Faculty of Science
Department of Chemistry

Curriculum Title Master of Science Program in Chemistry and
Doctor of Philosophy Program in Chemistry

Curriculum Description

The curriculums of the Master of Science Program in Chemistry and Doctor of Philosophy Program in Chemistry are designed to offer students outstanding benefits of an interdisciplinary (multidisciplinary) education. The curriculum of the program is grounded in core courses devoted to the critical study of the main concepts and methodologies related to chemistry. Students are able to have options of choosing elective courses that cover various aspects of chemistry.

Objectives of the Program

<table>
<thead>
<tr>
<th>Master degree</th>
<th>Ph.D. degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate the advanced knowledge in specific area of chemistry, create and develop critical thinking.</td>
<td>1. Demonstrate the advanced knowledge in specific area of chemistry, create and develop critical thinking.</td>
</tr>
<tr>
<td>2. Combine the research methodologies, the advanced chemical knowledge and professional chemical skills to solve problems.</td>
<td>2. Combine the research methodologies, the advanced chemical knowledge and professional chemical skills to solve problems and make right decision.</td>
</tr>
<tr>
<td>3. Demonstrate an awareness of their responsibilities (moral and ethical behavior, ability to work with diverse groups of peoples).</td>
<td>3. Demonstrate an awareness of their responsibilities (moral and ethical behavior, ability to work with diverse groups of peoples).</td>
</tr>
<tr>
<td>4. Use modern technologies to engage in long-live learning.</td>
<td>4. Use modern technologies to engage in long-live learning.</td>
</tr>
<tr>
<td>5. Demonstrate academic oral and written communication skills in English.</td>
<td>5. Demonstrate academic oral and written communication skills in English.</td>
</tr>
<tr>
<td>6. Conceptualize, design and implement research for generation of new knowledge or applications or innovations in chemistry.</td>
<td></td>
</tr>
</tbody>
</table>

Master of Science Program in Chemistry: A program of study emphasizes on academic and research development in chemistry at a level higher than a bachelor's degree or a graduate diploma. The program consists of at least 36 credits:
Plan A 2: Students will have to enroll through the compulsory and elective courses in addition to conduct their research works.

<table>
<thead>
<tr>
<th>Curriculum Component</th>
<th>Plan A 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compulsory Courses</td>
<td>4</td>
</tr>
<tr>
<td>Electives Courses</td>
<td>14</td>
</tr>
<tr>
<td>Thesis</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>36</td>
</tr>
</tbody>
</table>

**Doctor of Philosophy:** A program of study emphasizes on academic and research development in chemistry at a level higher than a master's degree or a higher graduate diploma. The program consists of at least 48 credits of study for applicant with a master's degree or equivalent and at least 72 credits of study for applicant with a bachelor's degree or excellent academic record or equivalent. There are 2 study plans to choose from:

**Plan 1:** Thesis only plan, where research of exceptional quality leading to novel studies are emphasized. Student may be assigned additional audit course work or activities.

**Plan 1.1 - Applicant with a master's degree or equivalent must take at least 48 credits for thesis.**

**Plan 2:** Combined course work and thesis plan, where research of high quality leading to academic and professional development are emphasized.

**Plan 2.1 - Applicant with a master's degree or equivalent must take at least 36 credits of thesis and at least 12 credits of course work.**

**Plan 2.2 - Applicant with a bachelor's degree or equivalent must take at least 48 credits of thesis and at least 24 credits of course work.**

<table>
<thead>
<tr>
<th>Curriculum Component</th>
<th>Plan 1.1</th>
<th>Plan 2.1</th>
<th>Plan 2.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compulsory Courses</td>
<td>-</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>Electives Courses</td>
<td>-</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Thesis</td>
<td>48</td>
<td>36</td>
<td>48</td>
</tr>
<tr>
<td>Total</td>
<td>48</td>
<td>48</td>
<td>72</td>
</tr>
</tbody>
</table>

