Movie 1: The movie shows the motion of the magnetic nanoparticles (MNP’s) inside the ferrofluid droplet domain under the influence of a time-dependent magnetic field of frequency 0.3 Hz, 1 Hz, 3 Hz, and 5 Hz respectively.

Movie 2: The movie shows the mixing phenomena occurring between the two droplets in presence of a time-dependent magnetic field of frequency 0.3 Hz.

Movie 3: The movie shows the mixing phenomena occurring between the two droplets in presence of a time-dependent magnetic field of frequency 1 Hz.

Movie 4: The movie shows the mixing phenomena occurring between the two droplets in presence of a time-dependent magnetic field of frequency 3 Hz.

Movie 5: The movie shows the mixing phenomena occurring between the two droplets in presence of a time-dependent magnetic field of frequency 5 Hz.

Movie 6: The movie shows the motion of the fluorescent dye and the MNPs in the sessile ferrofluid droplet in presence of a time-dependent magnetic field of frequency .

Movie 7: The movie shows the motion of the MNPs in the sessile ferrofluid droplet both in absence and presence of time-dependent magnetic field ().