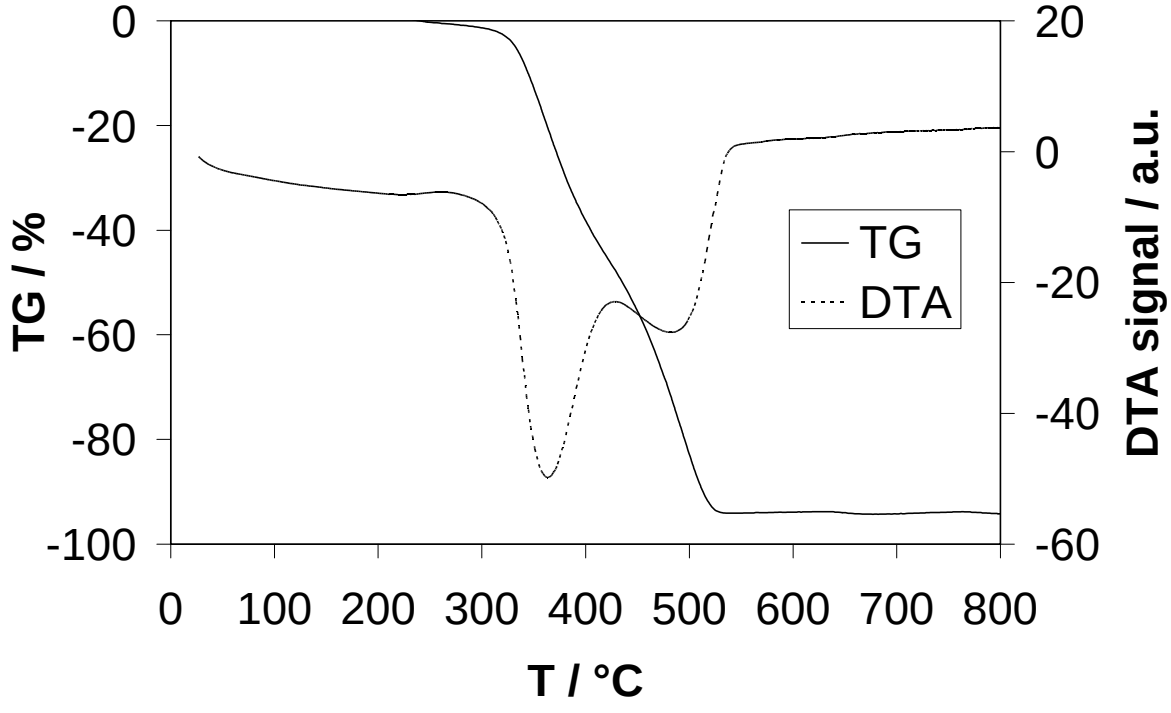
New element organic frameworks via *Suzuki* coupling with high adsorption capacity for hydrophobic molecules

Marcus Rose,[a] Nicole Klein,[a] Winfried Böhlmann,[b] Bertram Böhringer,[c] Sven Fichtner,[d] and Stefan Kaskel*[a]

Supporting Information

		EOF-6	EOF-7	EOF-8	EOF-9
Aryl bromide	n / mmol	0.250	0.250	0.590	0.390
	m / mg	160	163	180	212
Boronic acid	n / mmol	0.500	0.500	0.290	0.290
	m / mg	83	83	150	150
Pd(PPh3)4	n / mmol	0.010	0.010	0.012	0.012
	m / mg	12	12	14	14
dippf	n / mmol	0.010	0.010	0.012	0.012
	m / mg	4	4	5	5

S1: Optimized synthesis parameters for EOF-6 to -9.



