



[Chemical and Biological Engineering](#) > NAKANO Yoichi

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| Organization | Chemical and Biological Engineering |
| Position | Associate Professor |
| Academic Title | Doctor(Engineering) |
| Research Fields | Environmental Engineering, Water Treatment Engineering, Chemical Engineering |

<< Research Subjects >>

1. [Construction of Artificial Tidal Flat and Sea-grass Bed](#)
2. [Application of Micro Bubble and Gas Solution through Thin Film Liquid for Water Treatment](#)
3. [Water Treatment using Ozone](#)

<< Academic Activities >>

Papers and Notes

1. [Hazel B. Gonzales, Hideki Sakashita, Yoichi Nakano, Wataru Nishijima, Mitsumasa Okada, Food waste mineralization and accumulation in biological solubilization and composting processes, Chemosphere, Vol.79, pp.238-241 \(2010\)](#)
2. [Amelia B. Hizon-Fradejas, Yoichi Nakano, Satoshi Nakai, Wataru Nishijima, Mitsumasa Okada, Evaluation of blast furnace slag as basal media for eelgrass bed, Journal of Hazardous Materials, Volume 166, Issues 2-3, 30 July, Pages 1560-1566 \(2009\)](#)
3. [Satoshi NAKAI, Daizo IMAI, Ryo ISHII, Yoichi NAKANO, Wataru NISHIJIMA and Mitsumasa OKADA, Evaluation of Dredged Sediment as a Silt and Clay Source for Artificial Tidal Flats, Journal of Water and Environment Technology, Vol. 7, No. 3, pp.187-199 \(2009\)](#)
4. [Amelia B. Hizon-Fradejas, Yoichi Nakano, Satoshi Nakai, Wataru Nishijima, Mitsumasa Okada, Anchorage and resistance to uprooting forces of eelgrass \(Zostera marina L.\) shoots planted in slag substrates, Journal of Water and Environment Technology, Vol. 7, No. 2, Pages 91-101 \(2009\)](#)
5. [Ryo Ishii, Yoichi Nakano, Satoshi Nakai, Wataru Nishijima, Mitsumasa Okada, Benthic ecosystem development in an artificial tidal flat constructed from dredged spoil, Marine Pollution Bulletin, in print.\(2008\)](#)
6. [Yoichi Nakano, Tri Widjaja, Tomonori Miyata, Wataru Nishijima and Mitsumasa Okada, Effect of different adsorption/desorption properties and biodegradability of chemicals on the performance of powdered activated carbon \(PACT\) processes, No. 2 Korea-Japan Symposium '05 \(No. 3 & 4 combined\), pp. 71-78, \(2007\)](#)
7. [Yoichi Nakano, Atsushi Suehiro, Tetsuhiko Fujisato, Jun Ma, Kesayoshi Hadano and Masayuki Fukagawa, Development of High-speed Gas Dissolution Device, No. 2 Korea-Japan Symposium '05 \(No. 3 & 4 combined\), pp.103-108, \(2007\)](#)
8. [CONCIBIDO Neil C, OKUDA Tetsuji, NAKANO Yoichi, NISHIJIMA Wataru, OKADA Mitsumasa, Enhancement of the catalytic hydrodechlorination of tetrachloroethylene in methanol at mild conditions by water addition, Tetrahedron Lett, Vol.46, No.21, Page3613-3617, \(2005\)](#)
9. [Kiyokazu Okawa, Tsung-Yueh Tsai, Yoichi Nakano, Wataru Nishijima and Mitsumasa Okada, Effect of metal ions on decomposition of chlorinated organic substances by ozonation in acetic acid, Chemosphere Volume 58, Issue 4, January 2005, Pages 523-527, \(2005\)](#)
10. [Hazel B. Gonzales, Kazunori Takyu, Hideki Sakashita, Yoichi Nakano, Wataru Nishijima and Mitsumasa Okada, Biological solubilization and mineralization as novel approach for the pretreatment of food waste, Chemosphere Volume 58, Issue 1, January 2005, Pages 57-63, \(2005\)](#)
11. [Wataru NISHIJIMA, Hazel B. GONZALES, Hideki SAKASHITA, Yoichi NAKANO and Mitsumasa OKADA, Improvement of Biological Solubilization and Mineralization Process for Food Waste, Journal of Water and Environment Technology, Vol. 2, No. 2, pp.57-64.\(2004\)](#)
12. [M.Okada, Y. Nakano, K.Okawa, T. Y. Tsai, and W. Nishijima, Use of organic solution for the removal of hazardous chemicals: the more efficient and zero-emission decomposition processes by extraction, concentration and reaction in organic](#)

