

學術活動暨研究成果

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公共衛生暨營養學院
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研究成果

Last data updates: 16 June 2006

Paper submitted: 15

Paper accepted: 10

Paper published:

Document type	Accepted	Publication	FA	CA	Times cited	Times self cited	CPP	CPP _{ex}
Article	9	55	46	24	1694	405	30.8	23.4
Review	0	3	2	1	89	24	29.7	21.7
Letter	1	20	19	19	86	72	4.30	0.70
Note	0	1	0	0	1	0	1	1
Editorial Material	0	8	7	8	38	28	4.75	1.25
Correction	0	1	1	1	0	0	0	0
Total	10	88	75	53	1908	529	21.7	15.7

FA: Publication with first author

CA: Publication with corresponding author

CPP: Citation per publication

CPP_{ex}: Citation per publication excludes self-citation

論文歸類計分統計表 (SCI/RPI)

五年內 (2001/1/1 – 2005/12/31) 之研究成果

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代; 卷數: 起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
1	1	Ho, Y.S.* , Ng, J.C.Y. and McKay, G., Removal of lead(II) from effluents by sorption on peat using second-order kinetics. <u>Separation Science and Technology 2001</u> ; 36 (2): 241-261. (SCI)	Chemical Engineering	38	3	4	5	60
2	1	Ho, Y.S.* , Chiang, C.C. and Hsu, Y.C., Sorption kinetics for dye removal from aqueous solution using activated clay. <u>Separation Science and Technology 2001</u> ; 36 (11): 2473-2488. (SCI)	Chemical Engineering	38	3	4	5	60
3	1	Ho, Y.S.* and Chiang, C.C., Sorption studies of acid dye by mixed sorbents. <u>Adsorption-Journal of the International Adsorption Society 2001</u> ; 7 (2): 139-147. (SCI)	Chemical Engineering	28	3	4	5	60
4	1	Ho, Y.S.* , Huang, C.T. and Huang, H.W., Equilibrium sorption isotherm for metal ions on tree fern. <u>Process Biochemistry 2002</u> ; 37 (12): 1421-1430. (SCI)	Chemical Engineering	17	3	5	5	75
5	2	Ho, Y.S.* , Comment on 'Removal of Ni ²⁺ and Cu ²⁺ ions from aqueous solutions on to lignite-based carbon', by S.E. Samra. <u>Adsorption Science & Technology 2002</u> ; 20 (2): 199-201. (SCI)	Chemical Engineering	54	2	3	6	36

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代；卷數：起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
6	1	Ho, Y.S. , Porter, J.F. and McKay, G., Equilibrium isotherm studies for the sorption of divalent metal ions onto peat: Copper, nickel and lead single component systems. Water Air and Soil Pollution 2002 ; 141 (1-4): 1-33. (SCI)	Water Resources	25	3	4	5	60
7	1	Ho, Y.S. and McKay, G., Application of kinetic models to the sorption of copper(II) on to peat. Adsorption Science & Technology 2002 ; 20 (8): 797-815. (SCI)	Chemical Engineering	54	3	3	5	45
8	1	Ho, Y.S.* , Removal of copper ions from aqueous solution by tree fern. Water Research 2003 ; 37 (10): 2323-2330. (SCI)	Water Resources	1.8	3	8	6	144
9	2	Ho, Y.S.* , Affinity dye-ligand poly(hydroxyethyl methacrylate)/chitosan composite membrane for adsorption lysozyme and kinetic properties G. Bayramoğlu, M. Yilmaz, M.Y. Arica. Biochemical Engineering Journal 2003 ; 15 (1): 77-78. (SCI)	Chemical Engineering	11	2	5	6	60
10	2	Ho, Y.S.* , Comment on ‘Adsorption of fluoride, phosphate, and arsenate ions on a new type of ion exchange fiber’ by R.X. Liu, J.L. Guo, and H.X. Tang. Journal of Colloid and Interface Science 2003 ; 262 (1): 307-308. (SCI)	Physical Chemistry	45	2	3	6	36
11	1	Ho, Y.S.* and McKay, G., Sorption of dyes and copper ions onto biosorbents. Process Biochemistry 2003 ; 38 (7): 1047-1061. (SCI)	Chemical Engineering	17	3	5	5	75
12	1	Ho, Y.S. , Chiu, C.H., Tseng, T.M. and Chiu, W.T., Assessing stem cell research productivity. Scientometrics 2003 ; 57 (3): 369-376. (SCI, SSCI)	Computer Science, Interdisciplinary Applications	29	3	4	5	60

