Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

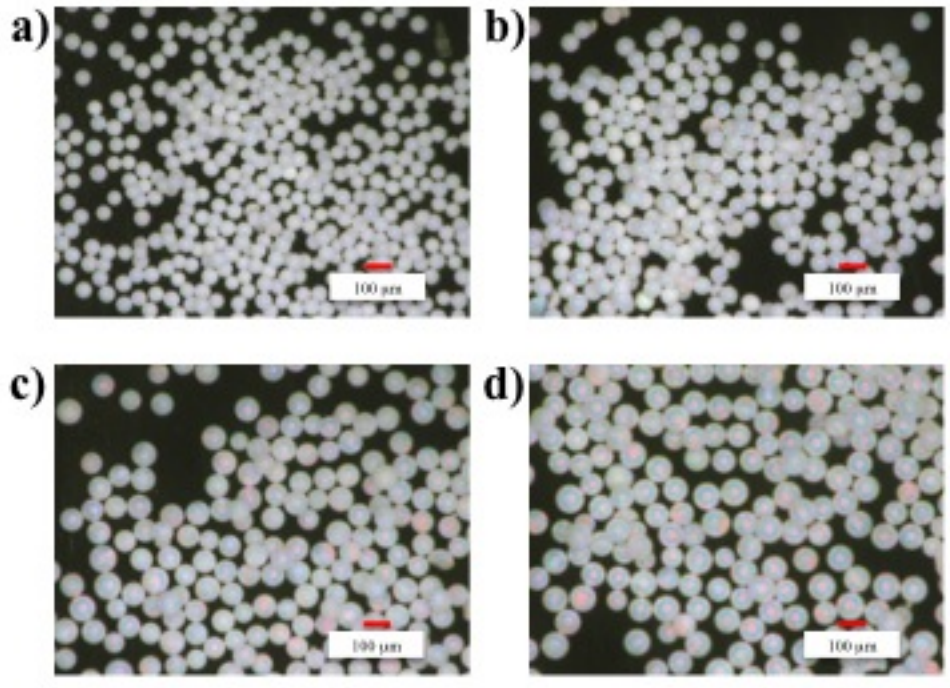

Figure S1 Images of dried SAs composed of 310-nm SiO_2 colloidal particles at various concentrations: a) 10 wt%, b) 20 wt%, c) 30 wt%, and d) 40 wt%.

