



[Chemical and Biological Engineering](#) > YAMASAKI Hirohito



YAMASAKI Hirohito

Organization	Chemical and Biological Engineering
Position	Professor
Academic Title	Doctor(Engineering)
Research Fields	Polymer Chemistry, Environmental Material

<< Research Subjects >>

1. [Separation and Recovery of Useful Material from Industrial Wastewater utilization Crosslinked Cyclodextrin Polymer as an Absorbent](#)
2. [Industrial Wastewater Treatment utilization immobilized Bacteria on polymer support being able to concentrate Organic Chemical](#)
3. [Biological Nitrogen Removal Process from Industrial Wastewater containing high concentration Ammonium](#)
4. [Synthesis of a novel Cresol Novolac Resin to develop Functional Regist Material](#)

<< Academic Activities >>

Papers and Notes

1. [Hirohito YAMASAKI, Yosuke MAKIHATA, Kimitoshi FUKUNAGA: "Preparation of crosslinked \$\beta\$ -cyclodextrin polymer beads and their application as a sorbent for removal of phenol from wastewater". Journal of Chemical Technology and Biotechnology, Vol.83, pp.991-997 \(2008\)](#)
2. [Hirohito YAMASAKI, Yosuke MAKIHATA, Kimitoshi FUKUNAGA: "Efficient phenol removal of wastewater from phenolic resin plants using crosslinked cyclodextrin particles". Journal of Chemical Technology and Biotechnology, Vol.81, pp.1271-1276 \(2006\)](#)
3. [Shingo HADANO, Seiji MAEHARA, Kenjiro ONIMURA, Hirohito YAMASAKI, Hiromori TSUTSUMI, Tsutomu OISHI: "Syntheses and biodegradability of benzylated waste pulps and graft copolymers from PBzs and L-lactic acid". Journal of Applied Polymer Science, 92\(4\), pp.2658-2664 \(2004\)](#)
4. [Tsutomu OISHI, Hirohito YAMASAKI, Kenjiro ONIMURA, Toshiyuki FUKUSHIMA, Seiji MORIHASHI: "Synthesis and property of hydrogel membranes consisting of fumaramate with phosphorylcholine group". Journal of Applied Polymer Science, 92\(4\), pp.2552-2557 \(2004\)](#)
5. [Shingo HADANO, Kenjiro ONIMURA, Hiromori TSUTSUMI, Hirohito YAMASAKI, Tsutomu OISHI: "Syntheses of chemical-modified cellulose obtained from waste pulp". Journal of Applied Polymer Science, Vol.90, Issue8, pp.2059-2065 \(2003\)](#)
6. [Tsutomu OISHI, Hiroaki TANAKA, Hirohito YAMASAKI, Kenjiro ONIMURA: "Synthesis of terpolymers having a phospholipid polar group and poly\(oxyethylene\) in the side chain and their protein adsorption-resistance properties". Journal of Applied Polymer Science, Vol.86, Issue5, pp.1092-1105 \(2002\)](#)
7. [Tsutomu OISHI, Miwa YOSHIKAWA, Hirohito YAMASAKI, Kenjiro ONIMURA, Hiromori TSUTSUMI: "Synthesis and polymerization of novel methacrylate having glycerophosphorylcholine". Polymer Bulletin, 47, pp.415-420 \(2002\)](#)
8. [Tsutomu OISHI, Yasushi YOSHIMURA, Hirohito YAMASAKI, Kenjiro ONIMURA: "Synthesis and polymerization of methacrylate bearing a phosphorylcholine, analogous moiety". Polymer Bulletin, 47, 121-126 \(2001\)](#)
9. [Tsutomu OISHI, Hirohito YAMASAKI, Hiromi KADA, Kenjiro ONIMURA, Hiromori TSUTSUMI, Akio HAYASHI: "Synthesis and polymerization of macromonomer having a phospholipid polar group". Polymer Journal, Vol.32, No.4, pp.378-380 \(2000\)](#)

Presentations

1. [Hirohito YAMASAKI, Yuma TAKEUCHI, Junya SUGIMUR, Takahisa FURUMOTO, Sadaaki KUROIWA, Toshimitsu KAWAME: "Synthesis and Properties of Cresol Adipaldehyde Novolac Resin as a Photo-resist Material", Proceedings of 3rd EuCheMS Chemistry Congress Nürnberg 2010, Ic.067, Programme p.26, Nürnberg\(Germany\), Aug.29-Sep.2 \(2010\)](#)