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代；卷數：起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
13	2	Ho, Y.S.* , Letter to the editor. Journal of Chemical Technology and Biotechnology 2003 ; 78 (6): 724. (SCI)	Chemical Engineering	37	2	4	6	48
14	2	Chiu, W.T., Ho, Y.S. and Lee, Y.S., Sharp decline of injury mortality rate in a developing country. Journal of Trauma-Injury Infection and Critical Care 2003 ; 55 (2): 391-392. (SCI)	Surgery	29	2	4	3	24
15	1	Ho, Y.S.* , Removal of metal ions from sodium arsenate solution using tree fern. Process Safety and Environmental Protection 2003 ; 81 (B5): 352-356. (SCI)	Chemical Engineering	77	3	1	6	18
16	2	Ho, Y.S.* , Citation review of Lagergren kinetic rate equation on adsorption reactions. Scientometrics 2004 ; 59 (1): 171-177. (SCI, SSCI)	Computer Science, Interdisciplinary Applications	29	2	4	6	48
17	1	Ho, Y.S.* and Wang, C.C., Pseudo-isotherms for the sorption of cadmium ion onto tree fern. Process Biochemistry 2004 ; 39 (6), 759-763. (SCI)	Chemical Engineering	17	3	5	5	75
18	2	Ho, Y.S.* , Comment on “An alternative Avrami equation to evaluate kinetic parameters of the interaction of Hg(II) with thin chitosan membranes,” by E.C.N. Lopes, F.S.C. dos Anjos, E.F.S. Vieira, and A.R. Cestari. Journal of Colloid and Interface Science 2004 ; 272 (1), 249-250. (SCI)	Physical Chemistry	45	2	3	6	36
19	1	Ho, Y.S.* , Chiu, W.T., Hsu, C.S. and Huang, C.T., Sorption of lead ions from aqueous solution using tree fern as a sorbent. Hydrometallurgy 2004 ; 73 (1-2), 55-61. (SCI)	Metallurgy & Metallurgical Engineering	17	3	5	5	75

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代；卷數：起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
20	2	Ho, Y.S.* , “Kinetic modeling and equilibrium studies during cadmium biosorption by dead Sargassum sp biomass” by Cruz, C.C.V., da Costa, A.C.A., Henriques, C.A., Luna, A.S. Bioresource Technology 2004 ; 93 (3), 321-323. (SCI)	Agricultural Engineering	11	2	5	6	60
21	1	Hsieh, W.H., Chiu, W.T., Lee, Y.S. and Ho, Y.S.* , Bibliometric analysis of patent ductus arteriosus treatments. Scientometrics 2004 ; 60 (2), 205-215. (SCI & SSCI)	Computer Science, Interdisciplinary Applications	29	3	4	5	60
22	1	Chiu, W.T., Huang, J.S. and Ho, Y.S.* , Bibliometric analysis of severe acute respiratory syndrome-related research in the beginning stage. Scientometrics 2004 ; 61 (1), 69-77. (SCI & SSCI)	Computer Science, Interdisciplinary Applications	29	3	4	5	60
23	2	Ho, Y.S.* , Comment on “Removal of heavy metal ions by modified sawdust of walnut” by Bulut, Y. and Tez, Z. Fresenius Environmental Bulletin 2004 ; 13 (4), 370-373. (SCI)	Environmental Sciences	88	2	1	6	12
24	2	Ho, Y.S.* , Comment on “Removal of copper from aqueous solution by aminated and protonated mesoporous aluminas: Kinetics and equilibrium,” by S. Rengaraj, Y. Kim, C.K. Joo, and J. Yi. Journal of Colloid and Interface Science 2004 ; 276 (1), 255-258. (SCI)	Physical Chemistry	45	2	3	6	36
25	2	Ho, Y.S.* , Cadmium removal from aqueous solutions by chitin: Kinetic and equilibrium studies. Water Research 2004 ; 38 (12), 2962-2964. (SCI)	Water Resources	1.8	2	8	6	96
26	2	Ho, Y.S.* , Selection of optimum sorption isotherm. Carbon 2004 ; 42 (10), 2115-2116. (SCI)	Multidisciplinary Materials Science	9	2	5	6	60

