

## REFERENCES

1. Nyenje, P.M., Foppen, J.W., Uhlenbrook, S., Kulabako, R. and Muwanga, A., 2010, "Eutrophication and Nutrient Release in Urban Areas of Sub-Saharan Africa – A Review", **Science of the Total Environment**, Vol. 408, pp. 447-455.
2. Gray N.F., 2004, **Biology of Wastewater Treatment**, 2<sup>nd</sup> ed., Imperial College Press, London.
3. USEPA, 1976, "Quality Criteria for Water", **United States Environmental Protection, USA**, Rep 440, pp. 19-76-023.
4. Terry, N. and Banuelos, G., 2000, **Phytoremediation of Contaminated Soil and Water**, Lewis Publ, Boca Raton, London, New York, Washington D.C., pp. 389.
5. Lu, Q., He, Z.L., Graetz, D.A., Stoffella, P.J. and Yang, X., 2010, "Phytoremediation to Remove Nutrients and Improve Eutrophic Stormwaters Using Water Lettuce (*Pistiastratiotes* L.)", **Environmental Science and Pollution Research**, Vol. 17, pp. 84-96.
6. Mahujchariyawong, J. and Ikeda, S., 2001, "Modelling of Environmental Phytoremediation in Eutrophic River-the Case of Water Hyacinth Harvest in Tha-Chin River, Thailand", **Ecological Modeling**, Vol. 142, pp. 121-134.
7. Lone, M.I., He, Z.L., Stoffella, P.J. and Yang, X.E., 2008, "Phytoremediation of Heavy Metal Polluted Soils and Water: Progresses and Perspectives", **Journal of Zhejiang University SCIENCE B**, Vol. 9, pp. 210-220.
8. Crites, R.W., Middlebrooks, E.J. and Reed, S.C., 2006, **Natural Wastewater Treatment Systems**, CRC Press, Taylor & Francis Group, Boca Raton.
9. Schachtman, D.P., Reid, R.J. and Ayling, S.M., 1998, "Phosphorus Uptake by Plants: from Soil to Cell", **Plant Physiology**, Vol. 116, pp. 447-453.
10. Fraser, L.H., Carty, S.M. and Steer, D., 2004, "a Test of Four Plant Species to Reduce total Nitrogen and Total Phosphorus from Soil Leachate in Subsurface Wetland Microcosms", **Bioresource Technology**, Vol. 94, pp. 185-192.
11. Vymazal, J., 2007, "Removal of Nutrients in Various Types of Constructed Wetlands", **Science of the Total Environment**, Vol. 380, pp. 48-65.
12. Yang, Q., Tam, N.F.Y., Wong, Y.S., Luan, T.G., Su, W.S., Lan, C.Y., Shin, P.K.S. and Cheung, S.G., 2008, "Potential Use of Mangrove as Constructed Wetland for Municipal Sewage Treatment in Futian, Shenzhen, China", **Marine Pollution Bulletin**, Vol. 57, pp. 735-743.