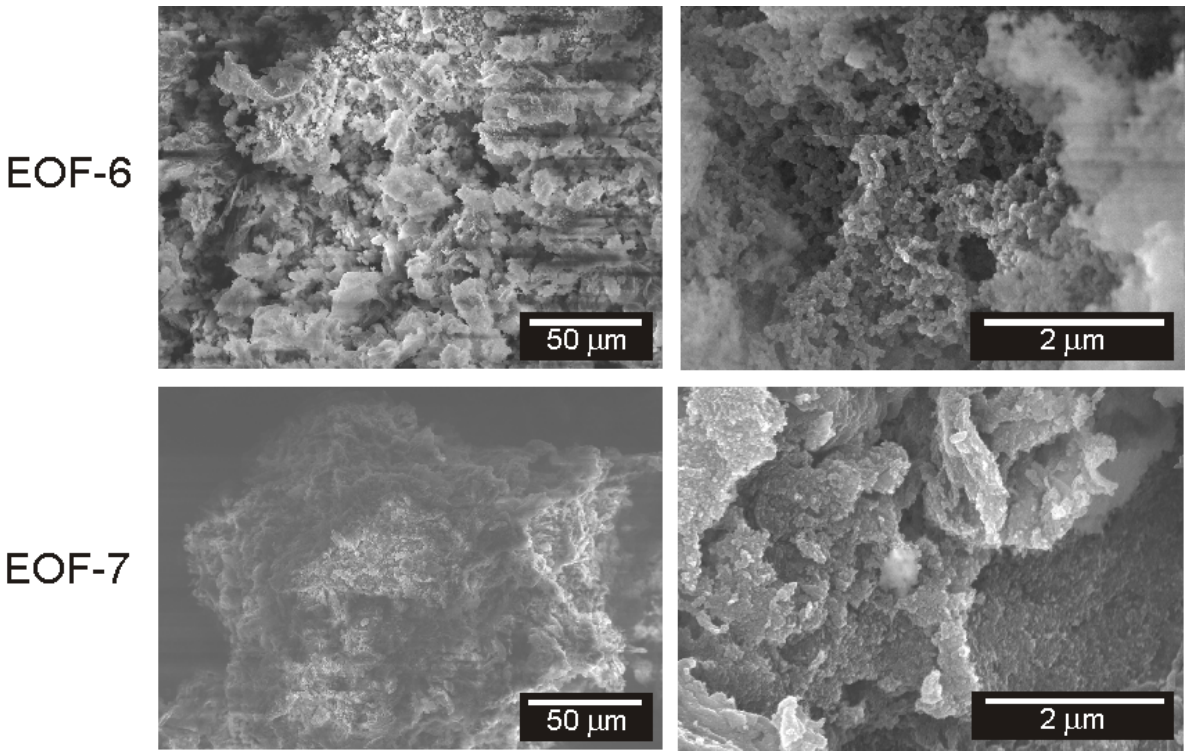
S2: DTA TG analysis for EOF-6 in air.

EOF-6			**EOF-7**		
Element	Atom-%	wt-%	Element	Atom-%	Wt-%
C	96.21 / 60.70	95.74 / 94.84	C	89.88 / 59.02	88.50 / 89.21
P	0.20 / -	0.51 / -	Si	1.43 / 1.64	3.30 / 5.80
B	3.52 / -	3.15 / -	O	0.88 / -	1.15 / -
O	0.00 / -	0.00 / -	P	0.08 / -	0.19 / -
Pd	0.07 / -	0.59 / -	B	7.74 / -	6.86 / -

