

Table S1 The ratio of different biochar incorporated into cement composites

Samples	OPC (g)	Biochar (g)	W/C
B1, B2, B3, C1, C2, C3, D1, D2 and D3	396	4	0.4
B1, B2, B3, C1, C2, C3, D1, D2 and D3	392	8	0.4
B1, B2, B3, C1, C2, C3, D1, D2 and D3	388	12	0.4
B1, B2, B3, C1, C2, C3, D1, D2 and D3	380	20	0.4

B1, B2, B3, C1, C2, C3, D1, D2 and D3 are SP300-cement composites, SP500-cement composites, SP700-cement composites, CMBC300-cement composites, CMBC500-cement composites, CMBC700-cement composites, CMSP300-cement composites, CMSP500-cement composites, CMSP700-cement composites, respectively.