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代；卷數：起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
27	2	Ho, Y.S.* , Comment on “Arsenic removal using mesoporous alumina prepared via a templating method”. Environmental Science & Technology 2004 ; 38 (11), 3214-3215. (SCI)	Environmental Sciences	3.0	2	8	6	96
28	1	Ho, Y.S.* , Pseudo-isotherms using a second order kinetic expression constant. Adsorption-Journal of the International Adsorption Society 2004 ; 10 (2), 151-158. (SCI)	Chemical Engineering	28	3	4	6	72
29	2	Ho, Y.S.* , Comments on “Collagen-fiber-immobilized tannins and their adsorption of Au(III)”. Industrial & Engineering Chemistry Research 2004 ; 43 (19), 6265. (SCI)	Chemical Engineering	15	2	5	6	60
30	1	Ho, Y.S. and McKay, G. Sorption of copper(II) from aqueous solution by peat. Water Air and Soil Pollution 2004 ; 158 (1), 77-97. (SCI)	Water Resources	25	3	4	5	60
31	2	Ho, Y.S.* , Comment on “Sorption of basic dyes from aqueous solution by activated sludge” [J. Hazard. Mater. 108 (2004) 183–188]. Journal of Hazardous Materials 2004 ; 114 (1-3), 241-245. (SCI)	Engineering, Civil	2.5	2	8	6	96
32	1	Ho, Y.S.* , Chiang, T.H. and Hsueh, Y.M., Removal of basic dye from aqueous solution using tree fern as a biosorbent. Process Biochemistry 2005 ; 40 (1), 119-124. (SCI)	Chemical Engineering	17	3	5	5	75
33	2	Zheng, S.K., Yang, Z.F., Jo, D.H., Park, Y.H. and Ho, Y.S.* , Comment on “Removal of chlorophenols from groundwater by chitosan sorption”. Water Research 2005 ; 39 (1), 264-268. (SCI)	Water Resources	1.8	2	8	0.5	8

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代；卷數：起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
34	1	Chiu, W.T. and Ho, Y.S.* , Bibliometric analysis of homeopathy research during the period of 1991 to 2003. Scientometrics 2005 ; 63 (1), 3-23. (SCI & SSCI)	Computer Science, Interdisciplinary Applications	29	3	4	5	60
35	1	Ho, Y.S.* , Comments on “Chitosan functionalized with 2[-bis-(pyridylmethyl) aminomethyl]4-methyl-6-formyl-phenol: Equilibrium and kinetics of copper(II) adsorption”. Polymer 2005 ; 46 (5), 1451-1452. (SCI)	Polymer Science	9.3	3	5	6	90
36	2	Ho, Y.S.* , Comment on “Adsorption of naphthalene on zeolite from aqueous solution” by C.F. Chang, C.Y. Chang, K.H. Chen W.T., Tsai, J.L. Shie, Y.H. Chen. Journal of Colloid and Interface Science 2005 ; 283 (1), 274-277. (SCI)	Physical Chemistry	45	2	3	6	36
37	2	Ho, Y.S.* , Comment on “Removal of heavy metals from aqueous solution by carbon nanotubes: adsorption equilibrium and kinetics” by Li, Y.H., Di, Z.C., Luan, Z.K., Ding, J., Zuo, H., Wu, X.Q., Xu, C.L. and Wu, D.H. Journal of Environmental Sciences-China 2005 ; 17 (1), 175-176. (SCI)	Environmental Sciences	97	2	1	6	12
38	1	Ho, Y.S.* , Comment on “Nitrate removal from aqueous solution by adsorption onto various materials” by N. Öztürk, T.E. Bektaş. Journal of Hazardous Materials 2005 ; 118 (1-3), 253-254. (SCI)	Engineering, Civil	2.5	3	8	6	144
39	1	Ho, Y.S.* , Effect of pH on lead removal from water using tree fern as the sorbent. Bioresource Technology 2005 ; 96 (11), 1292-1296. (SCI)	Agricultural Engineering	11	3	5	6	90

