

**Supplementary Table 2 | Nitrogen-adsorption properties of raw and field-aged biochar. Surface area, total pore volume and average pore size were determined by N<sub>2</sub> adsorption–desorption analysis and are descriptive material measurements.**

| Material | BET surface area (m <sup>2</sup> g <sup>-1</sup> ) | Total pore volume (cm <sup>3</sup> g <sup>-1</sup> ) | Average pore size (nm) |
|----------|----------------------------------------------------|------------------------------------------------------|------------------------|
| RC       | 6.95                                               | 0.0120                                               | 9.27                   |
| C1B0     | 7.33                                               | 0.0124                                               | 22.51                  |
| C1B1     | 12.49                                              | 0.0194                                               | 13.72                  |