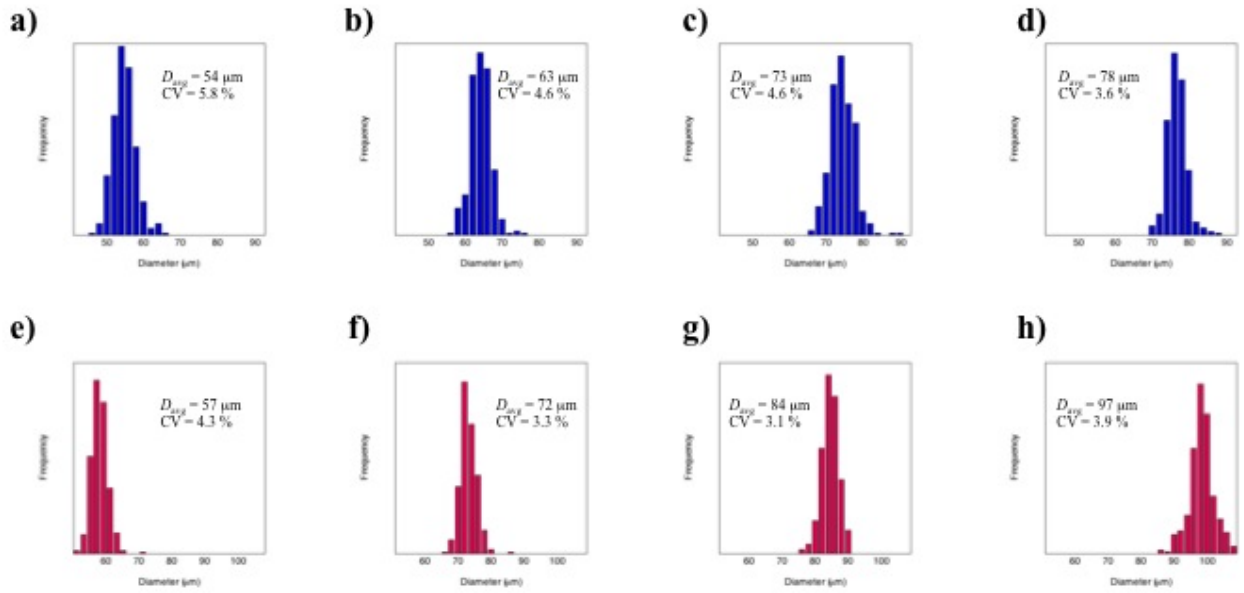

Figure S2 Size distributions of SAs in Figure 2b-e and Figure 1Sa-d.

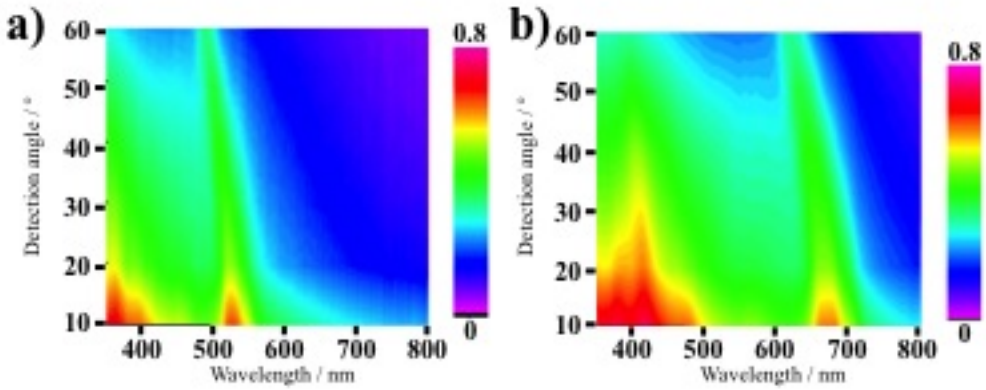

Figure S3 False-color maps showing the scattered light intensity as a function of the detection angle θ and the wavelength from a) a glossy SA composed of 250-nm SiO_2 colloidal particles and b) a glossy SA composed of 310-nm SiO_2 colloidal particles.