**Type of Program**

- Regular Program (Monday-Friday)
- ✔️ Regular Program (Monday-Friday) and International Program
- ❌ Special Program (Saturday-Sunday)
Dissertation Themes

**Analytical Chemistry:**
- Analysis of trace organics such as pesticide residues, phenolic compounds in natural waters, foods and drugs employing gas chromatography and high performance liquid chromatography methods.
- Analysis of trace metals, trace elements, and related aspects: stripping potentiometric and atomic absorption spectrophotometric methods for heavy metals and trace elements in food and environmental samples; electrochemical methods for speciation of trace metals and organic matters in water samples; investigation of electrochemical behaviors and corrosion; analysis of green house gas emissions in terrestrial ecosystems.
- Technical innovations: development of flow injection systems, biosensors, nanomaterials and other analytical techniques for environmental monitoring, sample preparations and treatments.

**Inorganic Chemistry:**
- Syntheses of organic molecules and inorganic complexes for biological activities in vitro of bacteria, virus, fungus, tumor and cancer cells or enzymic inhibition.
- Studies of some metal oxide photocatalysts, TiO₂ and ZnO included, with possible applications in wastewater treatment, solar cell and electronics applications.
- Studies of luminescent properties and applications of emissive organic molecules and inorganic complexes.

**Material Chemistry and Energy Chemistry**
- Studies of some metal oxide photocatalysts, TiO₂ and ZnO included, with possible applications in wastewater treatment, solar cell and electronics applications.
- Porous carbon materials from natural resources and mesoporous carbon materials by soft-templating.
- Particulate matters and associated polycyclic aromatic hydrocarbons from biomass combustion: characterization and control.

**Organic Chemistry:**
- Bioactive secondary metabolites from endophytic, marine-derived and soil fungi.
• Structural determination of naturally occurring compounds from Southern Thai plants.
• Total synthesis of bioactive natural products.
• Structural modification of bioactive natural products.
• Synthetic methodologies for the synthesis of heterocyclic compounds.
• Synthesis of colored and photoactive compounds and polymers for sensor and smart thin film applications.

Physical Chemistry:
• Porous carbon materials from natural resources and mesoporous carbon materials by soft-templating.
• Surface chemistry concerned with adsorption of certain metal ions by activated carbon (from local materials) which gives rise to different adsorptive capacities.
• Structural chemistry covering single-crystal X-ray diffraction of solids.
• Thermochemical conversion of biomass into fuels and energy: characterization, operating process, kinetic study and applications.
• Particulate matters and associated polycyclic aromatic hydrocarbons from biomass combustion: characterization and control.

Prospective students

Master’s Degree: Applicants must have a bachelor’s degree or equivalent from an accredited college or university

Doctor of Philosophy: Applicant must have a master’s degree or equivalent from an accredited college or university.

Prospective advisors:
1. Prof. Dr. VATCHARIN RUKACHAISIRIKUL
2. Assoc. Prof. Dr. KANDA PANTHONG
3. Assoc. Prof. Dr. PANOTE THAVARUNGKUL
4. Assoc. Prof. Dr. PROESPICHAYA KANATHARANA
5. Assoc. Prof. Dr. PONGSATON AMORNPIKOKSUH
6. Assoc. Prof. Dr. WILAWAN MAHABUSARAKAM
7. Assoc. Prof. Dr. SUCHADA CHANTRAPROMMA
8. Asst. Prof. Dr. KWANRUTHAI TADPETCH
9. Asst. Prof. Dr. CHONGDEE BURANACHAI
10. Asst. Prof. Dr. JUTHANAT KAEOBAMRUNG
11. Asst. Prof. Dr. NARARAK LEESAKUL
12. Asst. Prof. Dr. PIPAT CHOOTO
13. Asst. Prof. Dr. SUDA CHAKTHONG
14. Asst. Prof. Dr. SURAJIT TEKASAKUL
15. Asst. Prof. Dr. YAOWAPA SUKPONDMA
16. Asst. Prof. Dr. APON NUMNUAM
17. Asst. Prof. Dr. SAOWANIT SAITHONG
18. Asst. Prof. Dr. OPAS BUNKOED
19. Dr. CHITTREEYA TANSAKUL
20. Dr. THITIMA RUJIRALAI
21. Dr. NEERANUCH PHUSUNTI
22. Dr. PUCHONG WARARATANANURUK
23. Dr. SUPUNNEE DUANGTHONG
24. Asst. Prof. Dr. WARAKORN LIMBUT
25. Dr. KLATNATEE VEPULANONT
26. Dr. LAEMTHONG CHUENCHOM
27. Dr. URAIWAN SIRIMAHACHAI

