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Education

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 PhD. (Biotechnology) Imperial College of Science Technology & Medecine, University of London, England,
 UK

Position Held

1992 – 1995 Lecturer, School of Bioresources and Technology, KMUTT
 1995 Assistant Professor, School of Bioresources and Technology, KMUTT
 1993 – 1997 Secretary of Division of Biotechnology, School of Bioresources and Technology, KMUTT
 1997 Secretary of School of Bioresources and Technology, KMUTT
 2001 - Now Associate Professor, School of Bioresources and Technology, KMUTT
 2003 - 2007 Head of Division of Biotechnology, School of Bioresources and Technology, KMUTT

Membership

Biotechnology Society in Thailand
 Science Society in Thailand

Editorial Board of Environmental Engineering Journal of Thailand

Field of Specialisation

- Waste utilisation – Production of activated carbon from agricultural wastes
Preparation of agricultural wastes as adsorbents for wastewater treatment/ color adsorption and heavy metal recovery
- Wastewater treatment – Treatment of wastewater containing heavy metals/ organic substances by using agricultural wastes and industrial wastes
- Phytoremediation- Phytoremediation of wastewater/soil containing heavy metals/organic substances by Narrow-Leaved Cattail, Nut grass, Carpet grass, Burhead and *Cyperus textilis*
Wetland of volatile organic compounds by *Cyperus textiles*
- Biohydrometallurgy – Bioleaching of nickel, copper, zinc and gold from low-grade ores by *Thiobacillus ferrooxidans* and *Thiobacillus thiooxidans*

Present Research Projects

1. Decolorisation of color from sugar syrup by nanochitin and bagasse fly ash activated carbon.
2. Adsorption of ethylene glycol and derivatives by charcoal and activated carbon produced from agricultural wastes.
3. Recycle of nickel, chromium from electroplating rinse water by rice husk and coconut coir pith.
4. Phytoremediation of wastewater containing ethylene glycol by Burhead and *Cyperus textilis*.
5. Wetland of textile wastewater by Narrow-leaved Cattail.
6. Phytoremediation of cadmium-contaminated soil by Nut grass and Carpet grass.
7. Wetland of toluene by *Cyperus textilis*.

Reviewers in international journals

1. Canadian Journal of Chemical Engineering 1 paper
2. Journal of Colloid and Interface Science 9 papers
3. Journal of Environmental Management 3 papers
4. Colloids and Surfaces A: Physicochemical and Engineering Aspects 3 papers
5. Journal of Hazardous Materials 10 papers
6. Chemical Engineering Journal 1 paper
7. Bioresource Technology 3 paper
8. Biomass & Bioenergy 1 paper
9. World Journal of Agricultural Sciences 1 paper
10. Chemosphere 1 paper
11. Materials Chemistry and Physics 1 paper

12. Environmental Chemistry Letters 3 paper
13. C-polymer 1 paper
14. Adsorption 1 paper
15. Desalination 1 paper
16. International Journal of Environmental and Waste Management 1 paper

List of Publication

Patent/Petty Patent

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2. Thiravetyan, P., Dolphen, R., Sakkayawong, N. and Nakbanpote, W. (2007) Process of modified chitin by sodium hyperchlorite (Petty Patent No. 4003).

International Journal

1. Suksabye, P., Nakajima, A., Thiravetyan, P. , Baba, Y. and Nakbanpote, W. Mechanism of Cr(V) adsorption by coir pith studied by ESR and adsorption kinetic, *J. of Hazardous Materials, impress.* (impact factor 2006 = 1.855)
2. Suksabye, P., Thiravetyan, P. , Nakbanpote, W. Column study of chromium (VI) adsorption from electroplating industry by coconut coir pith, *J. of Hazardous Materials, impress.* (impact factor 2006 = 1.855)
3. Leechart, P., Nakbanpote, W. and Thiravetyan, P. Application of 'waste' wood shaving bottom ash for adsorption of azo reactive dye, *J. of Environmental Management, impress.* (impact factor 2006 = 1.477)
4. Aworn, A., Thiravetyan, P. and Nakbanpote, W. (2008) Preparation and characteristics of agricultural waste activated carbon by physical activation having micro- and mesopores, *J. of Analytical and Applied Pyrolysis*, 82, 279-285. (impact factor 2006 = 1.412)
5. Ewecharoen, A., Thiravetyan, P. and Nakbanpote, W. (2008) Comparison of nickel adsorption from electroplating rinse water by coir pith and modified coir pith, *Chemical Engineering Journal*, 137, 181-188. (impact factor 2006 = 1.594)
6. Nilratnisakorn, S., Thiravetyan, P. and Nakbanpote, W. (2007) Synthetic reactive dye wastewater treatment by Narrow-leaved cattails (*Typha angustifolia* Linn.): effects of dye, salinity and metals, *Science of the Total Environment*, 384, 67-76. (impact factor 2006 = 2.359)

