Electronic Supplementary Information

**Video 1:**
Video of Fig. 3, showing Ar and He bubble generation, mixing, splitting, and expelling.

**Video 2:**
Video of Fig. 5, showing Ar microplasma moved by DEP.

**Video 3:**
Video of Fig. s2, showing Ar microplasma moved by DEP in a dark environment.

**Video 4:**
Video of Fig. 6, showing microplasma split by DEP.

![Images](a)(b)(c)(d)

**Fig. s1** Microplasma splitting by the surrounding high electric field.
Fig. s2 Microplasma transportation with the bubble recorded in a dark environment. Video 3 can be seen in the ESI.†