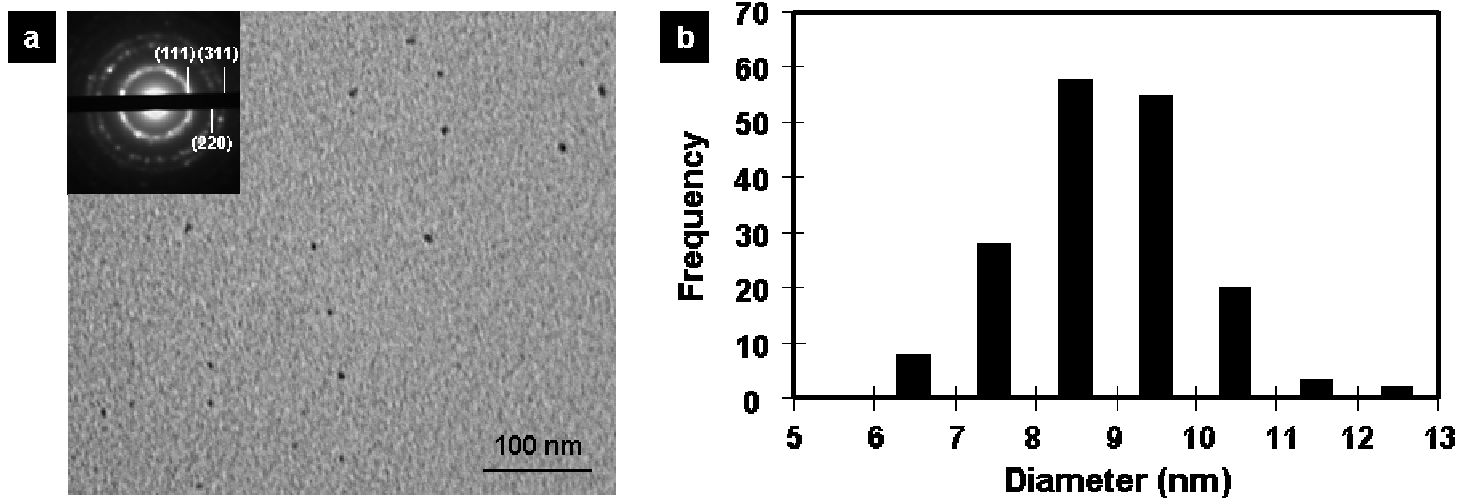


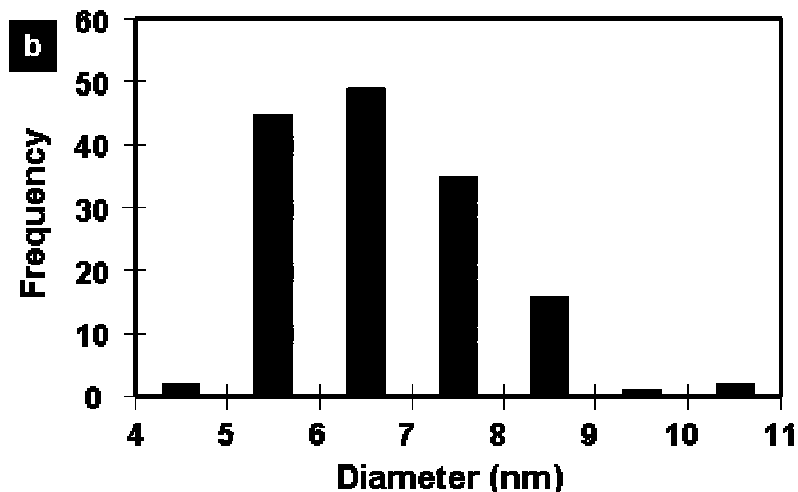
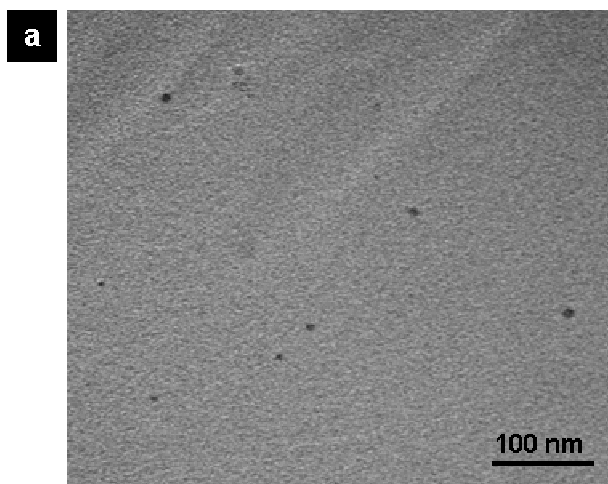
From Phenylsiloxane Polymer Composition to Size-Controlled Silicon Carbide Nanocrystals