Contact Information: Asst. Prof. Dr. SUDA CHAKTHONG
Department of Chemistry, Faculty of Science
Prince of Songkla University, Hat Yai, Songkhla,
90112, Thailand.
E-mail: suda.ch@psu.ac.th
VATCHARIN RUKACHAISIRIKUL

POSITION:  Professor (Organic Chemistry)

CONTACT ADDRESS
Department of Chemistry, Faculty of Science,
Prince of Songkla University, Hat Yai, Songkhla, 90112, Thailand
Phone:  074-288-435
Fax:  074-558-841
E-mail: vatcharin.r@psu.ac.th

RESEARCH INTEREST
• Bioactive Natural Products from Fungi
• Drug Discovery

PUBLICATIONS (2012-present)


54. Saetang, P.; Rukachaisirikul, V.*; Phongpaichit, S.; Sakayaroj, J.; Shi, X.; Chen, J.; Shen, X. β-Resorcylic macrolide and octahydonaphthalene derivatives from a


Curriculum Vitae

NAME (English): Kanda Panthong

ACADEMIC POSITION: Associate Professor

CONTACT ADDRESS
Department of Chemistry,
Faculty of Science, Prince of Songkla University,
Hat Yai, Songkhla, 90112, Thailand
Tel.: 66-74-288-433
Fax.: 66-74-558-841
E-mail address: kanda.p@psu.ac.th

EDUCATION
• B.Sc. (Chemistry), 1987, Prince of Songkla University, Thailand
• Ph.D. (Organic Chemistry), 1999, Mahidol University, Thailand

RESEARCH INTEREST
-Bioactive Natural Products

PUBLICATIONS (2004-2016)


Assoc. Prof. Dr. Panote Thavarungkul

Biophysics

Department of Physics, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla 90112

E-mail: panote.t@psu.ac.th

Research interests: Biosensors for medical, environmental and industrial applications

Recent publications (2016-2017)


Subba JR, Thammakhet C, Thavarungkul P, Kanatharana P. 2016. Distributions of SO2 and NO2 in the lower atmosphere of an industrial area in Bhutan. Journal of environmental...


Aksornneam L, Kanatharana P, Thavarungkul P, Thammakhet C. 2016. 5-Aminofluorescein doped polyvinyl alcohol film for the detection of formaldehyde in vegetables and seafood. Analytical Methods, 8, 1249


Assoc. Prof. Dr. Proespichaya Kanatharana

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University Hat Yai, Songkhla, 90112

E-mail: proespichaya.K@psu.ac.th

Research interests:  Trace analysis

Chemical sensors and biosensors

Synthesis and development of nano-materials for analytical techniques

Recent publications (2016-2017)


**Curriculum vitae**

**Name:** Mr. Pongsaton Amornpitoksuk  
**Position:** Associate Professor  
**Organization:** Department of Chemistry, Faculty of Science, Prince of Songkla University, Thailand  
**Address:** 15 Kanjanavanit road, Hat-Yai, Songkhla, Thailand, 90112  
**E-mail:** pongsaton.a@psu.ac.th

