

Supplementary Information:

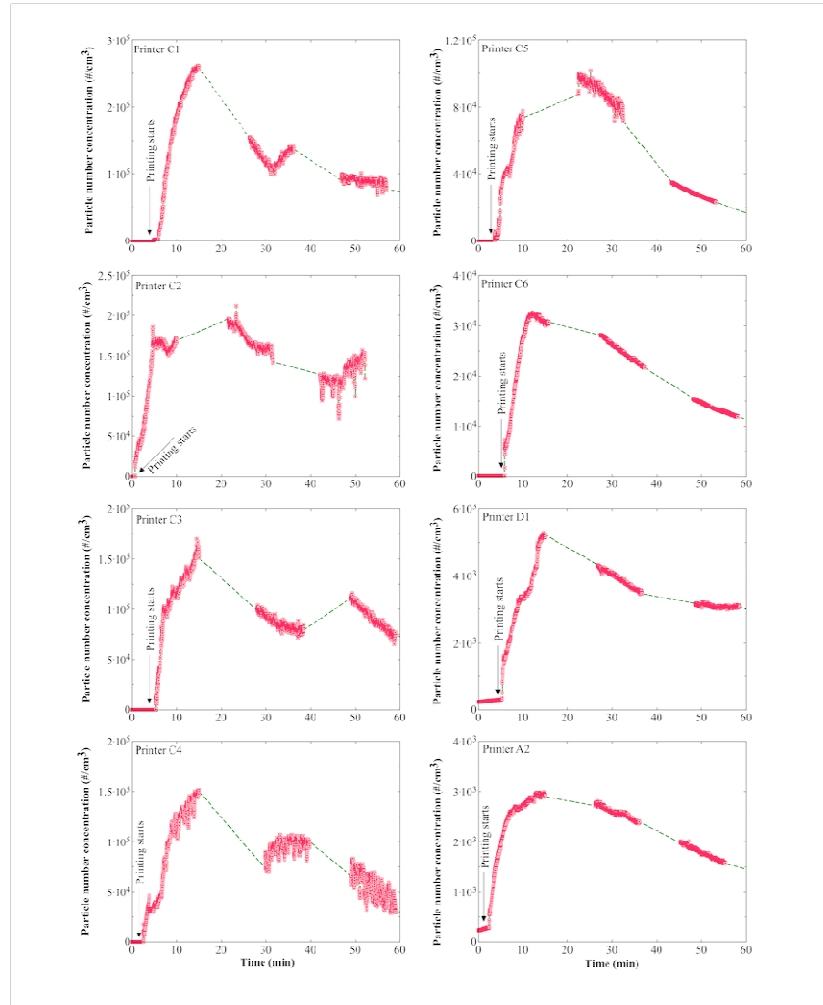


Figure S1. Particle number concentration of the remaining eight tested laser printers during a 60-minute print job using a 5% page coverage. Data obtained from CPC instrument.

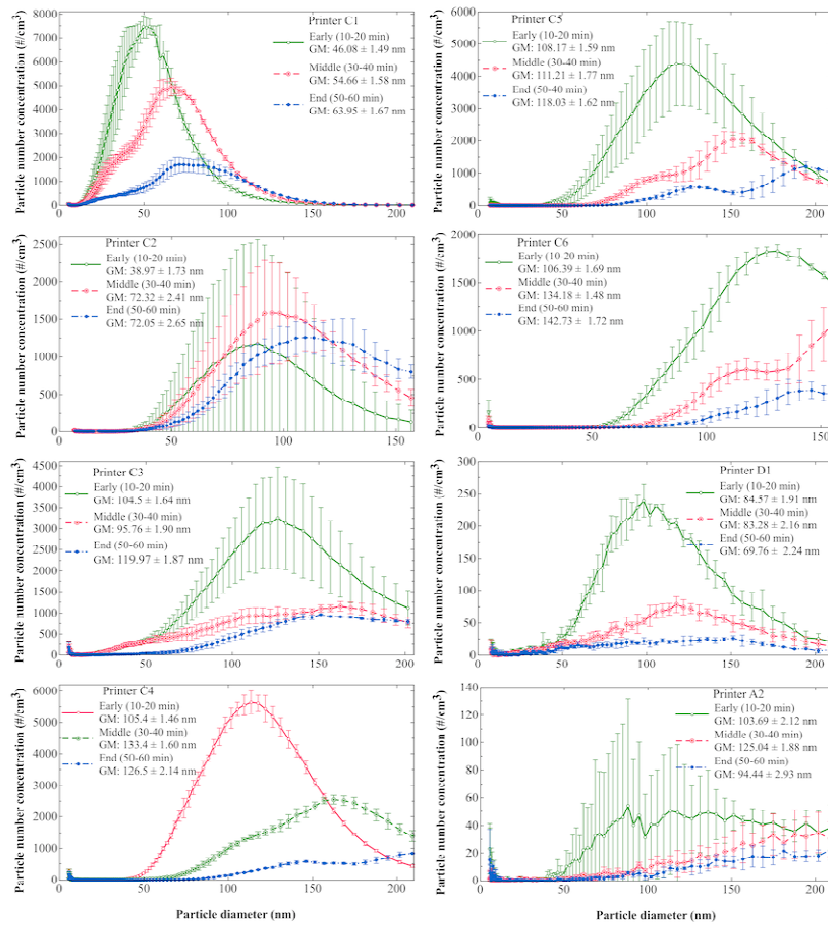


Figure S2. Average PEP size distribution generated by the remaining laser printers at different time points of a 60-minute print job using a 5% page coverage. Graph data shows the geometric standard mean (GM) \pm geometric standard deviation at different print job time points.

