

Supporting information

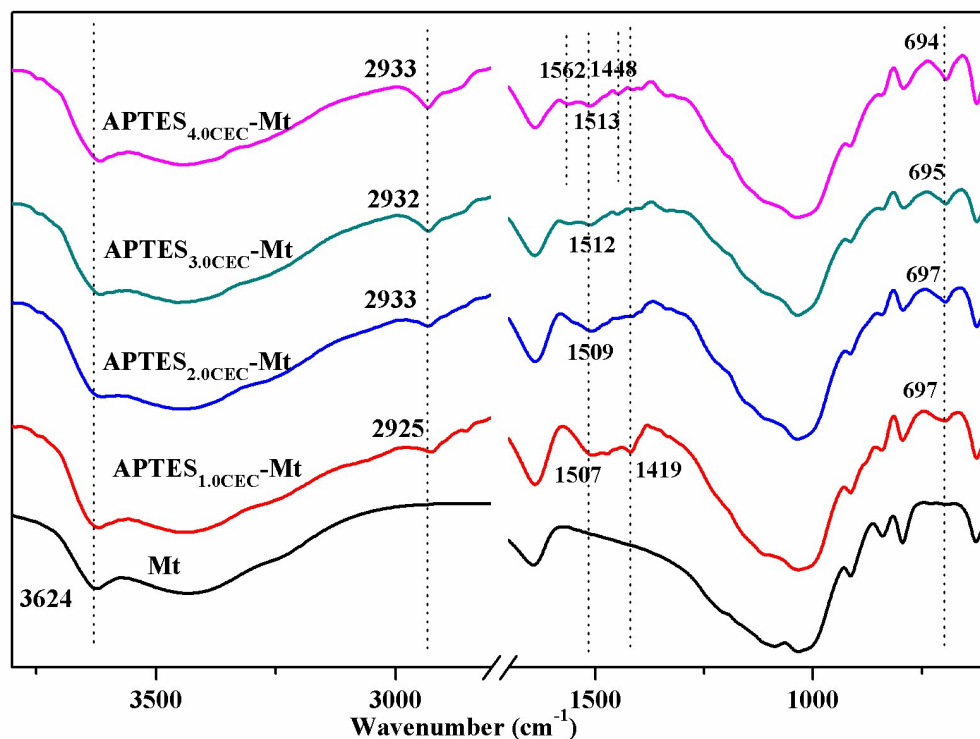


Fig. S1 Infrared spectra of Mt and APTES-Mts

Table S1 Point of zero charge and structural data of Mt and APTES-Mts

(S_{ext} =external surface area, D_a =average pore diameter, V_t =total porous volume, V_{micro} =microporous volume).

Samples	pH _{zpc}	S _{BET} (m ² /g)	S _{ext} (m ² /g)	D _a (nm)	V _{micro} (cm ³ / g)	V _t (cm ³ /g)
Mt	<1.0	71.15	51.90	13.629	0.00844	0.141403
APTES _{1.0CEC} -Mt	2.2	81.54	33.62	196.22	0.02198	0.105614
APTES _{2.0CEC} -Mt	6.0	16.48	14.17	290.56	0.00078	0.065644
APTES _{3.0CEC} -Mt	7.8	17.59	15.07	264.43	0.00084	0.064276
APTES _{4.0CEC} -Mt	8.3	11.91	9.94	341.42	0.00067	0.052098