Supplementary Data

Scheme 1. Mechanism of siloxane polymer formation.

Scheme 2. Acid-base adduct mediated reduction of noble metal cations.

Scheme 3. Formation of polyindole-noble metal nanoparticle sol.

Figure S1. Images of the siloxane polymer, siloxane-gold nanoparticle sol, polyindole-gold nanoparticle sol, and siloxane-polyindole-gold nanoparticle sol.

Figure S2. TEM images of the polyindole-gold nanoparticle sol.

Figure S3. TEM images of the siloxane-gold nanoparticle sol and polyindole-gold nanoparticles. The TEM images of the polymeric nanofluid were made after mixing the siloxane-gold nanoparticles and polyindole-gold nanoparticle sols.

Figure S4. EDX data from the (A) polyindole–gold nanoparticle sol and (B) siloxane-polyindole-gold nanoparticle polymeric nanofluid.



Scheme 1.



Scheme 2.



Scheme 3.

C:\Users\ABC\Desktop\MRS Communi\uploaded\Final\S1.tif

Figure S1.

C:\Users\ABC\Desktop\MRS Communi\uploaded\Final\S2.tif

Figure S2.

C:\Users\ABC\Desktop\MRS Communi\uploaded\Final\S3.tif

Figure S3.

C:\Users\ABC\Desktop\MRS Communi\uploaded\Final\S4.tif

Figure S4.