7. Nakbanpote, W., Goodman, B. A. and Thiravetyan, P. (2007) Copper adsorption on rice husk derived materials studied by EPR and FTIR, *Colloid and Surface A: Physicochemical and Engineering Aspects*, Vol. 304, 7-13. (impact factor 2006 =1.611)
8. Dolphen, R., Sakkayawong, N., Thiravetyan, P. and Nakbanpote, W. (2007) Adsorption of synthetic reactive dye wastewater onto modified chitin, *J. of Hazardous Materials*, Vol. 145, 250-255. (impact factor 2006 =1.855)
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11. Sakkayawong, N., Thiravetyan, P. and Nakbanpote, W. (2005) Adsorption mechanism of synthetic reactive dye wastewater by chitosan, *J. of Colloid and Interface Science*, Vol. 286, 36-42. (impact factor 2006 = 2.233)
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National Journal

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2. Nakbanpote, W., Mongkhonsin, B. and Thiravetyan, P. (2008) Chromium accumulation in *Gynura pseudochina* (L.) DC, The 2nd Annual Users' Meeting, 26 June 2008, Bangkok, Thailand.
3. Netpradit, S. and Thiravetyan, P. (2008) Efficiency of metal hydroxide precipitate in the adsorption of reactive dye, 2nd SEATUC, 26-27 February 2008, Bandung, Indonesia.
4. Suksabye, P., Thiravetyan, P. and Nakbanpote, W. (2008) Recovery of chromium from electroplating wastewater by coir pith and its mechanism, The CBNU-BK21 and KMUTT International Symposium on the sustainable resource recycling technology development in environmental and urban engineering, 11 February 2008, Bangkok, Thailand.
5. Nilratnisakorn, S. , Thiravetyan, P. and Nakbanpote, W. (2008) Textile wastewater treatment by Narrow-leaved Cattails, Conference on "Healthy Wetland, Healthy People", 5-6 February 2008, Bangkok, Thailand.
6. Ewecharoen, A., Thiravetyan, P., Bauer, M and Bertagnolli, H. (2007) Nickel adsorption from electroplating rinse water by coir pith and modified coir pith, 6th ANKA Users Meeting, 1-2 October 2007, Karlsruhe, Germany.
7. Nilratnisakorn, S. , Thiravetyan, P., Pickering, I. J., George, G. N. and Nakbanpote, W. (2007) Application of XAS, XRD and FTIR for mechanisms studied on textile wastewater treatment of Narrow-leaved Cattail (*Typha angustifolia* Linn.), 10th Annual User's Meeting & Associated Events, 15-17 June, 2007, University of Saskatchewan, Canada.
8. Aworn, A., Thiravetyan, P., Nakbanpote, W., Dhurakit, P. and Lecchart, P. (2007) Activated carbon preparation from agricultural wastes by physical activation, RGJ-Ph.D. Congress VIII, 20-22 April 2007, Pattaya, Thailand.