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代；卷數：起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
40	1	Ho, Y.S.* , Chiu, W.T. and Wang, C.C., Regression analysis for the sorption isotherms of basic dyes on sugarcane dust. Bioresource Technology 2005 ; 96 (11), 1285-1291. (SCI)	Agricultural Engineering	11	3	5	5	75
41	2	Ho, Y.S.* , Comment on “Two-stage batch sorber design using second-order kinetic model for the sorption of metal complex dyes onto pine sawdust” by Özacar, M. and Şengül, İ.A. Biochemical Engineering Journal 2005 ; 23 (3), 291-292. (SCI)	Chemical Engineering	11	2	5	6	60
42	1	Ho, Y.S.* and Ofomaja, A.E., Effects of calcium competition on lead sorption by palm kernel fibre. Journal of Hazardous Materials 2005 ; 120 (1-3), 157-162. (SCI)	Engineering, Civil	2.5	3	8	5	120
43	2	Ho, Y.S.* , Comment on “Biosorption of cadmium using the fungus <i>Aspergillus niger</i> ”. by Barros, L.M., Macedo, G.R., Duarte, M.M.L., Silva, E.R and Lobato, A.K.C.L. Brazilian Journal of Chemical Engineering 2005 ; 22 (2), 319-322. (SCI)	Chemical Engineering	87	2	1	6	12
44	2	Ho, Y.S.* , Comment on “Selective adsorption of tannins onto hide collagen fibres”. Science in China Series B-Chemistry 2005 ; 48 (2), 176. (SCI)	Multidisciplinary Chemistry	54	2	2	6	24
45	1	Taty-Costodes, V.C., Fauduet, H., Porte, C. and Ho, Y.S. , Removal of lead(II) ions from synthetic and real effluents using immobilized <i>Pinus sylvestris</i> sawdust: Adsorption on a fixed-bed column. Journal of Hazardous Materials 2005 ; 123 (1-3), 135-144. (SCI)	Engineering, Civil	2.5	3	8	1	24

序號	研究成果分類	五年內研究成果名稱及相關發表資料 (期刊名稱及發表年代；卷數：起迄頁數)	論文歸屬學門領域	最佳排名 (%)	論文性質分類 (C)	刊登雜誌分類排名 (J)	作者排名加權分數 (A)	分數 C×J×A
46	2	Ho, Y.S.* , Adsorption characteristics of zinc-cyanide complexes by waste brewery biomass. Journal of Industrial and Engineering Chemistry 2005 ; 11 (3), 478-479. (SCI)	Chemical Engineering	22	2	4	6	48
47	1	Chen, S.R., Chiu, W.T. and Ho, Y.S.* , Asthma in children: Mapping the literature by bibliometric analysis. Revue Française d'Allergologie et d'Immunologie Clinique 2005 ; 45 (6), 442-446. (SCI)	Allergy	93	3	1	5	15
48	1	Ho, Y.S.* , Harouna-Oumarou, H.A., Fauduet, H. and Porte, C., Kinetics and model building of a solid-liquid extraction of water-soluble compounds of Tilia sapwood. Separation and Purification Technology 2005 ; 45 (3), 169-173. (SCI)	Chemical Engineering	25	3	4	5	60
49	1	Ho, Y.S.* and Ofomaja, A.E., Kinetics and thermodynamics of lead ion sorption on palm kernel fibre from aqueous solution. Process Biochemistry 2005 ; 40 (11), 3455-3461. (SCI)	Chemical Engineering	17	3	5	5	75
50	2	Ho, Y.S.* , Comments on "Study on biosorption of Cr(VI) by Mucor hiemalis". Biochemical Engineering Journal 2005 ; 26 (1), 82-83. (SCI)	Chemical Engineering	11	2	5	6	60
51	2	Ho, Y.S.* , Comments on "Efficiency of membrane-sorption integrated processes". Journal of Membrane Science 2005 ; 263 (1-2), 160-161. (SCI)	Chemical Engineering	6	2	5	6	60
								3011

代表論文

合著人同意書

主論文 **Ho, Y.S.*** (2003), Removal of copper ions from aqueous solution by tree fern. *Water Research*, **37** (10), 2323-2330. (SCI)

代表著作中文譯名：蛇木屑去除水溶液中銅離子之研究

為單一作者無合著人

代表論文摘要

代表論文 (一)