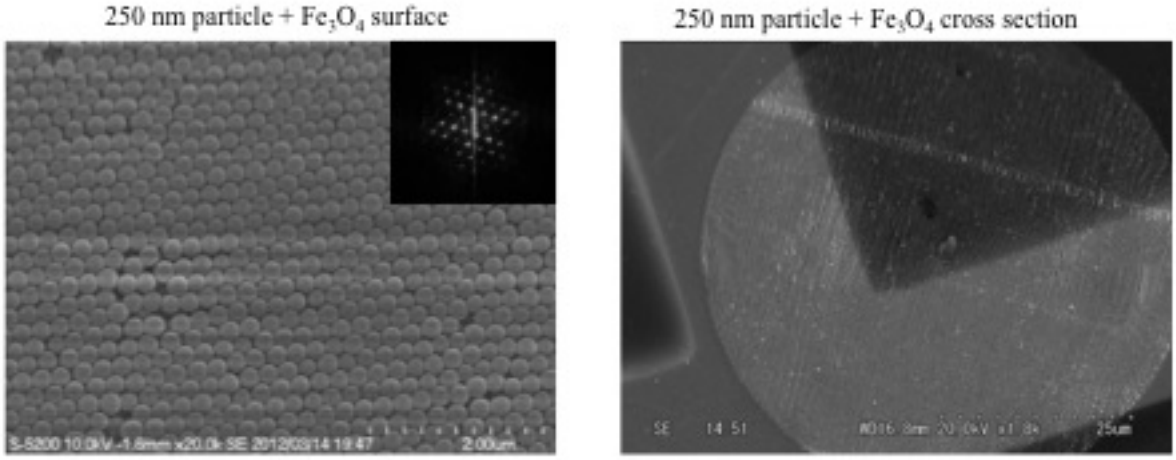

Figure S4 a) An SEM image of a glossy SA composed of 250-nm SiO_2 colloidal particles nm and magnetite colloidal particles. The inset presents the corresponding 2D FFT image. b) A cross-sectional SEM image of a glossy SA composed of 250-nm SiO_2 colloidal particles and magnetite colloidal particles prepared by microtoming the embedded sample.

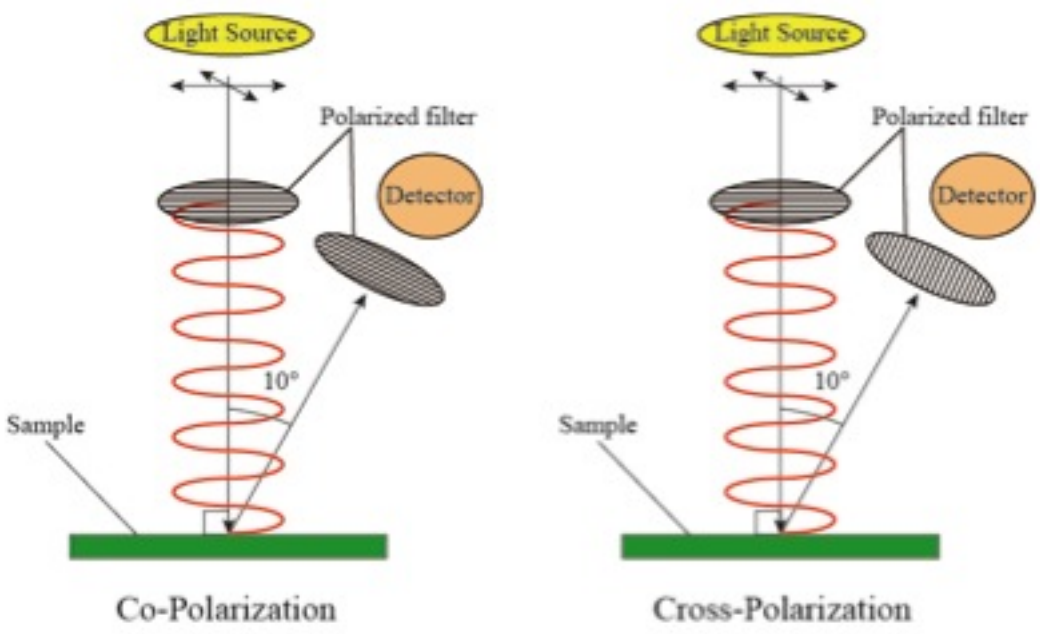

Figure S5 Schematic of the instrument setup used to obtain the co-polarization and cross-polarization spectra.

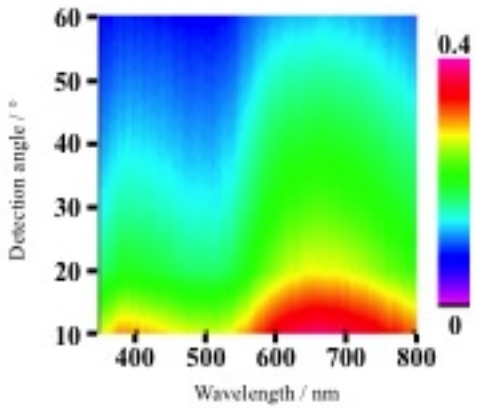

Figure S6 False-color map showing the scattered light intensity as a function of the detection angle θ and the wavelength from a matte SA composed of 310-nm SiO_2 colloidal particles and magnetite colloidal particles.