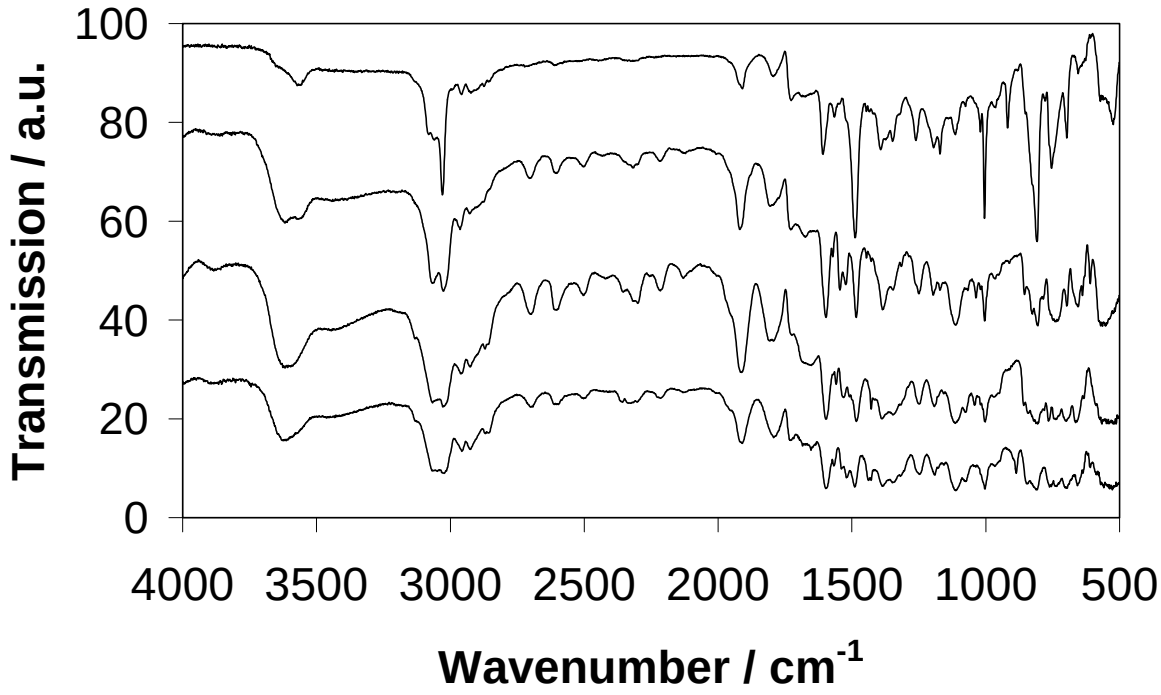
S3: EDX analysis of EOF-6 and -7 (measured/theoretical).

EOF	C		H	
	calculated / wt-%	measured / wt-%	calculated / wt-%	measured / wt-%
6	94.84	85.31	5.16	4.73
7	89.21	82.29	4.99	4.86

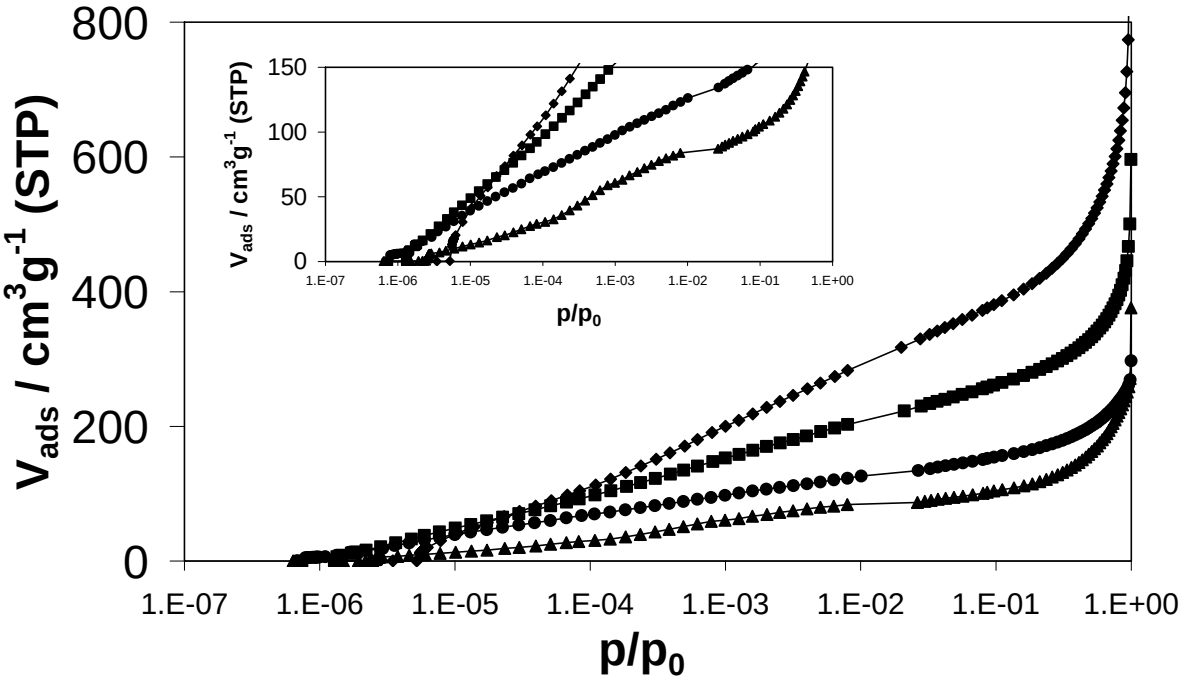
S4: Results of elemental analysis of EOF-6 and -7.