13. Zhang, C.B., Wang, J., Liu, W.L., Zhu, S.X., Liu, D., Chang, S.X., Chang, J. and Ge, Y., 2010, "Effects of Plant Diversity on Nutrient Retention and Enzyme Activities in a Full-Scale Constructed Wetland", **Bioresource Technology**, Vol. 101, pp. 1686-1692.
14. Hu, M.H., Ao, Y.S., Yang, X.E. and Li, T.Q., 2008, "Treating Eutrophic Water for Nutrient Reduction Using an Aquatic Macrophyte (*Ipomoea Aquatic* Forsskal) in a Deep Flow Technique System", **Agricultural Water Management**, Vol. 95, pp. 607-615.
15. Priya, P. and Sahi, S.V., 2009, "Influence of Phosphorus Nutrition on Growth and Metabolism of Duo Grass (*Duo festulolium*)", **Plant Physiology and Biochemistry**, Vol. 47, pp. 31-36.
16. Seo, B.S., Park, C.M., Song, U. and Park, W.J., 2010, "Nitrate and Phosphate Removal Potentials of Three Willow Species and a Bald Cypress from Eutrophic Aquatic Environment", **Landscape and Ecological Engineering**, Vol. 6, pp. 211-217.
17. Zheng, Z.C., Li, T.X., Zeng, F.F., Zhang, X.Z., Yu, H.Y., Wang, Y.D. and Liu, T., 2013, "Accumulation Characteristics of and Removal of Nitrogen and Phosphorus from Livestock Wastewater by *Polygonum hydropiper*", **Agricultural Water Management**, Vol. 117, pp. 19-25.
18. Thongtha, S., Teamkao, P., Boonapatcharoen, N., Tripetchkul, S., Techkarnjararuk, S. and Thiravetyan, P., 2014, "Phosphorus Removal from Domestic Wastewater by *Nelumbo nucifera* Gaertn. and *Cyperus ternifolius* L." **Journal of Environmental Management**, Vol. 137, pp. 54-60.
19. Sawayama, S., Rao, K.K. and Hall, D.O., 1998a, "Nitrate and Phosphate Ion Removal from Water by Phormidiumlamino- Sum Immobilized on Hollow Fibres in a Photobioreactor", **Applied Microbiology and Biotechnology**, Vol. 49, pp. 463-468.
20. Chevalier, P., Proulx, D., Lessard, P., Vincent, W.F. and De La Noue, J., 2000, "Nitrogen and Phosphorus Removal by High Latitude Mat-Forming Cyanobacteria for Potential Use in Tertiary Wastewater Treatment", **Journal of Applied Phycology**, Vol. 12, pp. 105-112.
21. Nagadomi, H., Kitamura, T., Watanabe, M. and Sasaki, K., 2000, "Simultaneous Removal of Chemical Oxygen Demand (COD), Phosphate, Nitrate and H<sub>2</sub>S in the Synthetic Sewage Wastewater Using Porous Ceramic Immobilized Photosynthetic Bacteria", **Biotechnology Letters**, Vol. 22, pp. 1369-1374.
22. Choi, S.S. and Yoo, Y.J., 2000, "Removal of Phosphate in a Sequencing Batch Reactor by *Staphylococcus auricularis*", **Biotechnology Letters**, Vol. 22, pp. 1549-1552.

23. Krishnaswamy U., Muthusamy M. and Perumalsamy L., 2009, "Studies on the Efficiency of the Removal of Phosphate Using Bacterial Consortium for the Biotreatment of Phosphate Wastewater", **European Journal of Applied Sciences**, Vol. 1, pp. 06-15.
24. Ramothokang, TR., Simelane, S.C. and Bux, F., "Biological Nitrogen and Phosphorus Removal by Filamentous Bacteria in Pure Culture", **Water Institute of South Africa (WISA) Biennial Conference**, 21-25 May 2006, Durban, South Africa.
25. Su, Y., Mennerich, A. and Urban, B., 2011, "Municipal Wastewater Treatment and Biomass Accumulation with a Wastewater-Born and Settleable Algal-Bacterial Culture", **Water Research**, Vol. 45, pp. 3351-3358.
26. Chang, H.Q., Yang, X.E., Fang, Y.Y., Pu, P.M., Li, Z.K. and Rengel, Z., 2006, "In-Situ Nitrogen Removal from the Eutrophic Water by Microbial-Plant Integrated System", **Journal of Zhejiang University Science B**, Vol. 7, pp. 521-531.
27. Zhao, F., Zhang, S., Ding, Z., Aziz, R., Rafiq, M.T., Li, H., He, Z., Stoffella, P.J. and Yang, X., 2013, "Enhanced Purification of Eutrophic Water by Microbe-Inoculated Stereo Floating Beds", **Polish Journal of Environmental Studies**, Vol. 22, pp. 957-964.
28. Li, H., Zhao, H.P., Hao, H.L., Liang, J., Zhao, F.L., Xiang, L.C., Yang, X.E., He, Z.L. and Stoffella, P.J., 2011, "Enhancement of Nutrient Removal from Eutrophic Water by a Plant-Microorganisms Combined System", **Environmental Engineering Science**, Vol. 28, pp. 543-554.
29. Mengel, K., Kirkby, E.A., Kosegarten, H. and Appel, T., 2001, **Principles of Plant Nutrition**, 5<sup>th</sup> ed., Kluwer Academic Publishers, Dordrecht, Boston, London.
30. Wikipedia, the Free Encyclopedia, **What is Nitrogen** [Online], Available : <http://en.wikipedia.org/wiki/Nitrogen> [2010, September 10].
31. Grusak, M., 2007, "Plant Macro- and Micronutrient Minerals", in **Handbook of Plant Science**, John Wiley & Sons, Ltd., pp. 842-845.
32. Wikipedia, the Free Encyclopedia, **What is Phosphorus** [Online], Available : <http://en.wikipedia.org/wiki/Phosphorus> [2010, September 10].
33. Avocadosource.com [Online], Available : [http://www.avocadosource.com/tools/FertCalc\\_files/info\\_phosphorus.htm](http://www.avocadosource.com/tools/FertCalc_files/info_phosphorus.htm) [2010, August 5].
34. Wikipedia, the Free Encyclopedia, **Echinodorus cordifolius** [Online], Available : [http://en.wikipedia.org/wiki/Echinodorus\\_cordifolius](http://en.wikipedia.org/wiki/Echinodorus_cordifolius) [2010, September 4].

