Abbreviations

ATP	Adenosine triphosphate
ATPS	Aqueous two-phase system
BF	Bright-field
BSA	Bovine serum albumin
CAD	Computer-aided design
CF	Continuous flow
CFD	Computational fluid dynamics
CLSM	Confocal laser scanning microscopy
CNC	Computerized numerical control
COC	Cyclic olefin copolymer
CP	Continuous-phase (flow)
DC	Direct current
DI	Deionized (water)
DLS	Dynamic light scattering
DM	Drop maker
ESI	Electron-spray ionization
ETPTA	Trimethylolpropane ethoxylate triacrylate
FE	Finite element
FEM	Finite element method
FITC	Fluorescein isothiocyanate
FRR	Flow-rate ratio
HFE	Hydrofluoroether
HFF	Hydrodynamic flow-focusing
hMSC	Human mesenchymal stem cells
HR	High-resolution
IP	Inner-phase (flow)
LbL	Layer-by-layer
MALDI	Matrix-assisted laser desorption/ionization
MEMS	Microelectromechanical system
MF	Microfluidics
MP	Middle-phase (flow)
MS	Mass spectrometry
MTES	Triethoxy(methyl)silane
MW	Molecular weight
NP(s)	Nanoparticle(s)
O/W/O	Oil-in-water-in-oil
P2VP	Poly(2-vinylpyridine)
PAA	Poly(acrylic acid)
PAH	Poly(allylamine hydrochloride)
PAAm	Polyacrylamide
PBS	Phosphate-buffered saline
PDE	Partial differential equation
PDMS	Poly(dimethyl siloxane)
PEG	Poly(ethylene glycol)
PI	Photoinitiator
PL	Photolithography
PLA	Poly(lactic acid)

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PNIPAM	Poly(*N*-isopropyl acrylamide)
PSS	Poly(sodium 4-styrenesulfonate)
PTFE	Poly(tetrafluoroethylene)
RGD	Peptide sequence arginine–glycine–aspartic acid (Arg–Gly–Asp)
SAXS	Small-angle X-ray scattering
SEM	Scanning electron microscopy
SF	Segmented flow
SL	Soft lithography
SME	Small and medium enterprises
TEMED	Tetramethylethylenediamine
TEOS	Tetraethyl orthosilicate (IUPAC: tetraethoxysilane)
UV	Ultraviolet
W/O/W	Water-in-oil-in-water
W/W/W	Water-in-water-in-water