**Education background:**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Year</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D. (Materials Science)</td>
<td>2007</td>
<td>UNIVERSITE MONTPELLIER II FRANCE</td>
</tr>
<tr>
<td>M.Sc. (Applied in Analytical and Inorganic Chemistry)</td>
<td>2002</td>
<td>Mahidol University THAILAND</td>
</tr>
<tr>
<td>B.Sc (Chemistry)</td>
<td>1998</td>
<td>Prince of Songkla University THAILAND</td>
</tr>
</tbody>
</table>

**Research Interests:** Material Chemistry, Photocatalyst, Metal Oxide

**Publications:**

2017

1. Intsrasuwan K, **Amornpitoksuk P**, Suwanboon S, Graidist P, Photocatalytic dye degradation by ZnO nanoparticles prepared from $X_2C_2O_4$ ($X$ = H, Na and NH$_4$) and the cytotoxicity of the treated dye Solutions. *Sep Purif Technol* 2017; **177**: 304-312.

2016


2015


2014


2013


2012


2011


2. Suwanboon S, **Amornpitoksuk P**, Sukolrat A, Dependence of optical properties on doping metal, crystallite size and defect concentration of M-doped ZnO nanopowders (M = Al, Mg, Ti). *Ceram Inter* 2011; **37**: 1359-1365.


4. Suwanboon S, **Amornpitoksuk P**, Preparation and characterization of nanocrystalline La-doped ZnO powders through a mechanical milling and their optical properties. *Ceram Inter* 2011; **37**: 3515-3521.


2010


2009


WILAWAN MAHABUSARAKAM

Position: Associate Professor (Organic Chemistry)

CONTACT ADDRESS
Department of Chemistry, Faculty of Science, Prince of Songkla University,
Hat-Yai, Songkhla, 90112
E-mail: wilawan.m@psu.ac.th

EDUCATION

# BSc (Chemistry), 1982, Prince of Songkla University, Thailand
# MS (Organic Chemistry), 1985, Prince of Songkla University, Thailand
# PhD (Organic Chemistry), 1992, University of Sydney, Australia

PUBLICATIONS


ประวัติพนักงาน

Name: SUCHADA CHANTRAPROMMA

Maiden Name: SUCHADA KHEAWSRIKUL

Born: May 22, 1965; Khonkaen, Thailand; Female

Education:


Profession:

1989 - 1994 Lecturer, Department of Chemistry, Prince of Songkla University
1994 - 1998 Assistant Professor, Department of Chemistry, Prince of Songkla University
1999-present Associate Professor, Department of Chemistry, Prince of Songkla University

Present Address:

Department of Chemistry, Faculty of Science, Prince of Songkla University, Hat-Yai, Songkhla 90112, Thailand.
Tel. 66 - 074 - 288447
Fax 66 - 074 - 212918
E-mail suchada.c@psu.ac.th
Awards:
- Best Graduate Research Award 2004 (Gold Prize), Universiti Sains Malaysia
- Most Publications and Most Citations Researcher Award (2006), Prince of Songkla University
- Best Researcher Award (2007), Faculty of Science, Prince of Songkla University
- Most Publications and Most Citations Researcher Award (2007), Prince of Songkla University
- Most Publications and Most Citations Researcher Award (2008), Prince of Songkla University
- Honorary Researcher (School of Physics, Universiti Sains Malaysia) 2008
- Most Publications and Most Citations Researcher Award (2009-2012), Prince of Songkla University
- Most Citations Researcher Award (2013-2015), Prince of Songkla University

Conferences and Workshops:

Local Conferences:
1. The 12th Conference on Science and Technology of Thailand, Bangkok, Thailand, October 20th -22nd, 1986.
5. The 1st Thai Chemical Conference and Chemical Technology Exhibition, Bangkok, Thailand, November 29th - December 3rd, 1989.

International Conferences:
11. The 8th Conference of the Asian Crystallographic Association (AsCA’07), Taipei, Taiwan, November 1st- 4th, 2007.

