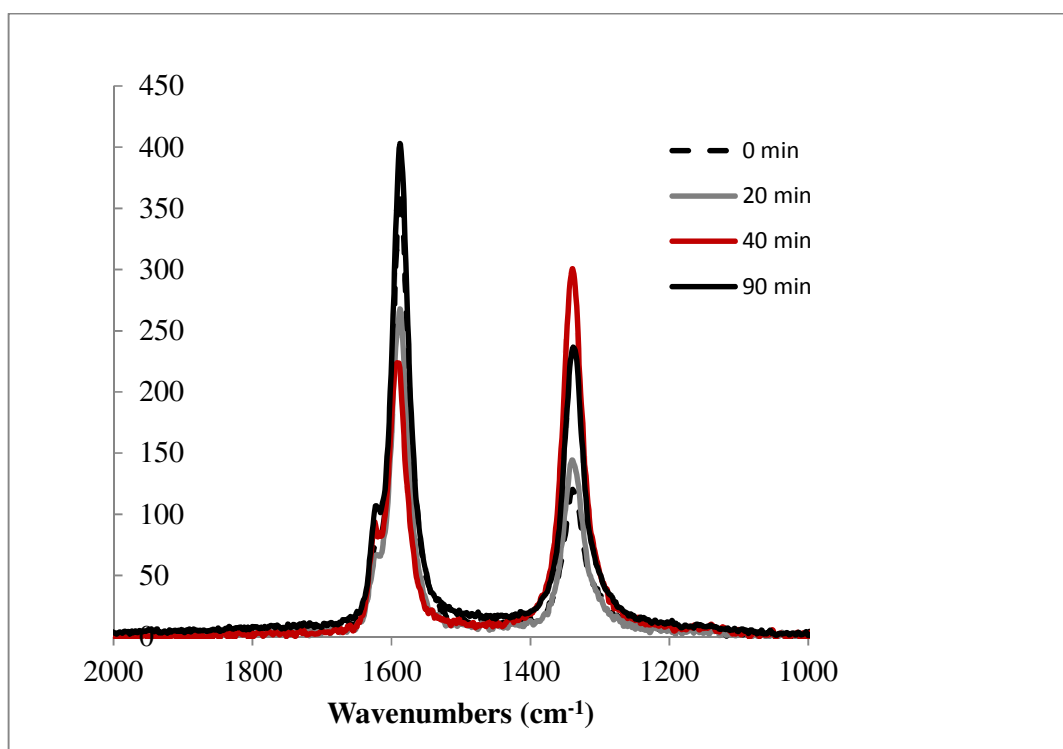
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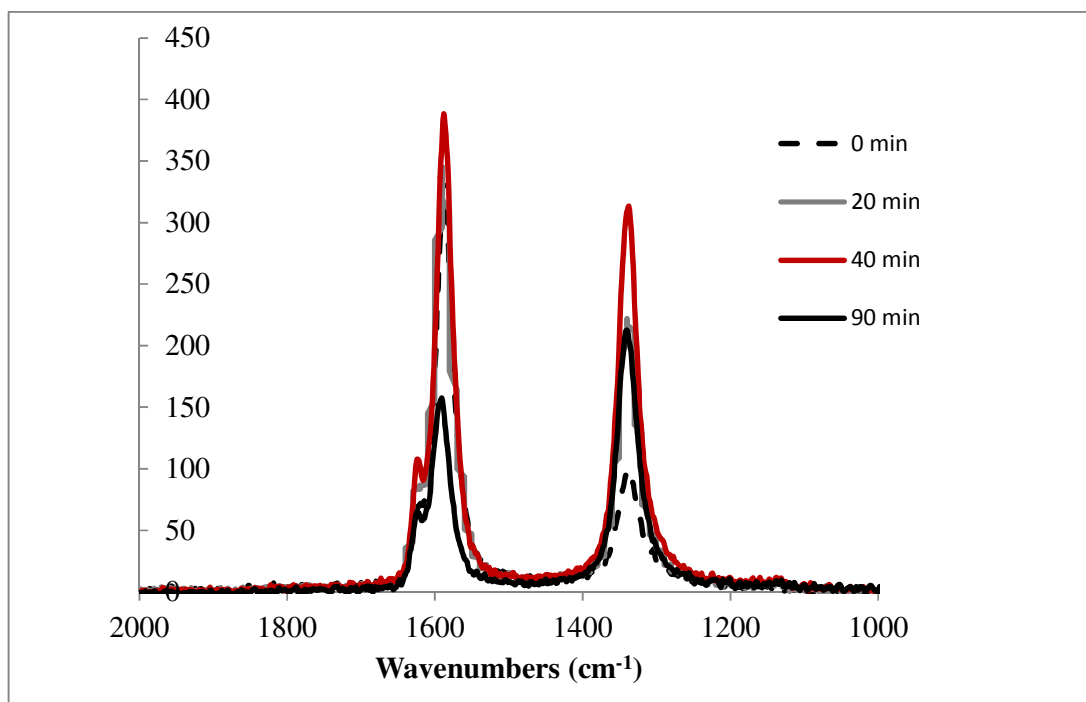
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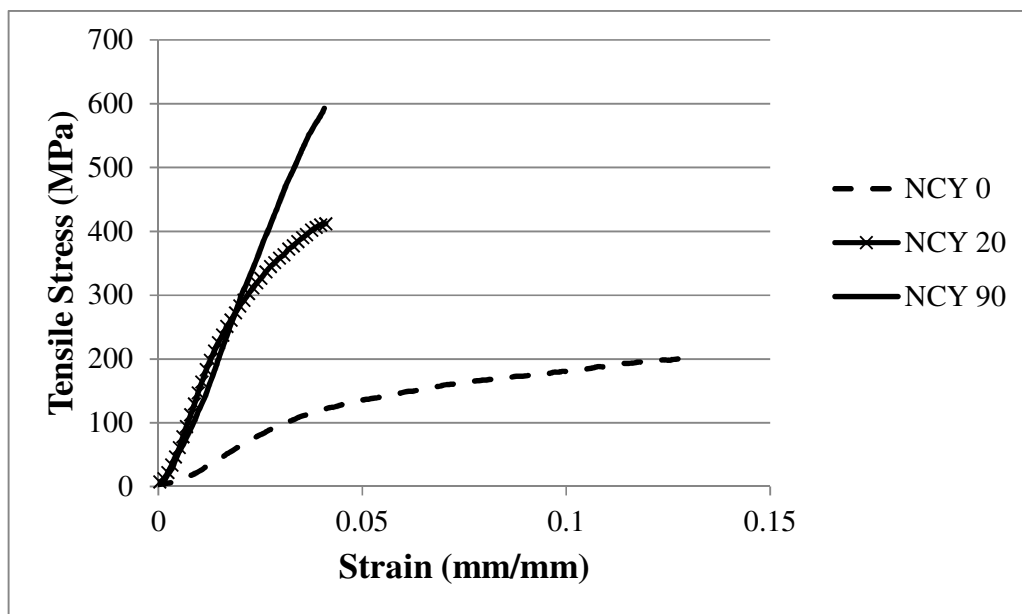
SI Figure: Effect of e-beam irradiation on the G/D ratio of as-received CNT sheet.