35. Global.britannica.com [Online], Available : <http://global.britannica.com/EBchecked/topic/177941/Echinodorus-cordifolius> [2010, September 4].
36. Plants.usda.gov [Online], Available : <http://plants.usda.gov/core/profile?symbol=ecco3> [2014, April 21].
37. Wikipedia, the Free Encyclopedia, *Sagittaria montevidensis* [Online], Available : [http://en.wikipedia.org/wiki/Sagittaria\\_montevidensis](http://en.wikipedia.org/wiki/Sagittaria_montevidensis) [2010, September 4].
38. Jiensuwan, S., 2005, **Effect of Salinity on Nutrient and Heavy Metal Treatment in Domestic Wastewater of Constructed Wetland Planted with Mangrove Species Using Batch System**, M.S. Thesis, Chulalongkorn University, pp. 200.
39. Udomsinroj, G., 1999, **Wastewater Treatment**, 2<sup>nd</sup> ed., Siam Stationery Supply, Ltd.
40. Jabeen, R., Ahmad, A. and Iqbal, M., 2009, “Phytoremediation of Heavy Metals: Physiological and Molecular Mechanisms”, **the Botanical Review**, Vol. 75, pp. 339–364.
41. Wungnai, A., 2010, **BIOREMEDIATION**, Chula Press Publ., pp. 351.
42. Rajkumar, M., Ae, N., Prasad, M.N.V. and Freitas, H., 2010, “Potential of Siderophore-Producing Bacteria for Improving Heavy Metal Phytoextraction”, **Trends in Biotechnology**, Vol. 28, pp. 142-149.
43. Suslov, T.V., 1982, “Role of Root-Colonizing Bacteria in Plant Growth”, in **Phytopathogenic Prokaryotes**, Mount M.S. and Lacy G.H., Academic Press, London, pp. 187–223.
44. Kloepper, J.W., Lifshitz, K. and Zablotowicz, R.M., 1989, “Free-Living Bacterial Inocula for Enhancing Crop Productivity”, **Trends in Biotechnology**, Vol. 7, pp. 39–43.
45. APHA-AWWA-WEF, 1992, **Standard Method for the Examination of Water and Wastewater**, 20<sup>th</sup> ed., American Public Health Association, pp. 4-75 – 4-97.
46. APHA-AWWA-WEF, 1998, **Standard Method for the Examination of Water and Wastewater**, 20<sup>th</sup> ed., American Public Health Association, pp. 4-139.
47. Leechart, P., Nakbanpote, W. and Thiravetyan, P., 2009, “Application of ‘Waste’-Wood-Shaving Bottom Ash for Adsorption of Azo Reactive Dye”, **Journal of Environmental Management**, Vol. 90, pp. 912-920.