Collaborative research visiting:

1. X-ray Crystallography Unit, School of Physics, Universiti Sains Malaysia. (Prof. Hoong-Kun Fun and Assoc. Prof. Dr. Abdul Razak Ibrahim)
2. Coordination Chemistry Institute, Nanjing University, China. (Prof. Gou Shaohua)
3. Department of Chemistry, Anhui University, China. (Prof. Tian Yu-Peng)
4. Department of Material Science, Nanjing University Science and Technology, China. (Prof. Jian Fang-Fang)
5. X-ray Crystallography unit, University Henri Poincare, Nancy, France. (Prof. Claude Lecomte)
6. H.E.J research Institute, International Center for Chemical Science, University of Karachi, Pakistan. (Dr. Shazia Anjum)

Book

- Frontiers in Natural Product Chemistry
Editorial Advisory Board Member
- The Open Crystallography Journal (BENHAM OPEN)

Reviewer:

- Journal of Natural Product Research
- Journal of Alloy and Compounds
- Solid State Science
- Organic International Chemistry
- Medicinal Chemistry Research
- Molecules
- Acta Crystallographica Section E
- Latin American Journal of Pharmacy
- Pertanika Journal (Journal of Science and Technology)
- Archiv der Pharmazie
- Journal of Chemistry
- Journal of Crystallography
- Journal of Crystallization Process and Technology
- Heterocyclic communications
- Arabian Journal of Chemistry
- Journal of Molecular Chemistry
- Journal of Molecular Structure
- Bioinorganic Chemistry and Applications
- American Journal of Analytical Chemistry
- Phosphorus, Sulfur, and Silicon and the Related Elements

Selected Publications: (within 2010-2015)


4. Nawong Boonnak, Achjana Khamthip, Chatchanok Karalai, Suchada Chantrapromma, Chanita Ponglimanont, Akkharawit Kanjana-Opas, Supinya Tewtrakul,


“1-Methyl-2-((1E,3E)-4-phenylbuta-1,3-dienyl)pyridinium iodide: Synthesis, Characterization and X-ray Analysis”
Journal of Chemical Structural Chemistry, 55, 713-716.


17. Hoong-Kun Fun, **Suchada Chantrapromma** and Lye-Hock Ong (2014). “First Order Temperature Dependent Phase Transition in a Monoclinic Polymorph Crystal of 1,6-Hexanedioic Acid: An Interpretation Based on the Landau Theory Approach” Molecules, 19, 10137-10149.


SC 11/09/2015
Kwanruthai Tadpetch
Department of Chemistry, Faculty of Science
Prince of Songkla University
Hat Yai, Songkhla 90112 Thailand
Tel: (66)74 288437 Fax: (66)74 558841
E-mail: kwanruthai.t@psu.ac.th

Education:
- Ph.D. (Chemistry), University of California, Irvine, 2010
- M.S. (Chemistry), California State University, Fullerton, USA, 2005
- B.Sc. (Chemistry) (First Class Honors), Prince of Songkla University, Thailand, 2003

Appointment:
- Assistant Professor, Prince of Songkla University, Thailand: 2015-present
- Lecturer of Chemistry, Prince of Songkla University, Thailand: 2011-2015

Research Interests:
- Synthesis and medicinal chemistry of bioactive natural and unnatural products
- Development of new synthetic methods for heterocyclic compounds

Fellowships:
- Predoctoral and doctoral fellowships from the Development and Promotion of Science and Technology Talents Project (DPST), Thailand (1996-2010)

Publications: (* corresponding author)


Asst. Prof. Dr. Chongdee Thammakhet-Buranachai

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University Hat Yai, Songkhla, 90112

E-mail: tchongdee@gmail.com, chongdee.t@psu.ac.th

Research interests:  Development of sample preparation technique for trace organic compounds analysis

Chemical sensors

Recent publications (2016-2017)


JUTHANAT KAOEBAMRUNG

Position: Lecturer (Organic Chemistry)
Personal Data: Born, 1982; Martial Status, married

CONTACT ADDRESS

Department of Chemistry, Faculty of Science
Prince of Songkla University
Hat-Yai, Songkla, 90112, Thailand
Phone: 074-288449, 074-288193
Fax: 074-212918
E-mail address: juthanat.k@psu.ac.th

