

Supplementary materials for

Electrophoresis of metal-dielectric Janus particles with dipolar director symmetry in nematic liquid crystals

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Movie S1: Janus dipolar particles with different orientations of the metal hemisphere moving along the director in 5CB with their direction of motion parallel to the elastic dipole \vec{p} . The ac electric field is applied ($65 \text{ mV}\mu\text{m}^{-1}$, 30 Hz) parallel to the director.

Movie S2: Janus dipolar particles with different orientations of the metal hemisphere, moving along the director in MLC-6608 with their direction of motion antiparallel to the elastic dipole moment \vec{p} . The applied ac field ($2.0 \text{ V}\mu\text{m}^{-1}$, 30 Hz) is perpendicular to the director.