**Table. S5.** The net release amount of H+ by the demineralized biochars after absorbing Cd2+.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Demineralized biochars | Initial pH | Final pH | Net release amount of H+ (10-5 mol/L) | Equivlant adsorption capacity of Cd2+ (mg/g) |
| D-RSB | 5.54 | 4.73 | 1.59 | 0.89 |
| D-ELB | 5.54 | 4.99 | 0.72 | 0.40 |
| D-VGB | 5.54 | 5.41 | 0.10 | 0.06 |