48. Shukla, A., Zhang, Y.H., Dubey, P., Margrave, J.L. and Shukla, S.S., 2002, “the Role of Sawdust in the Removal of Unwanted Materials from Water”, **Journal of Hazardous Materials**, Vol. 95, pp. 137-152.
49. Baker, N.R., 1991, “a Possible Role for Photosystem II in Environmental Perturbations of Photosynthesis”, **Physiologia Plantarum**, Vol. 81, pp. 563-570.
50. Navarro, A.F., Cegarra, J., Roig, A. and Garcia, D., 1993, “Relationships between Organic Matter and Carbon Contents of Organic Wastes”, **Bioresource Technology**, Vol. 44, pp. 203-207.
51. A.O.A.C., 1980, **Official Methods of Analysis**, 13<sup>th</sup> ed., Association of Official Analytical Chemists, Washington D.C., pp. 376-384.
52. Reddy, K.R. and DeLaune, R.D., 2008, **Biogeochemistry of wetlands: Science and Applications**, CRC Press, Boca Raton.
53. Pessarakli, M., 1999, **Handbook of Plant and Crop Stress**, Marcel Dekker Inc., New York, USA.
54. El-Gendy, A.S., Biswas, N. and Bewtra, J.K., 2004, “Growth of Water Hyacinth in Municipal Landfill Leachate with Different pH”, **Environmental Technology**, Vol. 25, pp. 833-840.
55. Hao, F.L. and Shen, M.W., 2006, “Effect of pH Adjustment on Purifying Efficiency of Water Hyacinth in Cultivated Wastewater”, **Journal of Shanghai Jiaotong University - Agricultural Science**, Vol. 24, pp. 196-199.
56. Moronta, R., Mora, R. and Morales, E., 2006, “Response of the Microalga *Chlorella sorokinianato* pH, Salinity and Temperature in Axenic and Non Axenic Conditions. Revista De La Facultad De Agronomia”, Universidad Del Zulia, Vol. 23, pp. 28-43.
57. Bowden, L.I., Jarvis, A.P., Younger, P.L. and Johnson, K.L., 2009, “Phosphorus Removal from Waste Waters Using Basic Oxygen Steel Slag”, **Environmental Science and Technology**, Vol. 43, pp. 2476-2481.
58. Raghothama, K.G., 2000, “Phosphate Transport and Signaling”, **Current Opinion in Plant Biology**, Vol. 3, pp. 182-187.
59. Brix, H., 1997, “Do Macrophytes Play a Role in Constructed Treatment Wetlands”, **Water Science and Technology**, Vol. 35, pp. 11-17.
60. Nakas, J.P. and Hagedorn, C., **Biotechnology of Plant-Microbe Interaction**, McGraw-Hill Publishing Company, New York.

61. Bindu, T., Sylas, V.P., Mahesh, M., Rakesh, P.S. and Ramasamy, E.V., 2008, "Pollutant Removal from Domestic Wastewater with Taro (*Colocasia esculenta*) Planted in a Subsurface Flow System", **Ecological Engineering**, Vol. 33, pp. 68-82.
62. Babatunde, A.O., Zhao, Y.Q., Burke, A.M., Morris, M.A. and Hanrahan, J.P., 2009, "Characterization of Aluminium-Based Water Treatment Residual for Potential Phosphorus Removal in Engineered Wetlands", **Environmental Pollution**, Vol. 157, pp. 2830-2836.
63. Korkusuz, E.A., Beklioglu, M. and Demirer, G.N., 2007, "Use of Blast Furnace Granulated Slag as a Substrate in Vertical Flow Reed Beds: Field Application", **Bioresource Technology**, Vol. 98, pp. 2089-2101.
64. Shen, J., Yuan, L., Zhang, J., Li, H., Bai, Z., Chen, X., Zhang, W. and Zhang, F., 2011, "Phosphorus Dynamics: from Soil to Plant", **Plant Physiology**, Vol. 156, pp. 997-1005.
65. Chung, A.K.C., Wu, Y., Tam, N.F.Y. and Wong, M.H., 2008, "Nitrogen and Phosphate Mass Balance in a Sub-Surface Flow Constructed Wetland for Treating Municipal Wastewater", **Ecological Engineering**, Vol. 32, pp. 81-89.
66. Krause, G.H. and Weis, E., 1991, "Chlorophyll Fluorescence and Photosynthesis: the Basics", **Annual Review of Plant Physiology and Plant Molecular Biology**, Vol. 42, pp. 313-349.
67. CAO, B., DANG, Q.L. and ZHANG, S., 2007, "Relationship between Photosynthesis and Leaf Nitrogen Concentration in Ambient and Elevated [CO<sub>2</sub>] in White Birch Seedlings", **Tree Physiology**, Vol. 27, pp. 891-899.
68. Peng, S., Krieg, D. R. and Girma, F.S., 1991, "Leaf Photosynthetic Rate is Correlated with Biomass and Grain Production in Grain Sorghum Lines", **Photosynthesis Research**, Vol. 28, pp. 1-7.
69. Atkinson, M.J. and Smith, S.V., 1983, "C:N:P Ratios of Benthic Marine Plants", **Limnology and Oceanography**, Vol. 28, pp. 568-574.
70. Duarte, C.M., 1992, "Nutrient Concentration of Aquatic Plants: Patterns Across Species", **Limnology and Oceanography**, Vol. 37, pp. 882-889.
71. Baldantoni, D., Alfani, A., Tommasi, P.D., Bartoli, G. and Santo, A.V.D., 2004, "Assessment of Macro and Microelement Accumulation Capability of Two Aquatic Plants", **Environmental Pollution**, Vol. 130, pp. 149-156.
72. Cooper, P.F., Job, G.D., Green, M.B. and Shutes, R.B.E., 1996, **Reedbeds and Constructed Wetlands for Wastewater Treatment**, WRC Publishers, Swindon, Wiltshire, UK.