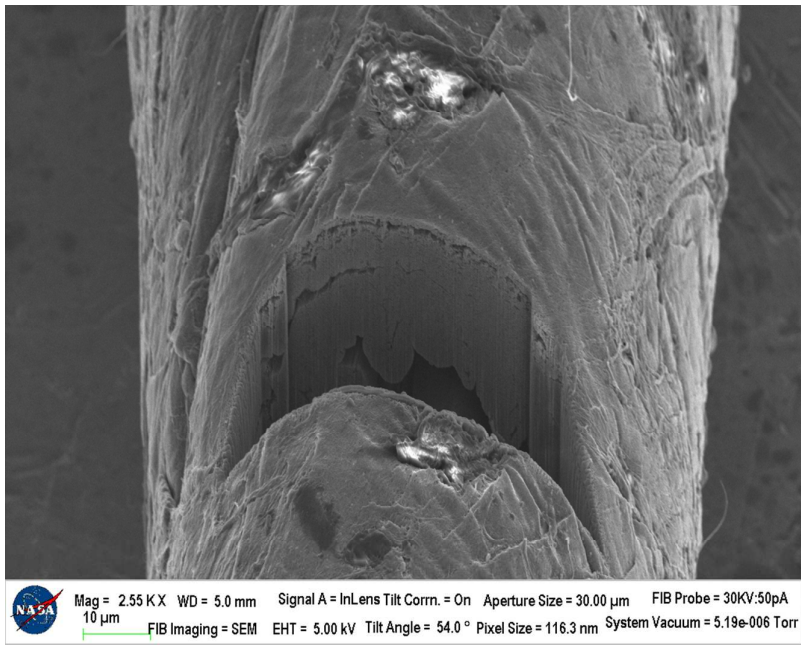
SI Figure: Effect of e-beam irradiation on the G/D ratio of 3-aminopropyl functionalized CNT sheet.



SI Figure: Effect of e-beam irradiation on the G/D ratio of -OH functionalized CNT sheet.



SI Figure: Stress-strain plots of as-received CNT yarn irradiated at 0, 20, and 90 minutes.



SI Figure: FIB microscopy image of as-received CNT yarn interior structure.