9. Suksabye, P. , Nakajima, A., Thiravetyan, P. and Baba, Y. (2006) ESR study on the chromium adsorption by coir pith, The 45th Annual Meeting of the Society of Electron Spin Science and Technology (SEST2006)", 14-16 November 2006, Kyoto Institute of Technology, Kyoto.
10. Thongpradistha, S. , Thiravetyan, P. and Nakbanpote, W. (2006) Decolorization of sugar syrup by using bagasse fly ash, The 18th Annual Meeting of the Thai Society for Biotechnology, Biotechnology: Benefits & Bioethics, 2-3 November, The Montien Riverside Hotel, Bangkok, Thailand.
11. Rungsirivitoona, K., Thiravetyan, P. and Nakbanpote, W. (2006) Activated carbon from sawdust char by physical and chemical activation, 31nd Congress on Science and Technology of Thailand, 10-12 October, Queen Sirikit National Convention Center and Convention Center, Bangkok, Thailand.
12. Chaiyapongpipat, R., Thiravetyan, P. and Nakbanpote, W. (2006) Treatment of COD from offset printing wastewater by agricultural wastes, 31nd Congress on Science and Technology of Thailand, 10-12 October, Queen Sirikit National Convention Center and Convention Center, Bangkok, Thailand.
13. Thiravetyan, P., Dolphen, R., Sakkayawong, N. , and Nakbanpote, W. (2006) Treatment of synthetic reactive dye wastewater by chitosan, chitin and modified chitin, The Fourth National Chitin-Chitosan Conference, 5-6 October 2006, Chulalongkorn University, Bangkok, Thailand.
14. Nakbanpote, W. and Thiravetyan, P. (2006) Rice husk adsorbents derived from combustion for gold-thiourea complex, 4th International Conference on Combustion, Incineration/Pyrolysis and Emission Control, 26-29 September 2006, Kyoto, Japan.
17. Aworn, A., Thiravetyan, P. and Nakbanpote, W. (2006) Comparison of corncob activated carbon by one-stage and two-stage pyrolyses, 4th International Conference on Combustion, Incineration/Pyrolysis and Emission Control, 26-29 September 2006, Kyoto, Japan.
18. Ewecharoen, A., Thiravetyan, P. and Smith, M. F. (2006) An XAS study on mechanism of nickel adsorption by coconut coir pith for wastewater treatment, The week of Science Show 2550, 8-19 August 2550, Bangkok, Thailand.
19. Nilratnisakorn, S., Thiravetyan, P. and Nakbanpote, W. (2006) Mechanism of textile dye removal by Narrow-leaved Cattail by XAS, The week of Science Show 2550, 8-19 August 2550, Bangkok, Thailand.
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ประวัติผู้ร่วมวิจัย

1. ชื่อ-นามสกุล (นาย, นาง, นางสาว)สิริกานูจน์ นุ่นปุย
(Mr, Mrs, Miss)Sirikan Noonpui
2. เลขหมายบัตรประจำตัวประชาชน 3 7706 00639 29 9
3. ตำแหน่งปัจจุบันนักวิจัย วันที่เริ่มงานใน มจร.26 กุมภาพันธ์ 2550
4. หน่วยงานที่สังกัด ห้องปฏิบัติการ Remediation
สถาบันพัฒนา และฝึกอบรมโรงงานต้นแบบ
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี
ที่อยู่ 91 ถนนประชาอุทิศ แขวงบางมด เขตทุ่งครุ กรุงเทพฯ 10140
โทรศัพท์ ...02-470-7536...
โทรสาร ...02-452-3455.....
e-mail sirikan@pdti.kmutt.ac.th

5. ข้อมูลส่วนบุคคล (CV)

ประวัติการศึกษา

วุฒิการศึกษา	สาขา	ปีที่จบ	สถาบัน	ประเทศ
วท.บ.	จุลชีววิทยา	2543	มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี	ไทย
วท.ม.	เทคโนโลยีชีวภาพ	2548	มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี	ไทย

6. สาขาวิชาการที่มีความชำนาญพิเศษ (แตกต่างจากวุฒิการศึกษา)

6.1 โปรรະนุสาขาวิชา

การบำบัดน้ำเสียหมักพืชมัฐานน้ำโดยใช้เฝ้าลอยขานอ้อยเป็นตัวยูดซับ

6.2 ชื่อกลุ่มวิจัย (cluster) ที่สังกัด ... ห้องปฏิบัติการ Remediation

7. ประสบการณ์ทำวิจัย (งานวิจัยที่ทำเสร็จ งานวิจัยที่กำลังทำ ผลงานเผยแพร่ ผลงานจดสิทธิบัตร)

7.1 งานวิจัยที่ทำเสร็จ

การบำบัดน้ำเสียจากอุตสาหกรรมผลิตหมักพืชมัฐานน้ำโดยใช้เฝ้าลอยขานอ้อยเป็นตัวยูดซับ : กลไกการดูดซับ

7.2 งานวิจัยที่กำลังทำ

- ศึกษาโปรตีนพืชที่เกี่ยวข้องในการบำบัดสัชนิครีแอกทีฟโดยต้นรูปฤยิ (*Typha angustifolia* L.)
- ศึกษาประสิทธิภาพการกำจัดสัสังเคราะห์ที่เตรียมจากสัย้อมสันิครีแอกทีฟ (C.I. Red 2, C.I. Red 120, C.I. Red 141 โดยต้นอเมซอน (*Echinodorus cordifolius* L.)