- solutions, *Water science and Technology: Water Supply*, Vol.4, No.1, pp119-125.(2004)
13. [Tsung-Yueh Tsai, Kiyokazu Okawa, Yoichi Nakano, Wataru Nishijima and Mitsumasa Okada, Decomposition of trichloroethylene and 2,4-dichlorophenol by ozonation in several organic solvents, *Chemosphere*, Volume 57, Issue 9, December, Pages 1151-1155.\(2004\)](#)
 14. [Tri Widjaja, Tomonori Miyata, Yoichi Nakano, Wataru Nishijima and Mitsumasa Okada, Adsorption capacity of powdered activated carbon for 3,5-dichlorophenol in activated sludge, *Chemosphere*, Volume 57, Issue 9, December, Pages 1219-1224.\(2004\)](#)
 15. [Kiyokazu Okawa, Yoichi Nakano, Wataru Nishijima and Mitsumasa Okada, Effects of humic substances on the decomposition of 2,4-dichlorophenol by ozone after extraction from water into acetic acid through activated carbon, *Chemosphere*, Volume 57, Issue 9, December, Pages 1231-1235.\(2004\)](#)
 16. [Wataru Nishijima, Yusuke Ochi, Tsung-Yueh Tsai, Yoichi Nakano, Mitsumasa Okada, Catalytic hydrodechlorination of Chlorinated ethylenes in organic solvents at room temperature and atmospheric pressure, *Applied Catalysis B: Environmental*, Vol.51, pp135-140, \(2004\)](#)
 17. [Yoichi Nakano, Tri Widjaja, Tomonori Miyata, Wataru Nishijima and Mitsumasa Okada, Effect of dissolved organic matter \(DOM\) and biofilm on the adsorption capacity of powdered activated carbon in activated sludge, *Journal of Water and Environment Technology*, Vol.1, No.2, pp247-256, \(2003\)](#)
 18. [Yoichi Nakano, Kiyokazu Okawa, Wataru Nishijima and Mitsumasa Okada, Ozone Decomposition of Hazardous Chemical Substance in Organic Solvents, *Water Research*, 37, pp 2595-2598.\(2003\)](#)
 19. [Yoichi Nakano, Li Qing Hua, Wataru Nishijima, Eiji Shoto and Mitsumasa Okada Bidodegradation of Trichloroethylene\(TCE\) Adsorbed on Granular Activated Carbon\(GAC\) *Water Research*, 34, pp4139-4142.\(2000\)](#)
 20. [Yoichi Nakano, Wataru Nishijima, Eiji Soto and Mitsumasa Okada, Relationship Between Growth Rate of Phenol Utilizing Bacteria and The Toxic Effect of Metabolic Intermediates of Trichloroethylene \(TCE\), *Water Research*, 33, pp 1085-1089, \(1999\)](#)

Presentations

1. [Emoto K., Yoshimi T., Nakano Y., Hizon A.B., Nakai S., Nishijima W., Okada M., Development of Artificial Eelgrass Soil Appropriated to Creation of Eelgrass Bed, The International Practical Research Conference Far East Spring, page125-128 \(2009\)](#)
2. [Otoshi A., Harad T., Nakano Y., Fujisato T., Ikeda Y., Treatment Property of Food Rejection Using Dissolution Apparatus of Ozone with Liquid Thin Film, The International Practical Research Conference Far East Spring, page128 132-128 \(2009\)](#)
3. [Yoichi Nakano, Tomonori Miyata, Tri Widjaja, Wataru Nishijima and Mitsumasa Okada \(2005\), Effect of different adsorption/desorption properties and biodegradability of chemicals on the performance of powdered activated carbon \(PACT\) processes, The 14th Korea-Japan Symposium on Water Environment 2005, pp 111-116, \(September 2005\)](#)
4. [Yoichi Nakano, Tsung-Yueh Tsai, Kiyokazu Okawa, Wataru Nishijima and Mitsumasa Okada \(2005\), Decomposition of Chlorinated Ethylenes by Ozonation and Radical Reaction in Organic Solvents, IOA 17th World Ozone congress 2005, pp IV.4.5-1-IV.4.5-7 \(September 2005\)](#)
5. [Yoichi Nakano, Tri Widjaja, Tomonori Miyata, Wataru Nishijima and Mitsumasa Okada\(2003\) Effect of dissolved organic matter \(DOM\) and biofilm on the adsorption capacity of powdered activated carbon in activated sludge, The 12th Korea-Japan Symposium on Water Environment 2003, pp63-69 \(September 2003\)](#)
6. [Yoichi Nakano, Kiyokazu Okawa, Wataru Nishijima, and Mitsumasa Okada \(2001\), Ozonation of hazardous chemicals in organic solvents, First IWA Asia-Pacific Regional Conference, Vol.1, pp611-616 \(September 2001\)](#)
7. [Nakano, Y., Nishijima, W., Shoto, E., Okada, M.: Effects of growth rate on the toxicity of metabolic intermediates of trichloroethylene \(TCE\) to phenol utilizing bacteria. 19th Biennial Conference of the International Association on Water Quality, Vol.7, 157-165 \(June 1998\)](#)
8. [Nakano, Y., Nishijima, W., Shoto, E., Okada, M.: Effects of trichloroethylene \(TCE\) toxicity on TCE degradation using phenol-utilizing bacteria. 6th IAWQ Asia-Pacific Regional Conference, 1181-1187 \(May 1997\)](#)