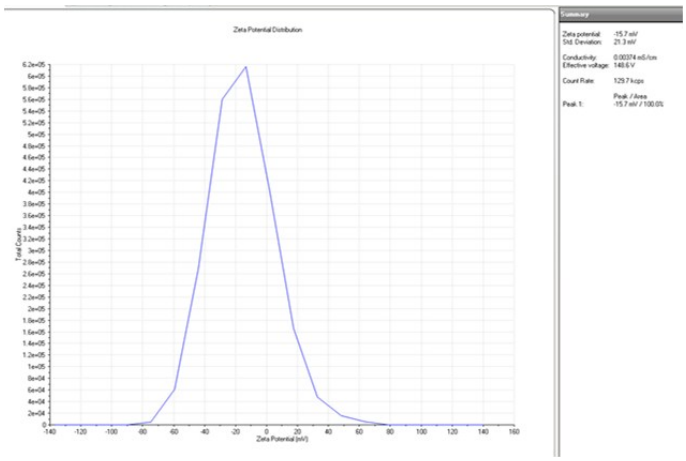

Fig. S1. Zeta potential curves of NMM ceramic inks

The zeta potential is one criterion to judge the stability of ceramic inks. Therefore, we add the zeta potential test below as support materials. The zeta potential value of ceramic inks is 15.7 mv, which indicates the well stability of NMM ceramic inks.

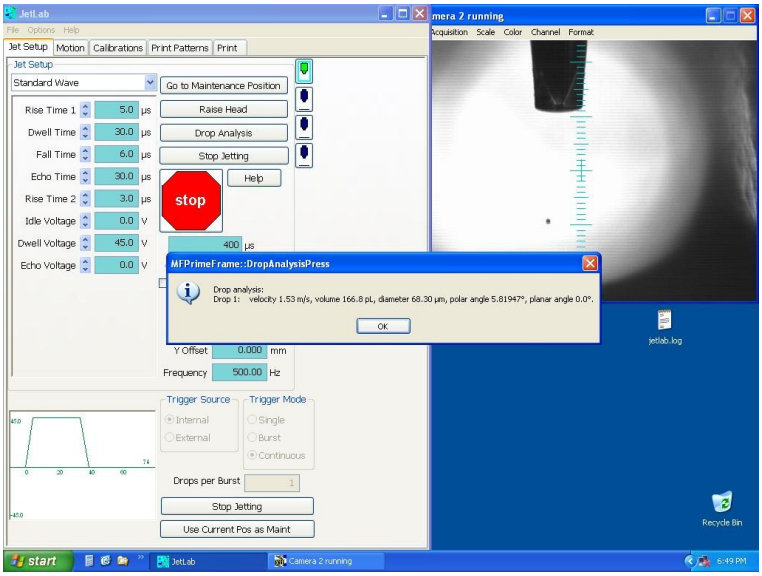

Fig. S2 The inkjet-printing debugging picture of NMM ceramic inks

The ink-jet printer system (Microfab, inkjet Ⅱ, USA) was purchased and assembled. The system is consisted of a piezoelectric ink-jet head with 80 μm nozzle, electrical control system, pneumatic control system and CCD camera system. We can set drop number (1-999) by electrical trigger mode, voltage value and air pressure value in this system to control the inkjet-printing of ceramic inks. The nozzle diameter can be varied between 20 and 80 μm, allowing fluid dispensing on a picoliter scale, with frequencies of up to 10000 drops s-1 per nozzle. The inkjet-printing debugging picture is shown below as support materials.