biosensors

MDPI

Supplementary Materials

Microfluidic-Assisted Synthesis of Metal—Organic Framework—Alginate Micro-Particles for Sustained Drug Delivery

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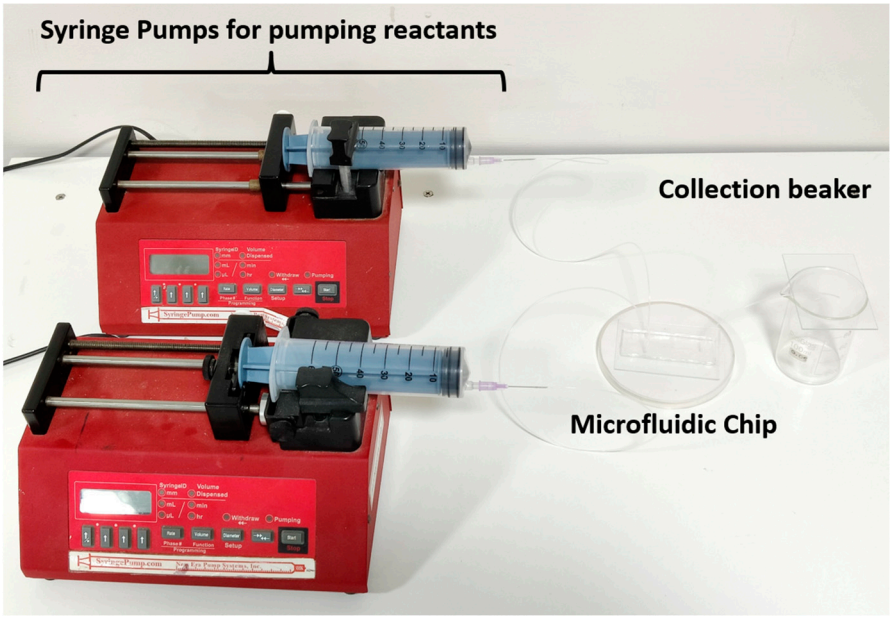

Figure S1. Setup for microfluidic MOF synthesis.

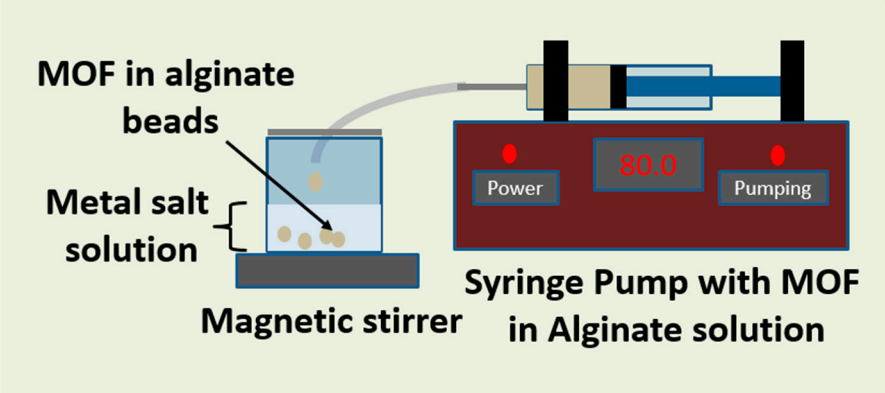

Figure S2. Schematic of setup for MOF in Alginate bead synthesis.

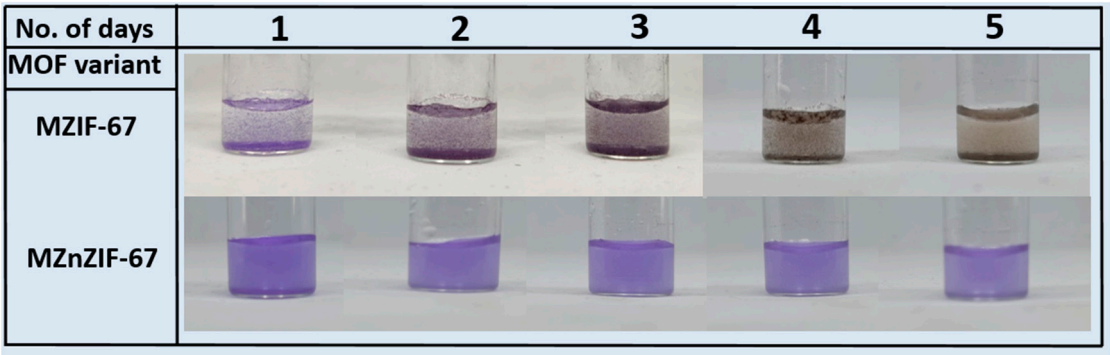

Figure S3. Stability of microfluidic synthesized MOF variants in PBS over a period of 5 days.

Table S1. BET isotherm parameters of different MOFs.

Type of MOF/Adsorbent	$a_{s,BET}$ (m^2g^{-1})	Mean pore diameter (nm)	Total pore volume (cm^3g^{-1})
ZIF-67	3001.3	1.6177	1.2138
MZIF-67	1823.4	1.6057	0.7319
MZnZIF-67	1864.3	1.5674	0.7305

Table S2. The binding energies and elemental composition from the XPS of Alg_MZnZIF-67

Name	Binding Energy (eV)	Atomic %
C1s	284.6	48.58
O1s	531.07	45.96
Ca2p3	351.03	1.58
Ca2p1	354.4	1.99