VILNIUS TECH
Vilnius Gediminas Technical University

Journal of Environmental Engineering and Landscape Management
ISSN 1648–6897 / eISSN 1822-4199
2023 Volume 31 Issue 4
https://doi.org/10.3846/jeelm.2023.20042

Supplementary information

CO-RECYCLING OF SEWAGE SLUDGE AND GARDEN WASTE BIOCHAR: AS A GROWING MEDIUM FOR LANDSCAPE PLANT

Han SHENG, Jiayi FENG, Yuantong YANG, Haider FASIH ULLAH, Weixin PENG, Xu LI, Fengling LONG, Daoming WU, Shucai ZENG

Table S1. Basic physical and chemical properties of test soil and sludge

Characteristic	Soil	Sludge
pH	5.77	7.52
Bulk density (g cm^{-3})	1.31	0.84
Soil water content (g kg^{-1})	154.69	702.68
Soil organic matter (g kg^{-1})	15.41	96.54
Total N (g kg^{-1})	0.70	7.35
AN (mg kg^{-1})	26.83	428.50
Total P (g kg^{-1})	0.38	4.81
OP (mg kg^{-1})	15.27	611.08
Total K (g kg^{-1})	2.71	6.43
AK (mg kg^{-1})	65.23	413.27
Cu (mg kg^{-1})	17.31	423.66
Zn (mg kg^{-1})	40.23	863.49
Pb (mg kg^{-1})	29.56	48.51
Cd (mg kg^{-1})	0.18	19.88

Note: Total N = total nitrogen; AN = available nitrogen; Total P = total phosphorus; OP = olsen phosphorus; Total K = total potassium; AK = available potassium; Cu = copper; Zn = zinc; Pb = lead; and Cd = cadmium.

Table S2. Basic properties of *Ficus altissima* litter-derived biochar (FB)

Characteristic	FB
pH (1:2.5 biochar:water ratio)	12.53
N%	1.255
C%	66.705
H%	3.48
C:N	53.1409
C:H	19.1658
Cu%	0.0014
Zn%	0.0108
Pb%	0.0004
Cd%	/
Cation exchange capacity (cmol kg^{-1})	21.57
Specific surface area (m^2 g^{-1})	2.08
Total pore volume (cm^3 g^{-1})	0.0133
Average pore diameter (nm)	34.7216

Note: C: N = carbon-nitrogen ratio; C: H = carbon-hydrogen ratio; Cu = copper; Zn = zinc; Pb = lead; and Cd = cadmium.