ประวัติผู้ร่วมวิจัย

1. ชื่อ-สกุล (ภาษาไทย) นางประไพ ชูระกิจ
(ภาษาอังกฤษ) Mrs. Prapai Thurakit
2. เลขหมายบัตรประจำตัวประชาชน 3 1022 00997 98 5
3. ตำแหน่งปัจจุบัน ผู้ช่วยนักวิจัย
4. หน่วยงานที่สังกัด สายวิชาเทคโนโลยีชีวภาพ
คณะทรัพยากรชีวภาพและเทคโนโลยี
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี (บางขุนเทียน)
83 หมู่ 8 แขวงท่าข้าม เขตบางขุนเทียน กรุงเทพมหานคร 10150
โทร 02-470-7536 โทรสาร 02-452-3455
5. ประวัติการศึกษา

คุณวุฒิ-สาขาวิชา	ปี พ.ศ.ที่จบ	สถานศึกษา
วท.บ.	2533	วิทยาลัยครูจันทระเกษม
6. สาขาที่มีความชำนาญพิเศษ (แตกต่างจากวุฒิการศึกษา) ระบุสาขาวิชา
 - การใช้ประโยชน์จากของเสียจากอุตสาหกรรมและวัสดุเหลือทิ้งทางการเกษตรมาใช้ในการบำบัดน้ำเสียและการนำโลหะกลับมาใช้ใหม่
7. ประสบการณ์ที่เกี่ยวข้องกับการบริหารงานวิจัยทั้งภายในและภายนอกประเทศ โดยระบุสถานภาพในการทำการวิจัยว่าเป็นผู้อำนวยการแผนงานวิจัย หัวหน้าโครงการวิจัย หรือผู้ร่วมวิจัยในแต่ละข้อเสนอการวิจัย เป็นต้น

ผู้ร่วมโครงการวิจัย: ชื่อโครงการวิจัย การกำจัดสีรีแอดทีฟในน้ำทิ้งจากโรงงานฟอกย้อมสิ่งทอ โดยใช้วัสดุเหลือทิ้งทางการเกษตรและของเหลือทิ้งจากโรงงานอุตสาหกรรมต่างๆ (2544-2546)
งานวิจัยที่ทำเสร็จแล้ว ชื่อผลงานวิจัย ปีที่พิมพ์ การเผยแพร่ และสถานภาพในการทำวิจัย

 - Netpradit, S., Thiravetyan, S., Thiravetyan, P., Nakbanpote, W. and Durakit, P. (2004) Wastewater treatment techniques for printing industry, *Thai Screen Printing & Graphic Imaging Association*, Vol. 12, No. 37, 61-65.
 - Nakbanpote, W., Thiravetyan, P. and Thurakit, P. (2003) "Adsorption and flocculation by zinc-silicate in reactive dye removal", First International Symposium on Southeast

Asian Water Environment, 23-25 October, Conference Center of AIT, Bangkok, Thailand.

- Leecharad, P., Thiraveryan, P., Nakbanpote, W. and Thurakit, P. (2002) "Removal of reactive dyes by rice husk", 28th Congress on Science and Technology of Thailand, 24-26 October 2002, at Queen Sirikit National Convention Center, Bangkok, Thailand.

8. งานบริการวิชาการให้แก่เอกชน

เป็นผู้ร่วมวิจัยในการให้บริการวิชาการแก่บริษัทต่าง ๆ ในการบำบัดน้ำเสีย ดังนี้ คือ

- บริษัท อเบ โนพรีนคิง จำกัด
- บริษัท อินเตอร์อิงค์ จำกัด
- บริษัท นานมี อุตสาหกรรม จำกัด
- บริษัท คูมายเบส จำกัด
- บริษัท ไชเบอร์พรีนคิง
- บริษัท ทีซีที อินคัสทรี จำกัด
- บริษัท โรงพิมพ์ตะวันออก จำกัด มหาชน
- บริษัท หนังสือพิมพ์ มติชน จำกัด มหาชน
- บริษัท ศรีชัยธง จำกัด
- บริษัท แพลนพรีนคิง จำกัด
- บริษัท ไฮเดนกรุ๊ป จำกัด