Ho, Y.S.* (2003), Removal of copper ions from aqueous solution by tree fern. *Water Research*, **37** (10), 2323-2330. (SCI)

Rank 1st in citation from 529 articles of *Water Research* (2003), Last data updates: 07 May 2006

Abstract: Tree fern, an agricultural by-product, was used for the sorptive removal of copper ions from aqueous solution. The experimental data was analysed by Langmuir, Freundlich and Redlich-Peterson isotherms. The equilibrium sorption capacity of copper ions was determined from the Langmuir equation and found to be 11.7 mg/g. A batch sorption model, based on the assumption of the pseudo-second-order mechanism, was developed to predict the rate constant of sorption, the equilibrium sorption capacity and the initial sorption rate with the effect of initial copper ion concentration and the tree fern dose. Various thermodynamic parameters, such as ΔG^0 , ΔH^0 and ΔS^0 , have been calculated. The thermodynamics of copper ion/tree fern system indicates spontaneous and endothermic nature of the process.

Subject Categories:

Engineering, Civil: Impact Factor 1.512, 1/58 (1997); Impact Factor 1.616, 1/63 (1998)

Engineering, Environmental: Impact Factor 1.748, 3/36 (1999); Impact Factor 1.258, 3/36 (2000); Impact Factor 1.376, 5/38 (2001); Impact Factor 1.611, 3/37 (2002); Impact Factor 1.812, 4/35 (2003); Impact Factor 2.304, 3/35 (2004)

Environmental Sciences: Impact Factor 1.512, 20/117 (1997); Impact Factor 1.616, 17/126 (1998); Impact Factor 1.748, 17/126 (1999); Impact Factor 1.258, 30/127 (2000); Impact Factor 1.376, 31/129 (2001); Impact Factor 1.611, 24/132 (2002); Impact Factor 1.812, 23/131 (2003); Impact Factor 2.304, 14/134 (2004)

Water Resources: Impact Factor 1.512, 2/44 (1997); Impact Factor 1.616, 3/46 (1998); Impact Factor 1.748, 2/46 (1999); Impact Factor 1.258, 2/47 (2000); Impact Factor 1.376, 2/50 (2001); Impact Factor 1.611, 3/53 (2002); Impact Factor 1.812, 1/55 (2003); Impact Factor 2.304, 1/55 (2004)

ISI highly cited article

Cited by papers as follows:

1. Nacèra, Y. and Aicha, B. (2006), Equilibrium and kinetic modelling of methylene blue biosorption by pretreated dead streptomyces rimosus: Effect of temperature. *Chemical Engineering Journal*, (Accepted).
2. Bhattacharyya, K.G. and Gupta, S.S. (2006), Kaolinite, montmorillonite, and their modified derivatives as adsorbents for removal of Cu(II) from aqueous solution. *Separation and Purification Technology*, (Accepted).
3. Senthilkumaar, S., Kalaamani, P., Porkodi, K., Varadarajan, P.R. and Subburaam, C.V. (2006), Adsorption of dissolved Reactive red dye from aqueous phase onto activated carbon prepared from agricultural waste. *Bioresource Technology*, (Accepted).
4. Pehlivan, E., Cetin, S. and Yanik, B.H. (2006), Equilibrium studies for the sorption of zinc and copper from aqueous solutions using sugar beet pulp and fly ash. *Journal of Hazardous Materials*, **135** (1-3), 193-199.
5. Ho, Y.S. (2004), Comment on "An alternative Avrami equation to evaluate kinetic parameters of the interaction of Hg(II) with thin chitosan membranes" by E.C.N. Lopes, F.S.C. dos Anjos, E.F.S. Vieira, and A.R. Cestari. *Journal of Colloid and Interface Science*, **272** (1), 249-250.
6. Silva, J.P., Sousa, S., Rodrigues, J., Antunes, H., Porter, J.J., Gonçalves, I. and Ferreira-Dias, S. (2004), Adsorption of acid orange 7 dye in aqueous solutions by spent brewery grains. *Separation and Purification Technology*, **40** (3), 309-315.
7. Lodeiro, P., Barriada, J.L., Herrero, R. and Sastre de Vicente, M.E. (2006), The marine macroalga *Cystoseira baccata* as biosorbent for cadmium(II) and lead(II) removal: Kinetic and equilibrium studies. *Environmental Pollution*, **142** (2), 264-273.
8. Chingombe, P., Saha, B. and Wakeman, R.J. (2006), Effect of surface modification of an engineered activated carbon on the sorption of 2,4-dichlorophenoxyacetic acid and benazolin from water. *Journal of Colloid and Interface Science*, **297** (2), 434-442.
9. Crini, G. (2006), Non-conventional low-cost adsorbents for dye removal: A review. *Bioresource Technology*, **97** (9), 1061-1085.
10. Bhattacharyya, K.G. and Gupta, S.S. (2006), Pb(II) uptake by kaolinite and montmorillonite in aqueous medium: Influence of acid activation of the clays.