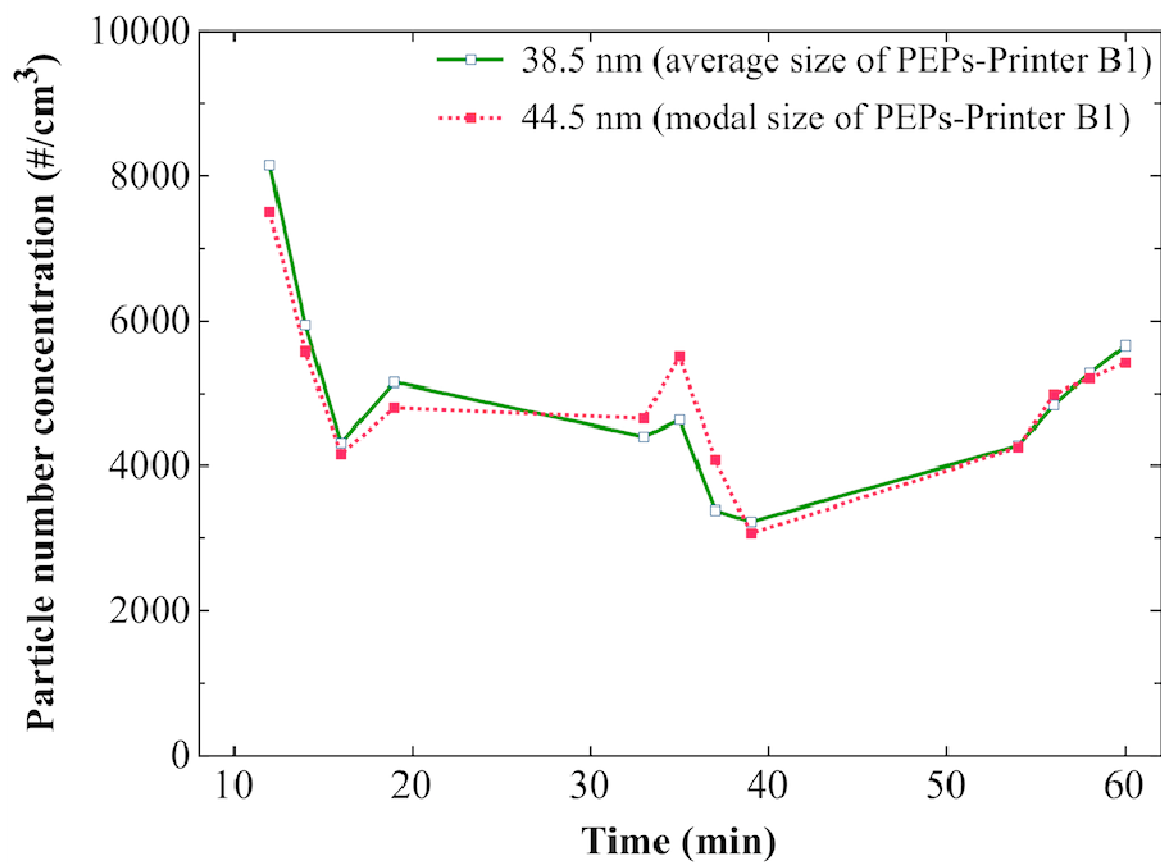


Figure S3. Snapshot of number concentration of particles emitted by printer B1, for two particle diameters, as a function of time.

Table S1. Functional properties of all the eleven evaluated laser printers.

Printer	Printing speed (pages/min)	Color or halftone	Manufacture year
A1	31	Color	2011
A2	38	Halftone	2013
B1	24	Halftone	2012
B2	21	Halftone	2004
C1	12	Halftone	2007
C2	35	Halftone	2009
C3	30	Color	2009
C4	33	Halftone	2012
C5	27	Halftone	2007
C6	25	Halftone	2011
D1	26	Halftone	2012

Table S2. Summary of parameters used in the *in vivo* lung Multiple Path Particle Deposition model (MPPD2, Anjilvel and Asgharian 1995).

Human Model	Breathing Parameters	<i>Airborne Nanoparticle Distribution</i>
<i>Functional Residual Capacity:</i> 3300 mL	<i>Tidal Volume:</i> 625 ml	<i>CMD:</i> 57.45 nm
<i>Head Volume:</i> 50 mL	<i>Breathing Frequency:</i> 12 breaths/ min	<i>Geometric Standard Deviation:</i> 1.67
<i>Breathing Route:</i> Nasal	<i>Inspiratory Fraction:</i> 0.5 <i>Pause Fraction:</i> 0.0	<i>Mass Concentration:</i> 23.86 µg/m ³