materials

MDPI

Supplementary Material

Maize Stalk Material for On-Site Treatment of Highly Polluted Leachate and Mine Wastewater

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Table S1. Study of adsorption properties of cellulosic material for metal removal from aqueous solutions.

Raw or Modified Cellulosic Residue			Metals	Adsorption Capacity (mg/g)	Reference
Corn	stalk	acrylonitrile treatment	Cd(II)	12.73	[1]
		graft copolymerization	Cd(II)	21.37	[2]
		etherification	Cd(II)	12.73	[3]
			Pb(II)	31.80	
			Cu(II)	9.34	
		grafting	Cd(II)	22.17	
		activation with HCl	Cu(II)	0.03	[4]
			Fe(III)	0.05	
			Sb(III)	0.45	[5]
			Mo(VI)	0.40	
			Pb(II)	0.30	
		raw	Pb(II)	5.14	[6]
	straw		Cr(VI)	87.4	[7]
			Cr(III)	62.3	
	cob activated with organic acid		Cd(II)	8.89	[8]
Sunflower		leaves	Cu(II)	89.37	[9]
		stalk	Cd(II)	68.90	[10]
			Pb(II)	183	
Sugarcane bagasse			Ni(II)	2.00	[11]
Wheat straw		raw	Cr(VI)	126	[7]
			Cr(III)	69	
			Cd(II)	5.50	[12]
			Pb(II)	14.0	
		microwave pyrolyzed	Cd(II)	10.5	
			Pb(II)	33.5	
Rapeseed		raw	Cd(II)	31.6	
			Pb(II)	83.5	
		microwave pyrolyzed	Cd(II)	4.80	
			Pb(II)	26.2	

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