Synthesis of Multifunctional Copolymers of Poly(methylphenylsilane) with (R)-N-(1-phenylethyl)methacrylamide, Disperse Red 1 Methacrylate and Their Optical and Photoluminescence Properties

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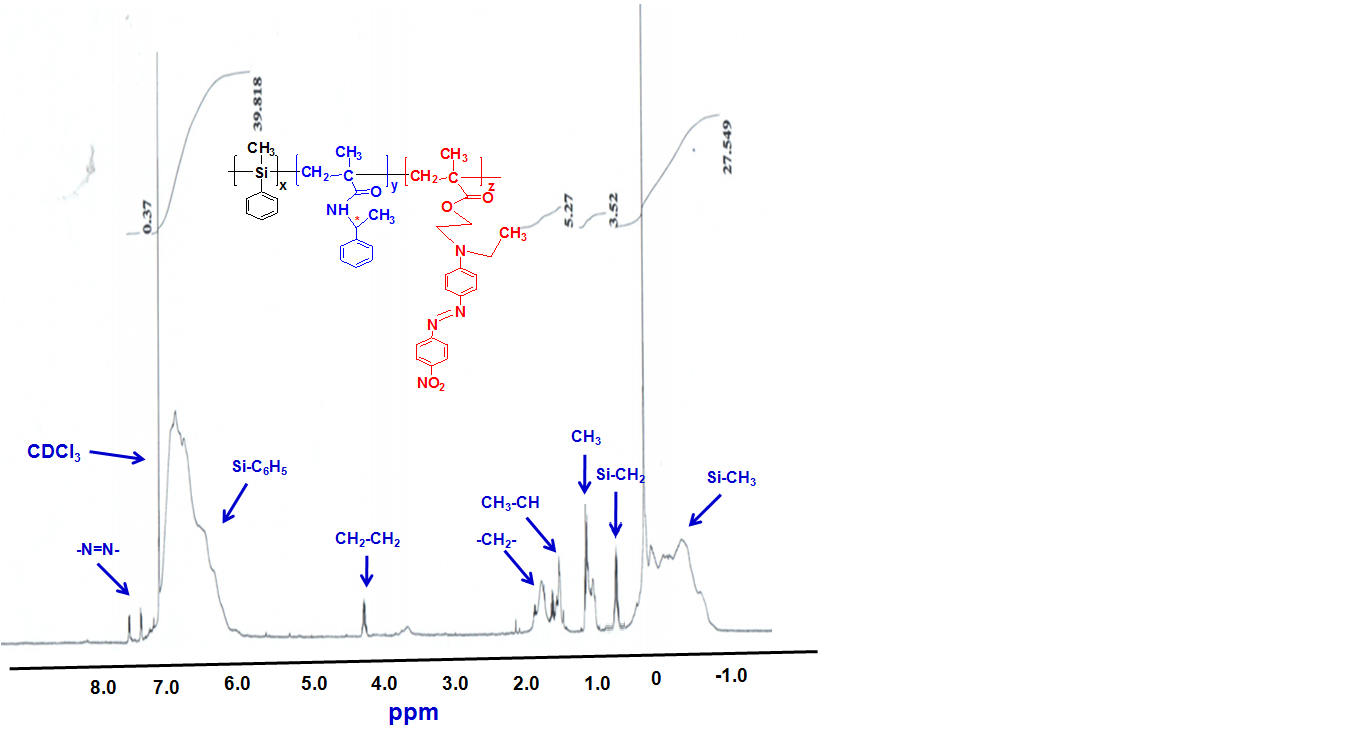
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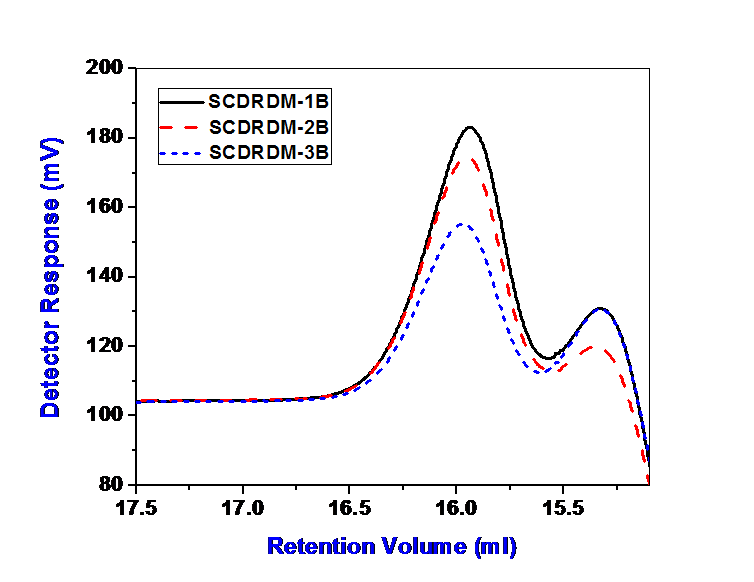
**Supplemental Materials**

**SCDRDM Com. Ana..tif**

# Figure 1: FTIR spectra of multifunctional chiral and photoactive polysilane copolymers

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**Figure 2**: NMR analysis of multifunctional polysilane (SCDRDM-2B)

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# Figure S 3: Combined GPC chromatograms of SCDRDM copolymers

**272 nm with Temp..tif**

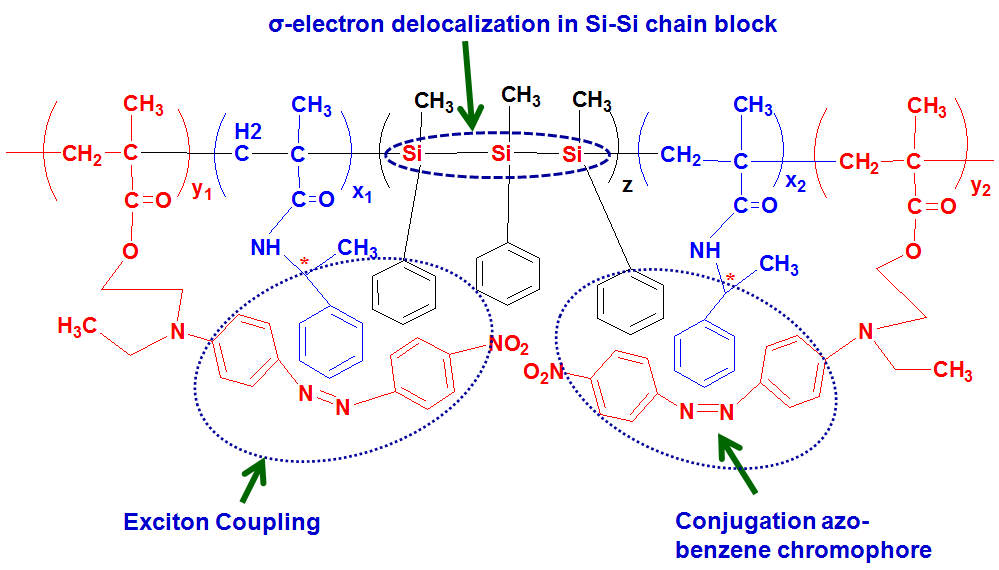
**Figure 4: Temperature versus electronic absorbance**

**330 nm with Temp.tif**

**Figure S 5: Temperature versus electronic absorption (at 330 nm due to Si-Si bond)**

# 475 nm with Temp.tif

# Figure S 6: Temperature versus electronic absorption (at 475 nm due to –N=N- group)

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**Scheme S 1: Plausible interaction of functional moieties in synthesized functional polysilanes (SCDRDM)**