- Colloids and Surfaces A-Physicochemical and Engineering Aspects*, **277** (1-3), 191-200.
11. Ferruti, P., Ranucci, E., Bianchi, S., Falciola, L., Mussini, P.R. and Ross, M. (2006), Novel polyamidoamine-based hydrogel with an innovative molecular architecture as a Co^{2+} -, Ni^{2+} -, and Cu^{2+} -sorbing material: Cyclovoltammetry and extended X-ray absorption fine structure studies. *Journal of Polymer Science Part A: Polymer Chemistry*, **44** (7), 2316-2327.
 12. Herrero, R., Cordero, B., Lodeiro, P., Rey-Castro, C. and Sastre de Vicente, M.E. (2006), Interactions of cadmium(II) and protons with dead biomass of marine algae *Fucus sp.* *Marine Chemistry*, **99** (1-4), 106-116.
 13. Wang, X.S., Qin, Y. and Li, Z.F. (2006), Biosorption of zinc from aqueous solutions by rice bran: Kinetics and equilibrium studies. *Separation Science and Technology*, **41** (4), 747-756.
 14. Gupta S.S. and Bhattacharyya, K.G. (2006), Removal of Cd(II) from aqueous solution by kaolinite, montmorillonite and their poly(oxo zirconium) and tetrabutylammonium derivatives. *Journal of Hazardous Materials*, **128** (2-3), 247-257.
 15. O'Connell, D.W., Birkinshaw, C. and O'Dwyer, T.F. (2006), A chelating cellulose adsorbent for the removal of Cu(II) from aqueous solutions. *Journal of Applied Polymer Science*, **99** (6), 2888-2897.
 16. Weng, C.H. and Pan, Y.F. (2006), Adsorption characteristics of methylene blue from aqueous solution by sludge ash. *Colloids and Surfaces A-Physicochemical and Engineering Aspects*, **274** (1-3), 154-162.
 17. Crini, G. and Peindy, H.N. (2006), Adsorption of C.I. Basic Blue 9 on cyclodextrin-based material containing carboxylic groups. *Dyes and Pigments*, **70** (3), 204-211.
 18. Yan, C.Z., Wang, S.R., Zeng, A.Y., Jin, X.C., Xu, Q.J. and Zhao, J.Z. (2005), Equilibrium and kinetics of copper(II) biosorption by *Myriophyllum spicatum* L.. *Journal of Environmental Sciences-China*, **17** (6), 1025-1029.
 19. Ramesh, A., Lee, D.J. and Wong, J.W.C. (2005), Thermodynamic parameters for adsorption equilibrium of heavy metals and dyes from wastewater with low-cost adsorbents. *Journal of Colloid and Interface Science*, **291** (2), 588-592.
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代表論文 (二)

Ho, Y.S.* and Chiang, C.C. (2001), Sorption studies of acid dye by mixed sorbents. *Adsorption-Journal of the International Adsorption Society*, **7** (2), 139-147. (SCI)

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Abstract: The sorption of Acid Blue 9 onto the mixture of activated clay and activated carbon has been studied in terms of pseudo-first order and pseudo-second order chemical sorption processes. The batch sorption model, based on the assumption of a pseudo-second order mechanism, has been developed to predict the rate constant of sorption and the equilibrium capacity with the effect of initial dye concentration, mass of mixed sorbent, temperature and initial solution pH. The rates of sorption were found to conform to pseudo-second order kinetics with good correlation. Batch isotherm studies showed that the sorption of Acid Blue 9 by the mixed sorbent from aqueous solution was described by the Langmuir isotherm equation. A comparison of the evaluated equilibrium capacity of sorption has been made by the pseudo-second order rate equation as well as by the Langmuir isotherm and operating line method. In addition, an activation energy of sorption has also been determined based on the pseudo-second order rate constants.

