

Supplementary materials.

Table S1 EDS elemental composition analysis tables of CMBs before and after Pb²⁺ reaction.

	Sample	C	N	O	Ca	K	Pb
before reaction	CMB200(a)	9.03	2.41	20.36	65.75	1.44	/
	CMB400(b)	14.57	3.87	15.14	61.04	5.38	/
	CMB600(c)	14.78	17.49	10.1	57.63	/	/
	CMB800(d)	43.42	3.39	13.76	31.71	7.68	/
after reaction	CMB200(e)	5.63	12.09	23.41	26.7	/	4.88
	CMB400(f)	19.47	4.69	15.43	48.38	/	10.55
	CMB600(g)	41.98	16.85	10.79	23.82	/	16.56
	CMB800(h)	18.32	4.38	8.78	62.33	5.84	20.30