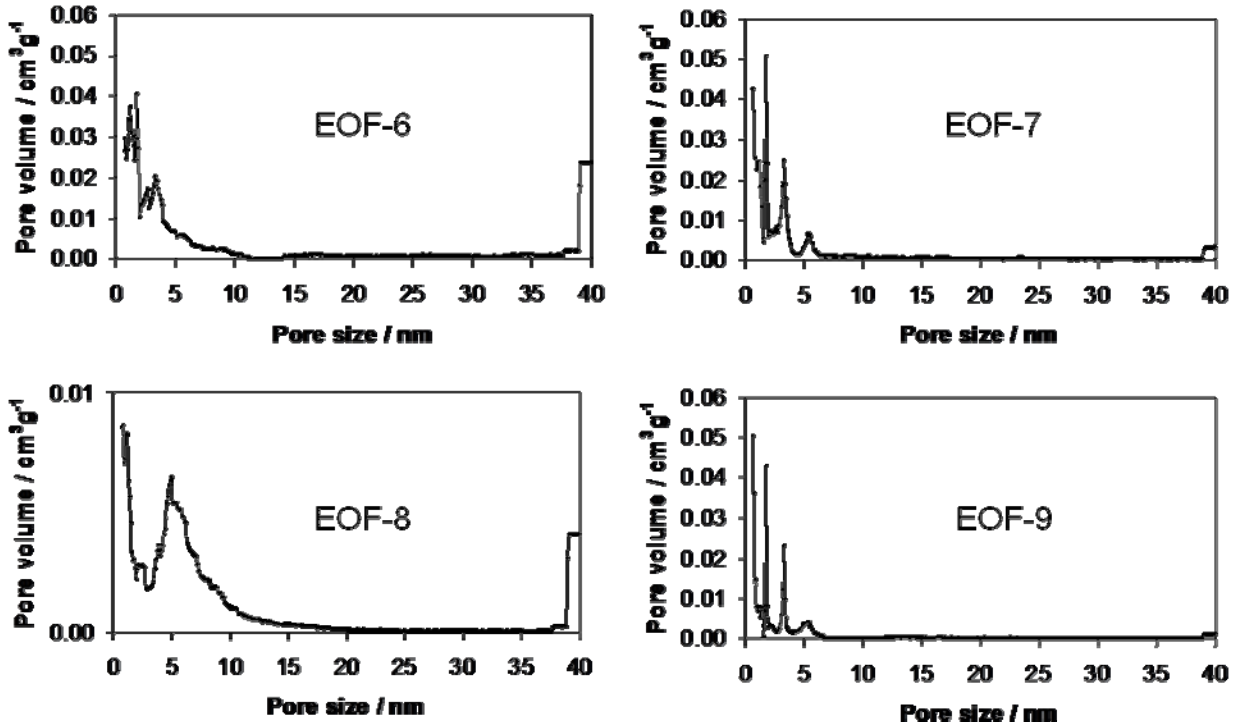
S5: SEM micrographs of EOF-6 and -7.



S6: FT-IR spectra of EOF-6 (top) to EOF-9 (bottom) measured in diffuse reflection mode.



S7: Low pressure nitrogen adsorption isotherms of EOF-6 (diamonds), -7 (squares), -8 (triangles), and -9 (circles).



S8: NLDFT pore size distribution for EOF-6 to -9 using N_2 at 77 K on carbon, slit-/cylinder. pore, NLDFT eq. model.