Subject Categories:

Chemistry, Physical: Impact Factor 1.043, 55/90 (1999); Impact Factor 0.691, 69/91 (2000); Impact Factor 0.931, 65/93 (2001); Impact Factor 1.097, 56/95 (2002); Impact Factor 0.983, 72/101 (2003); Impact Factor 1.063, 74/106 (2004)

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Ho, Y.S.*, Huang, C.T. and Huang, H.W. (2002), Equilibrium sorption isotherm for metal ions on tree fern. *Process Biochemistry*, **37** (12), 1421-1430. (SCI)

代表著作中文譯名：蛇木屑吸附金屬離子之平衡等溫線研究

Rank 1st in citation from 211 papers of *Process Biochemistry* (2002), Last data updates: 07 May 2006

Abstract: A new sorbent system for removing heavy metal ions, such as Zn(II), Cu(II) and Pb(II), from aqueous solutions has been investigated. This new sorbent is tree fern, an agriculture product. Variables of the system include solution temperature and sorbent particle size. The experimental results were fitted to the Langmuir, Freundlich and Redlich-Peterson isotherms to obtain the characteristic parameters of each model. Both the Langmuir and Redlich-Peterson isotherms were found to well represent the measured sorption data. According to the evaluation using the Langmuir equation, the maximum sorption capacities of metal ions onto tree fern were 7.58 mg/g for Zn(II), 10.6 mg/g for Cu(II) and 39.8 mg/g for Pb(II). It was noted that an increase in temperature resulted in a higher metal loading per unit weight of the sorbent. Decreasing the particle sizes of tree fern led in an increase in the metal uptake per unit weight of the sorbent.

Subject Categories:

Biochemistry & Molecular Biology: Impact Factor 0.874, 225/295 (1999); Impact Factor 0.774, 252/310 (2000); Impact Factor 0.869, 243/308 (2001); Impact Factor 1.143, 194/266 (2002); Impact Factor 1.073, 109/261 (2003); Impact Factor 1.375, 191/261 (2004)

Biotechnology & Applied Microbiology: Impact Factor 0.874, 68/124 (1999); Impact Factor 0.774, 80/134 (2000); Impact Factor 0.869, 77/131 (2001); Impact Factor 1.143, 60/131 (2002); Impact Factor 1.073, 74/132 (2003); Impact Factor 1.375, 68/133 (2004)

Engineering, Chemical: Impact Factor 0.874, 25/110 (1999); Impact Factor 0.774, 26/117 (2000); Impact Factor 0.869, 32/123 (2001); Impact Factor 1.143, 17/126 (2002); Impact Factor 1.073, 28/119 (2003); Impact Factor 1.375, 20/116 (2004)

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Ho, Y.S.*, Chiu, W.T., Hsu, C.S. and Huang, C.T. (2004), Sorption of lead ions from aqueous solution using tree fern as a sorbent. *Hydrometallurgy*, **73** (1-2), 55-61. (SCI)

代表著作中文譯名：蛇木屑吸附水溶液中鉛離子之研究

Rank 1st in citation from 127 papers of *Hydrometallurgy* (2004), Last data updates: 07 May 2006

ISI highly cited article

Abstract: This study is on sorption of lead ions on an agricultural by-product, tree fern. Equilibrium isotherms have been measured and modeled. The equilibrium sorption capacity of lead(II) was determined from the Langmuir isotherm and found to be 40.0 mg/g. Based on the assumption of the pseudo-second order mechanism, a batch sorption model was developed to predict the rate constant of sorption, the equilibrium sorption capacity and the initial sorption rate with the effect of initial lead(II) concentration and temperature. The sorption rate was found to increase with temperature, and an activation energy of approximately 87 kJ/mol was determined from the pseudo-second order rate constants. The findings of this investigation suggest that chemical sorption plays a role in controlling the sorption rate.