EDUCATION

2004 B.Sc. [Chemistry 1st Class Hons.], Prince of Songkla University, Hat-Yai, Songkla, Thailand
2011 PhD. [Organic Chemistry], University of Pennsylvania, Philadelphia, United States of America

RESEARCH INTEREST

- Development and Applications of New Catalytic Reactions
- Synthesis and Studies of Natural Products
- Design, Synthesis and Applications of Photosensitive Organic Molecules

EXPERIENCE

2005–2007 Part of my PhD. research, University of California at Santa Barbara, California, United States of America
2007–2011 Part of my PhD. research, University of Pennsylvania, Philadelphia, United States of America
2010–2011 Research, Swiss Federal Institute of Technology (ETH), Zürich, Switzerland

PUBLICATIONS (in scientific journals)
Rukachaisirikul, V.; Kaewbumrung, C.; Phongpaichit, S.; Hajiwangoh, Z. “Eudesmane Sesquiterpenes from the Aquatic Fungus Beltrania rhombica" Chem. Pharm. Bull. 2005, 53, 238. (Kaewbumrung, C. was misspelling, the correct one was Kaeobamrung, J.)


CURRICULUM VITAE

Asst.Prof.Dr.Nararak Leesakul
Lecturer at:
Department of Chemistry
Faculty of Science
Prince of Songkla University
Hat-Yai Songkhla, 90110
Tel.074-288421 Fax.074-558841
E-mail address: nararak.le@psu.ac.th

Academic Background

- B.Sc.(Chemistry) : Prince of Songkla University, Songkhla, 1998
- M.Sc. (Inorganic chemistry) : Prince of Songkla University, Songkhla, 2001
- Dr.Techn. (Photochemistry) : Physical and Theoretical Chemistry,
  Graz University of Technology, Graz, Austria, 2007

List of Journal Publications

* : corresponding author


List of conference proceedings


Oral and poster presentations


7. Workshop on Theoretical Chemistry 14-17 February 2006, Mariapfarr, Austria.


13. Electrochemistry cooperation workshop (Prof. Dr. Alan M. Bond group) 3-16 June, 1996, Monash University, Melbourne, Australia.


List of experienced researches

1. A colorimetric and luminescent chemosensors for metal ions based on azo-imine compound and its Iridium(III) complex

   Granted by:

   Young Researcher grant from The Thailand research fund (TRF) associated with Office of the Higher Education Commission (OHEC) and Prince of Songkla University, 2012

   ทุนพัฒนาศักยภาพในการทำงานวิจัยของอาจารย์รุ่นใหม่ ประจำปีงบประมาณ 2555 ได้รับการสนับสนุนตั้งแต่การทุนที่มีการทุนจากการทุนจากสภานักวิจัยของศิลปศาสตร์และมนุษยศาสตร์ของมหาวิทยาลัยสงขลานครินทร์

2. Synthesis, Characterization, Photo-physical properties, Electrochemistry and Antimicrobial Activity of Ruthenium(II) Complexes with p-Cymene and azo-imine Ligands

   Granted by:

   Young Researcher grant from the revenue of Prince of Songkla University, 2013

   ทุนพัฒนาศักยภาพในการทำงานวิจัยของอาจารย์รุ่นใหม่ (ทุนเงินรายได้) มหาวิทยาลัยสงขลานครินทร์ ประจำปีงบประมาณ 2556
**Academic Services**

1. Lecturer of PSU Academic Chemistry Olympic Camp, The Promotion of Academic Olympiads and Development of Science Education Foundation (POSN), THAILAND

2. Academic committee and chemistry mentor for Science classroom, PSU Wittyanusorn School

3. Invited lecturer for Science Math and English (SME) program, Saengthong Wittaya and Thidanukho School, Hatyai, Songkhla, THAILAND

