

Materials List for:

Microfluidic-based Synthesis of Covalent Organic Frameworks (COFs): A Tool for Continuous Production of COF Fibers and Direct Printing on a Surface

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Materials

Name	Company	Catalog Number	Comments
High resolution film masks	Microlitho, UK	-	Features down to 5um
Silicon wafers	Silicon Materials Inc., Germany	4" Silicon Wafers	Front surface: polished, back surface: etched
Silicone Elastomer KIT (PDMS)	Dow Corning, USA	Sylgard 184	-
Chlorotrimethylsilane	Sigma-Aldrich, Switzerland	386529	≥97%, CAUTION: Handle it only under fume hood.
Biopsy puncher	Miltex GmbH, Germany	33-31A-P/25	1.5 mm
Glass coverslip	Menzel-Glaser, Germany	BB024040SC	24 mm × 40 mm, #5
Plasma generator instrument	Diener	Zepto B	Frequency: 40 kHz and plasma generator power: 0-30 W
PTFE tubing	PKM SA, Switzerland	AWG-TFS-XXX	AWG 20TFS, roll of 100 m
neMESYS Syringe Pumps	Cetoni GmbH, Germany	Low Pressure (290N)	-
Disposable Cup	Semadeni, Switzerland	8323	PS, 200 ml
Plastic Spatula	Semadeni, Switzerland	3340	L × W : 135 mm x 14 mm
Disposable Scalpels	B. Braun, Switzerland	233-5320	Nr. 20
Disposable Syringes	VWR, Switzerland	613-3951	5 ml, Discardit II
Acetic Acid	Sigma-Aldrich, Switzerland	695092-500	≥99.7%, CAUTION: Handle it only under fume hood.
1,3,5-benzenetricarbaldehyde	Aldrich-Fine Chemicals	753491	97%
1,3,5-Tris(4-aminophenyl)benzene	Tokyo Chemical Industry	T2728-5G	>93.0%