Subject Categories:

Metallurgy & Metallurgical Engineering: Impact Factor 0.846, 10/65 (2000); Impact Factor 0.654, 19/67 (2001); Impact Factor 1.087, 11/69 (2002); Impact Factor 1.14, 10/72 (2003); Impact Factor 1.088, 12/71 (2004)

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Ho, Y.S.*, Chiang, T.H. and Hsueh, Y.M. (2005), Removal of basic dye from aqueous solution using tree fern as a biosorbent. *Process Biochemistry*, **40** (1), 119-124. (SCI)

代表著作中文譯名：蛇木屑去除水溶液中鹼性染料之研究

Rank 1st in citation from 473 papers of *Process Biochemistry* (2005), Last data updates: 07 May 2006

Abstract: A batch sorption system using tree fern as biosorbent was investigated to remove Basic Red 13 from aqueous solutions. The system variables studied include sorbent particle size and temperature and results revealed the potential of tree fern, an agriculture product, as a low-cost sorbent. The Langmuir isotherm was found to represent the measured sorption data well. The dye sorption capacity of tree fern increased as the sorbent particle size decreased. Maximum saturated monolayer sorption capacity of tree fern for Basic Red 13 was 408 mg/g. Various thermodynamic parameters such as ΔG° , ΔH° and ΔS° were calculated indicating that this system was a spontaneous and endothermic process.

Subject Categories:

Biochemistry & Molecular Biology: Impact Factor 0.874, 225/295 (1999); Impact Factor 0.774, 252/310 (2000); Impact Factor 0.869, 243/308 (2001); Impact Factor 1.143, 194/266 (2002); Impact Factor 1.073, 109/261 (2003); Impact Factor 1.375, 191/261 (2004)

Biotechnology & Applied Microbiology: Impact Factor 0.874, 68/124 (1999); Impact Factor 0.774, 80/134 (2000); Impact Factor 0.869, 77/131 (2001); Impact Factor 1.143, 60/131 (2002); Impact Factor 1.073, 74/132 (2003); Impact Factor 1.375, 68/133 (2004)

Engineering, Chemical: Impact Factor 0.874, 25/110 (1999); Impact Factor 0.774, 26/117 (2000); Impact Factor 0.869, 32/123 (2001); Impact Factor 1.143, 17/126 (2002); Impact Factor 1.073, 28/119 (2003); Impact Factor 1.375, 20/116 (2004)

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Document type: Article	Language: English	Cited references: 36	Times cited: 0	Times self cited: 0
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Document type: Article	Language: English	Cited references: 143	Times cited: 0	Times self cited: 0
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Document type: Article	Language: English	Cited references: 32	Times cited: 0	Times self cited: 0
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8. **Ho, Y.S.*** (2006), Bibliometric analysis of biosorption technology in water treatment research from 1991 to 2004. *International Journal of Environment and Pollution*. (Accepted)

Document type: Article	Language: English	Cited references: 17	Times cited: 0	Times self cited: 0
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Document type: Article	Language: English	Cited references: 20	Times cited: 5	Times self cited: 3
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Document type: Article	Language: English	Cited references: 19	Times cited: 13	Times self cited: 8
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Document type: Article	Language: English	Cited references: 14	Times cited: 0	Times self cited: 0
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Document type: Article	Language: English	Cited references: 29	Times cited: 18	Times self cited: 1
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Document type: Article	Language: English	Cited references: 18	Times cited: 53	Times self cited: 13
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Document type: Article	Language: English	Cited references: 31	Times cited: 64	Times self cited: 15
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Document type: Article	Language: English	Cited references: 28	Times cited: 8	Times self cited: 1
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Document type: Article	Language: English	Cited references: 11	Times cited: 180	Times self cited: 33
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Document type: Article	Language: English	Cited references: 19	Times cited: 17	Times self cited: 2
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Document type: Article	Language: English	Cited references: 39	Times cited: 22	Times self cited: 0
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Document type: Article	Language: English	Cited references: 85	Times cited: 203	Times self cited: 25
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Document type: Article	Language: English	Cited references: 41	Times cited: 17	Times self cited: 11
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Document type: Article	Language: English	Cited references: 49	Times cited: 20	Times self cited: 4
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Document type: Article	Language: English	Cited references: 23	Times cited: 50	Times self cited: 20
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Document type: Article	Language: English	Cited references: 42	Times cited: 120	Times self cited: 29
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Document type:	Language:	Cited references:	Times cited:	Times self cited:
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Article	English	12	70	28
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Document type: Article	Language: English	Cited references: 20	Times cited: 86	Times self cited: 15
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