

Supporting Information for
Layer-By-Layer Films for Tunable and Rewritable
Control of Contact Electrification

Siowling Soh,^a Xin Chen,^a Sarah J. Vella,^a Wonjae Choi,^a Jinlong Gong,^a and George M.

Whitesides^{*abc}

^a Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street,
Cambridge, MA 02138, USA

^b Wyss Institute for Biologically Inspired Engineering, Harvard University, 60 Oxford Street,
Cambridge, MA 02138, USA

^c Kavli Institute for Bionano Science and Technology, School of Engineering and Applied
Sciences, Harvard University, 29 Oxford Street, Cambridge, MA 02138, USA

* Corresponding author: gwhitesides@gmwgroup.harvard.edu

Fig. S1. Schematic of the features on the three PDMS stamps used for patterning polyelectrolytes on the substrate. The patterns on the stamps are fabricated according to the percentage of the area of contact between the stamp and the substrate (protruding regions, as indicated in light blue in the scheme) over the entire surface area of the substrate. Panels a, b, and c show patterns capable of stamping 25%, 50%, and 75% of the surface of the substrate. The first two patterns consist of circular posts with different diameters arranged in a hexagonal layout. The last pattern is the reverse of the first pattern.