2. [Hirohito YAMASAKI, Masami TAKEUCHI, Kimitoshi FUKUNAGA: "Microbial Ecology of Immobilized Aerobic Nitrifying Bacteria in High-Concentration Ammonium Wastewater", Proceedings of 3rd EuCheMS Chemistry Congress Nürnberg 2010, Vc.018, Programme p.78, Nürnberg\(Germany\), Aug.29-Sep.2 \(2010\)](#)
3. [Hikaru TOKUNAGA, Taiji ITO, Hirohito YAMASAKI: "Preparation of spherical PVA hydrogels bearing \$\beta\$ -cyclodextrin and their application as immobilizing support for microbes", Proceedings of 2010 International Chemical Congress of Pacific Basin Societies \(PACIFICHEM 2010\), MACR 638, Hawaii\(USA\), Dec.15-20 \(2010\)](#)
4. [Hirohito YAMASAKI, Narumi UCHIDA, Yasuyuki NAGASAWA, Taiji ITO, Kimitoshi FUKUNAGA: "Preparation of spherical photo-crosslinkable hydrogels bearing \$\beta\$ -cyclodextrin and their application as immobilizing support for microbes", Proceedings of 2010 International Chemical Congress of Pacific Basin Societies \(PACIFICHEM 2010\), MACR 639, Hawaii\(USA\), Dec.15-20 \(2010\)](#)
5. [Narumi UCHIDA, Yasuyuki NAGASAWA, Hirohito YAMASAKI, Kimitoshi FUKUNAGA: "Preparations of Photo-crosslinkable Hydrogel Beads bearing \$\beta\$ -Cyclodextrin and Application as an Immobilizing Support for Microbes", Proceedings of 11th Pacific Polymer Conference 2009, P377, Cairns\(Australia\), Dec.6-10 \(2009\)](#)
6. [Yuma TAKEUCHI, Akimasa KURAMOTO, Hirohito YAMASAKI, Takahisa FURUMOTO, Sadaaki KUROIWA, Koji ISHIGUCHI: "Synthesis and Properties of Cresol Glutaraldehyde Novolac Resin as a Photo-resist Material", Proceedings of 11th Pacific Polymer Conference 2009, P378, Cairns\(Australia\), Dec.6-10 \(2009\)](#)
7. [Hirohito YAMASAKI, Taiji ITO, Masami TAKEUCHI, Kimitoshi FUKUNAGA: "Microbial ecology of immobilized nitrifying bacteria in high concentration ammonium wastewater by FISH", Proceedings of 3rd European Conference on Chemistry for Life Sciences, P054, p.138, Frankfurt\(Germany\), Sep.2-5 \(2009\)](#)
8. [Hirohito YAMASAKI, Aya ODAMURA, Kimitoshi FUKUNAGA: "Preparation of photo-crosslinked \$\beta\$ -cyclodextrin polymer beads and their application as a sorbent for phenols removal of wastewater", Proceedings of 18th International Congress of Chemical & Process Engineering, Summaries 4, p.1572, Praha\(Czech Republic\), Aug. 24-28 \(2008\)](#)
9. [Hirohito YAMASAKI, Yasuyuki NAGASAWA, Kimitoshi FUKUNAGA: "Preparation of novel hydrogel beads bearing \$\beta\$ -cyclodextrin and application as an immobilizing support for phenol degradation bacteria", Proceedings of 18th International Congress of Chemical & Process Engineering, Summaries 4, p.1571, Praha\(Czech Republic\), Aug. 24-28 \(2008\)](#)
10. [Hirohito YAMASAKI, Sadaaki MURAKAMI, Taiji ITO, Kimitoshi FUKUNAGA: "Treatment of super high concentration ammonium wastewater with immobilized aerobic nitrifying bacteria and stripping effects", Proceedings of 18th International Congress of Chemical & Process Engineering, Summaries 4, p.1577, Praha\(Czech Republic\), Aug. 24-28 \(2008\)](#)
11. [Hirohito YAMASAKI, Sadaaki MURAKAMI, Emiko SHINAGAWA, Kimitoshi FUKUNAGA: "Nitrification of high concentration ammonium wastewater by immobilized bacteria", Proceedings of 2nd European Conference on Chemistry for Life Sciences, No.214, p.328, Wroclaw\(Poland\), Sep. 4-8 \(2007\)](#)
12. [Hirohito YAMASAKI, Kimitoshi FUKUNAGA: "Recovery of phenol from phenols wastewater by spherical porous crosslinked beta-cyclodextrin polymer", Proceedings of 1st European Chemistry Congress, HS-IL-27, p.197, Budapest\(Hungary\), Aug. 27-31 \(2006\)](#)
13. [Hirohito YAMASAKI, Yousuke MAKIHATA, Kimitoshi FUKUNAGA: "Novel spherical porous crosslinked cyclodextrin polymers and their application as a sorbent for phenol removal of wastewater", 2005 International Chemical Congress of Pacific Basin Societies, Environmental & Green Chemistry 354, Hawaii\(USA\), Dec. 15-20 \(2005\)](#)
14. [Haruna TSUJIMURA, Hirohito YAMASAKI, Kimitoshi FUKUNAGA, Emiko SHINAGAWA, Sadaaki MURAKAMI: "Nitrification of high concentration ammonium wastewater with a bubble column installed with immobilized nitrifying bacteria", 2005 International Chemical Congress of Pacific Basin Societies, Environmental & Green Chemistry 358, Hawaii\(USA\), Dec. 15-20 \(2005\)](#)
15. [Hirohito YAMASAKI, Kenjiro ONIMURA, Tsutomu OISHI: "Radical Polymerization of maleimides having phenylglycine alkyl ester derivatives and chiroptical property of the polymers", Proceedings of The 17th International Symposium on Chiral Discrimination, p.265, Parma\(Italy\), Sept. 11-14 \(2005\)](#)
16. [Hirohito YAMASAKI, Yousuke MAKIHATA, Kimitoshi FUKUNAGA: "Efficient phenols removal of wastewater from phenolic resin plants using crosslinked cyclodextrin particles", Proceedings of 16th International Congress of Chemical & Process Engineering, Summaries 5, p.1868, Praha\(Czech Republic\), Aug. 22-26 \(2004\)](#)
17. [Hirohito YAMASAKI, Yousuke MAKIHATA, Kimitoshi FUKUNAGA: "Preparation of spherical porous crosslinked cyclodextrin polymers and their application as a sorbent for phenols removal of wastewater", Proceedings of 16th International Congress of Chemical & Process Engineering, Summaries 5, p.1869, Praha\(Czech Republic\), Aug. 22-26 \(2004\)](#)
18. [Hirohito YAMASAKI, Kenjiro ONIMURA, Hiromori TSUTSUMI, Tsutomu OISHI: "Synthesis and properties of macromonomers having phospholipid polar groups", 2000 International Chemical Congress of Pacific Basin Societies, Book of Abstracts Part1 MACR.7-471, Hawaii\(USA\), Dec. 14-19 \(2000\)](#)