

Research Article

Effect of Mass Proportion of Municipal Solid Waste Incinerator Bottom Ash Layer to Municipal Solid Waste Layer on the Cu and Zn Discharge from Landfill

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C u Ju ; @ .
✉ ;✉ N ;A N
A E :Q M

C C . u , u

I , H . u

C u .I u

M I u x u

u u .Du ANC

M I , H u u

.A u , M I

u u , u

u u M I C GB/

.A ,Cu u

M I M

, , .B ,

x u u

I u , u

M I (), M

M I : (),

M : (), M I

M I u ,C

:

M I

M I

Cu u . u Cu u

M I u

2.2. MSWI Bottom Ash and MSW. F M I

G E M I

,E C . M

-1. M I u

M u .

K xu H z u, ,C .I

,M .L

u u M

x . , u z

u u

C GB/ - .

2.3. Operation of Simulated Landfills. F I , M

F I , M

, M I .A ,

. M .F I ,

M I .A , M

. u M

u u u % . , . L

u u u u .L

2.4. Analyses.

M I z ICP-OE

u

A M D . u A M

C . H u - - u

u (LOI) u - - C : .

GB - . u z M I

. . Cu J

z ICP-OE M M

L

u (~ L). M u

Cu M

L z H, .M -

(DOC), Cu Cu .A M -

z Cu .A M -

Ex u .M -

.P u , .A

2. Materials and Methods

2.1. Experimental Set-Up.

, u I , I , u .E

u L.E u u

: u u x ,

M I M ,

M I u I .A

,

u L

u .A z

u u

u u

x -u . Fu .



B M [•] I

Б :C

Cu

M .

C

F

P

P

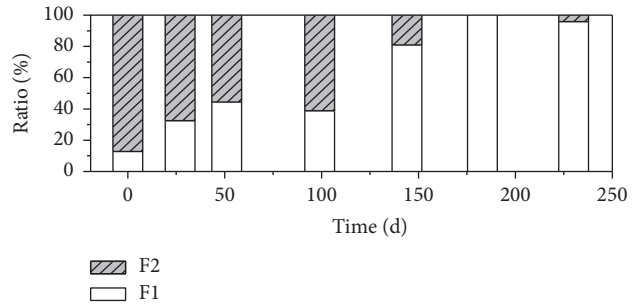
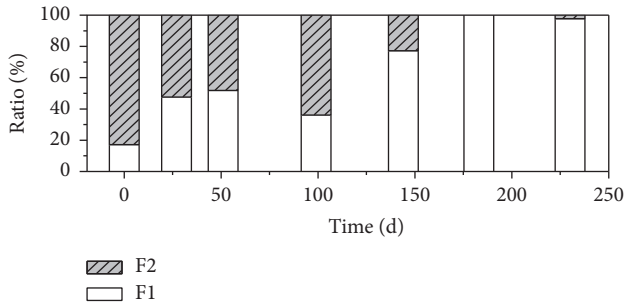
x

Du

C

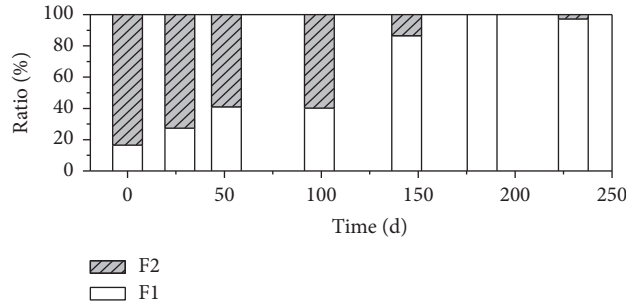
M

[•]



()

()



()

F u :F Cu > . μ ;F : x. (.) : ; () : ; () :

u > > , M I u -M (p < 0.05,) . Du u u -M M I , Cu u -M M I fl > > , A Cu u -M u u Cu u -M M I . A , Cu M u -M (GB - , G II H < . : Cu ≤ -1) . M I