4. Invited lecturer for Science classroom, Sadao Khanchaikamphalanonwanusorn School, Hatyai, Songkhla, THAILAND

5. Head of organizers, Intermediate English : Applying a job for chemistry students

**Administrative Position**

Assistant dean of International Relations (July, 2015-December, 2016)

---

Updated: 7th November 2016
Asst. Prof. Dr. Pipat Chooto

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University Hat Yai, Songkhla, 90112

E-mail: pipat.c@psu.ac.th

Research interests: Electrochemistry

Recent publications


**Chooto, P.** Muakthong, D. Innuphat, C. Wararatananuruk, P. Determination of inorganic arsenic species by hydride generation-inductively coupled plasma optical emission spectrometry 2016; ScienceAsia; Vol.42; Page:275-282.

Duangthong, S. Suwanin, A. **Chooto, P.** Innuphat, C. Flow injection-differential pulse anodic stripping voltammetry to measure As(III) and As(V) in natural water samples 2016; ScienceAsia; Vol.42; Page:266-274.


**Chooto, P.** Innuphat, C. Wararatananuruk, P. Lapinee, C. Cadmium and lead in seafood samples determined by solid phase extraction and graphite furnace atomic absorption spectrometry 2015; SCIENCEASIA; Vol.41; Page:35-41.

Wararatananuruk, P. **Chooto, P.** Sherdshoopongse, P. Innuphat, C. Lead determination in canned food by square-wave adsorptive cathodic stripping voltammetry 2014; ScienceAsia; Vol.40; Page:355-361.

**Chooto, P.** Wararatananuruk, P. Innuphat, C. Determination of trace levels of Pb(II) in tap water by anodic stripping voltammetry with boron-doped diamond electrode 2010; ScienceAsia; Vol.36; Page:150-156.
Name: Suda Chakthong

Academic Position: Lecturer (Assistant Professor)

E-mail: suda.c@psu.ac.th

Education:

- B.Sc. [Chemistry 2nd Class Hons.], 1998, Prince of Songkla University, Hat-Yai, Songkhla, Thailand
- Ph.D. [Organic Chemistry], 2004, Mahidol University, Rama VI Road, Bangkok, Thailand

Research interest:

- Natural Products

Contact Address

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Prince of Songkla University
Hat-Yai, Songkhla, 90112, Thailand
Tel: +66(0) 74288425, Fax: +66 (0) 74212918

Publications:


Name: SURAJIT TEKASAKUL, Ph.D
Present Address: Department of Chemistry, Faculty of Science,
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Hat-Yai, Songkhla 90112, Thailand
E-mail address : surajit.t@psu.ac.th
Academic Title: Assistant Professor (Chemistry)
Research Fields: Aerosol Science, Atmospheric Chemistry, Biomass Burning
Publications:

YAOWAPA SUKPONDMA

POSITION: Lecturer (Organic Chemistry)

CONTACT ADDRESS
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Phone: 074-288-449
Fax: 074-558-841
E-mail: yaowapa.suk@psu.ac.th

EDUCATION

• B.Sc. [Chemistry 2nd Class Hons.], 1998, Prince of Songkla University, Hat-Yai, Songkhla, Thailand
• M.Sc. [Organic Chemistry], 2001, Prince of Songkla University, Hat-Yai Songkhla, Thailand
• Ph.D. [Organic Chemistry], 2005, Prince of Songkla University, Hat-Yai Songkhla, Thailand

RESEARCH INTEREST

• Bioactive Natural Products

PUBLICATIONS (2008-2015)


Asst. Prof. Dr. Apon Numnuam

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla, 90112

E-mail: anumnuam@yahoo.com

Research interests: Electrochemistry

Affinity biosensor

Sensor

Recent publications


S. Sankoh, S. Samanman, O. Thipmanee, A. Numnuam, W. Limbut, P. Kanatharana, T.


Asst. Prof. Dr. Saowanit Saithong

Field of Interest

Solid-State Chemistry and Crystal Engineering

1) Metal Organic Framework (MOFs) complexes with a hybrid multi-functional ligands and applications such as luminescence and gas storage applications and etc.

