



**Supplementary Fig. S2** Relationships between the RRCO<sub>2</sub>, RRCH<sub>4</sub>, RRN<sub>2</sub>O and RRNH<sub>3</sub> with carbon-nitrogen ratio (C/N), moisture content (MC), initial pH (pH), electric conductivity (EC) of compost, and application rate (AR) of biochar.