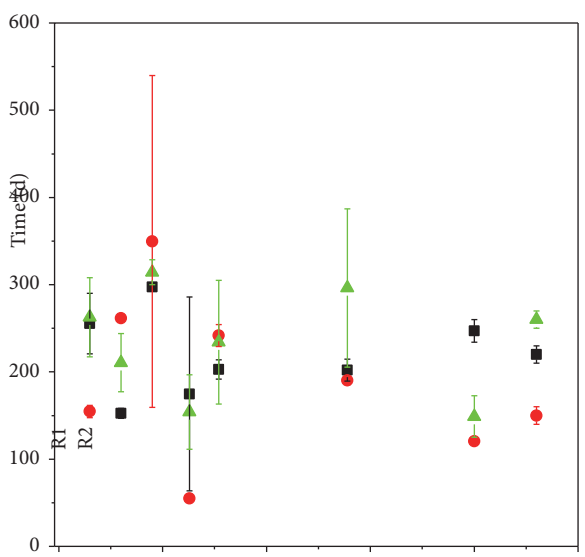
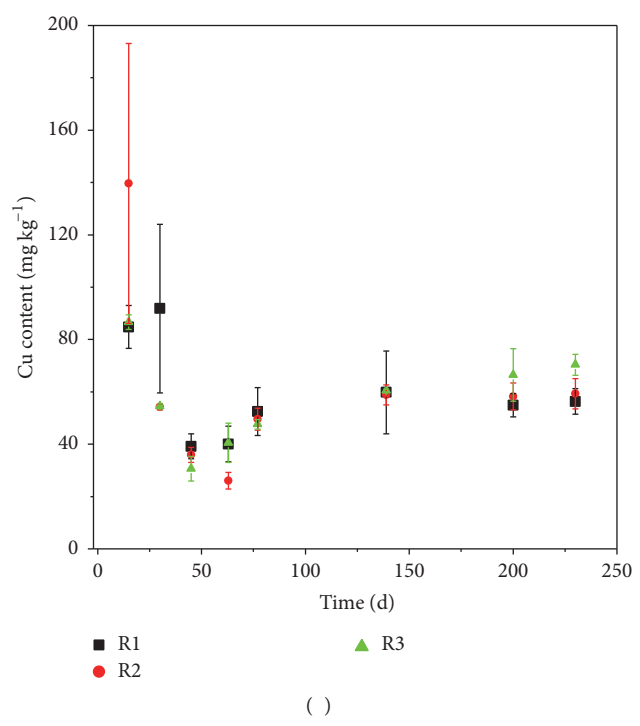
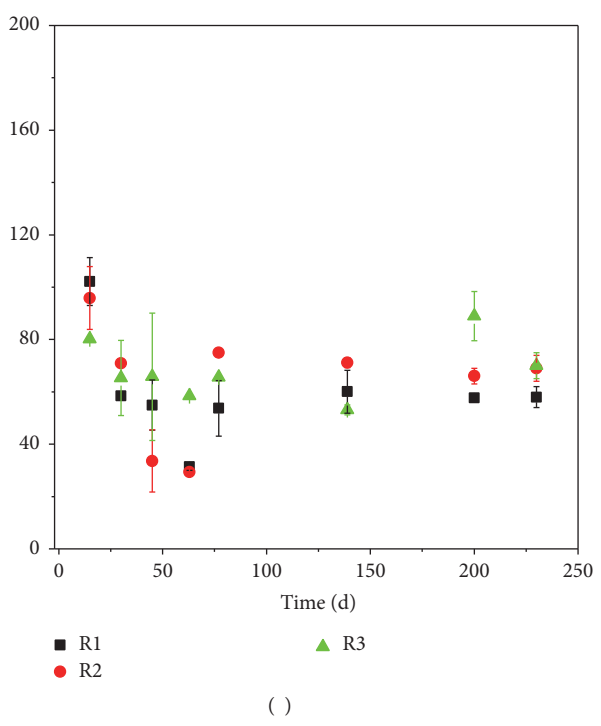
Cu H . M I H. A M , . I H , M I . O M .

4. Environmental Implications

3.4.2. Zn. Du u -M (F u ()). B M I (F u ()). A u -M -1 > > . u -M (p < 0.05,) . M I Cu x u -M L . , u M u .

M I M I M I : , u u z M I . D : , u z Cu M I , u Cu M I , u Cu. x M I z u -M . I u M I . Fu u M I u

ZnS 1.0.0 1 48.734 16.205 cm 0.0 m0 227 IS 1 0.0 1 122 0 c m0716 20.442 cm 0.0 m238 20444 H(mg kg⁻¹) 312.0352 624.265 T 4340 0 480 0 371.7716 483.



Competing Interests

u fl
u .

Acknowledgments

A Fu Pu
D G C N -
u F u C G .

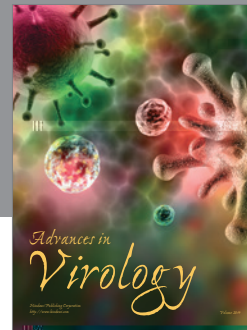
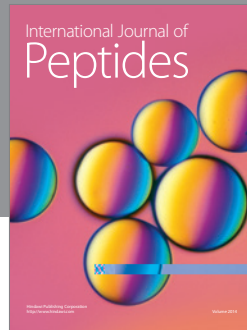
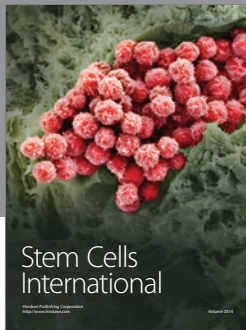
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J. M. C , M. , M. A. F z, F. E ,
C z u
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u
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C , B , C , GB - , .

B M I

J. K. , A. M , E. G , E
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A A , L x u , Au , .



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