73. Mbuligwe, S.E., 2004, "Comparative Effectiveness of Engineered Wetland Systems in the Treatment of Anaerobically Pre-Treated Domestic Wastewater, **Ecological Engineering**. Vol. 23, pp. 269-284.
74. Sato, S. and Comerford, N.B., 2008, "The Non-Recoverable Phosphorus Following Sorption onto a Brazilian Ultisol", **Biology and Fertility of Soils**, Vol. 44, pp. 649-652.
75. Arnon, D.I. and Stout, P.R., 1939, "The Essentiality of Certain Elements in Minute Quantity for Plants with Special Reference to Copper", **Plant Physiology**, Vol. 14, pp. 371-375.
76. Chen, Y., Bracy, R.P., Owings, A.D. and Merhaut, D., 2009, "Nitrogen and Phosphorus Removal by Ornamental and Wetland Plants in a Greenhouse Recirculation Research System", **Hortscience**, Vol. 44, pp. 1704-1711.
77. Zhao, F.L., Yang, W., Zeng, Z., Li, H., Yang, X., Z., He, Z., Gu, B., Rafiq, M.T. and Peng, H., 2012, "Nutrient Removal Efficiency and Biomass Production of Different Bioenergy Plants in Hypereutrophic Water", **Biomass and Bioenergy**, Vol. 42, pp. 212-218.
78. Karpouzas, D.G. and Walker, A., 2000, "Factors Influencing the Ability of *Pseudomonas putida* Strains ep I and II to Degrade the Organophosphate Ethoprophos", **Journal of Applied Microbiology**, Vol. 89, pp. 40-48.
79. Illmer, P., Barbato, A. and Schinner, F., 1995, "Solubilization of Hardly-Soluble  $AlPO_4$  with P- Solubilizing Microorganisms", **Soil Biology and Biochemistry**, Vol. 27, pp. 265-270.
80. Rodriguez, H. and Fraga, R., 1999, "Phosphate Solubilizing Bacteria and Their Role in Plant Growth Promotion", **Biotechnology Advances**, Vol. 17, pp. 319-339.
81. Sriprapat, W., Kullavanijaya, S., Techkarnjanaruk, S. and Thiravetyan, P., 2011, "Diethylene Glycol Removal by *Echinodorus cordifolius* (L.): the Role of Plant-Microbe Interactions", **Journal of Hazardous Materials**, Vol. 185, pp. 1066-1072.
82. Sims, J.T. and Pierzynski, G.M., 2005, **Chemistry of Phosphorus in Soil**, in **Tabatabai AM**, Sparks DL, eds., Chemical processes in soil, SSSA book series 8, Madison, pp. 151-192.
83. Illmer, P. and Schinner, F., 1992, "Solubilization of Inorganic Phosphates by Microorganisms Isolated from Forest Soil", **Soil Biology and Biochemistry**, Vol. 24, pp. 389-95.

84. Hall, J.A., Pierson, D., Ghosh, S. and Glick, B.R., 1996, "Root Elongation in Various Agronomic Crops by the Plant Growth Promoting Rhizobacterium *Pseudomonas putida* GR 12-2" **Israel Journal of Plant Science**, Vol. 44, pp. 37-42.
85. Glick, B.R., Changping, L., Sibdas, G. and Dumbroff, E.B., 1997, "Early Development of Canola Seedling in the Presence of the Plant Growth-Promoting Rhizobacterium *Pseudomonas putida* GR 12-2", **Soil Biology and Biochemistry**, Vol. 29, pp. 1233-9.