Eric J. Henderson, Jonathan G.C. Veinot*

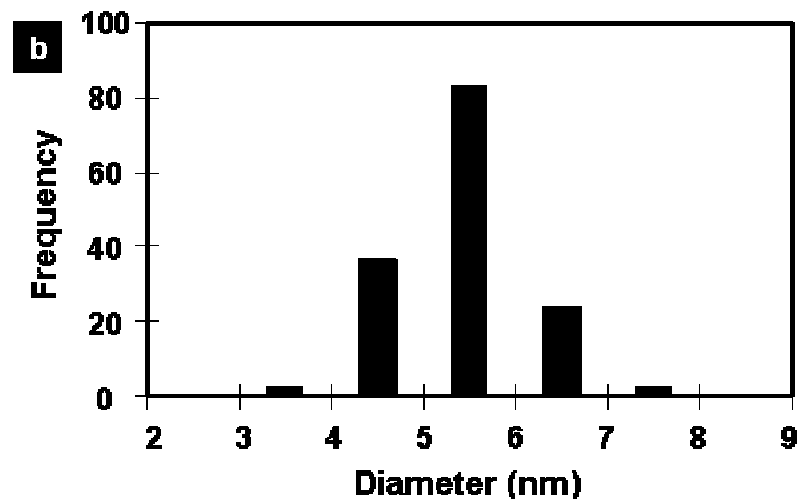
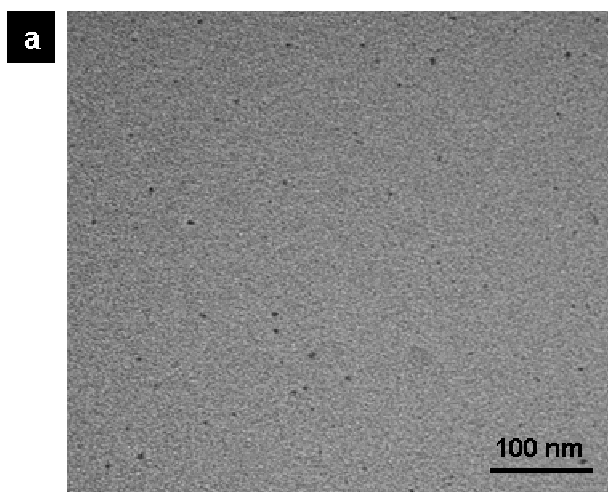
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Supporting Information Figure 1: Low resolution transmission electron microscopy and size determination of freestanding SiC-NCs. **a**, Low-resolution TEM image of liberated SiC-NCs (A5) and selected-area electron diffraction pattern (inset) showing the (111), (220), and (311) crystal planes of β -SiC. **b**, Measured size-distribution of liberated SiC-NCs with an average diameter of 8.9 nm ($n = 150$, $\sigma = 1.1$ nm).



Supporting Information Figure 2: Low resolution transmission electron microscopy and size determination of freestanding SiC-NCs. **a**, Low-resolution TEM image of liberated SiC-NCs (B5). Selected-area electron diffraction pattern of the liberated particles (not shown) were consistent with diamond structure β -SiC. **b**, Measured size-distribution of liberated SiC-NCs with an average diameter of 6.8 nm ($n = 150$, $\sigma = 1.0$ nm).



Supporting Information Figure 3: Low resolution transmission electron microscopy and size determination of freestanding SiC-NCs. **a**, Low-resolution TEM image of liberated SiC-NCs (C5). Selected-area electron diffraction pattern of the liberated particles (not shown) were consistent with diamond structure β -SiC. **b**, Measured size-distribution of liberated SiC-NCs with an average diameter of 5.5 nm ($n = 150$, $\sigma = 0.8$ nm).