2) The variation structures and supramolecular assemblies of compounds influence of crystal structure upon molecular structures.

Publications (2012-Present)


10) Kodcharat, K., Pakawatchai, C. & Saithong, S. Catena -Poly[silver(I)-bis[μ-4-methyl-1H-1,2,4-triazole-3(4H)-thione-κ²S :S]-silver(I)-di-μ-thiocyanato-κ²S :N;κ²N:S]. Acta Cryst. 2013, E69 : m265-m266.


Asst. Prof. Dr. Opas Bunkoed

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla 90112

E-mail: Opas1bunkoed@hotmail.com

Research interests: Chemical sensor

Chromatography and spectroscopy Techniques

Recent publications


P. Nurerk, P. Kanatharana, O. Bunkoed, A selective determination of copper ion in water samples based on the fluorescence quenching of thiol-capped CdTe quantum dots, Luminescence 2016. 31(2), pp. 515-522

T. Sukchuay, P. Kanatharana, R. Wannapob, P. Thavarungkul, O. Bunkoed, A polypyrrole/silica/magnetite nanoparticles as a sorbent for the extraction of sulfonamides from water samples, Journal of Separation Science 2015, 38(22), pp. 3921-3927


Chittreeya Tansakul
Ph.D.
Academic Faculty of Organic Chemistry
Department of Chemistry, Faculty of Science
Prince of Songkla University
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Professional Experience
• Academic Faculty of Organic Chemistry
  Department of Chemistry, Faculty of Science
  Prince of Songkla University
  Hat Yai, Thailand
  2012-Present
• Teaching Assistant of Organic Chemistry
  Department of Chemistry and Biochemistry, University of California, Santa Cruz, USA
  2007-2011

Education
• Ph.D. in Chemistry and Biochemistry, University of California, Santa Cruz, USA (2006-2012).
  Dissertation Title: Nitroxides: Profluorescent Sensors and Functionalized Alkoxyamine Initiators for
  Nitroxide Mediated Radical Polymerization.
  Advisor: Prof. Rebecca Braslau

• M.Sc. in Nanoscale Science and Technology (Merit), University of Leeds, UK (2005-2006).
  Dissertation Title: Self-Assembling Properties of Biologically Derived Lipids.
  Advisors: Prof. Paul Miller and Prof. Andrew Nelson

• B.Sc. in Chemistry (First Class Honors, GPA 3.96), Prince of Songkla University, Thailand (2001-2005).
  Senior Project Title: Chemical Constituents from the Fungus Lentinus Connatus BCC 8996.
  Advisor: Prof. Vatcharin Rukachaisirikul

Research Interests
Organic synthesis, Organic nanomaterials, Nitroxide mediated radical polymerization, Bioactive natural products

Publications (* corresponding author)


Book


Fellowships and Awards


• Winter 2010 Travel Grant Award from the UCSC Graduate Student Association (2010)

• Higher Education Strategic Scholarship for Frontier Research Network supported by the Royal Thai Government (for postgraduate program 2005-2011)

• The Development and Promotion of Science and Technology Talents Project supported by the Institute for the Promotion of Teaching Science and Technology of Thailand (for undergraduate program 2001-2005)

Presentations

• The 16th TRF-OHEC Conference, Cha-Um, Petchaburi, January 11-13, 2017, Tansakul, C.; Rukachaisirikul, V.; Tantisuwanno, C.; Yoksiri, C.; Talek, A. “Synthesis of Ionic Photochromic Red/Green/Blue Spirooxazines/Spiropyran for Self-Assembled Multilayer Thin Films” (Poster)

• The 4th NRCT-IFS Workshops: NRCT-IFS Collaborative Research in Natural Products and Agricultural Sciences, Luang Prabang, LPDR, February 19-24, 2016. Tansakul, C.; Rukachaisirikul, V.; Phongpaichit, S.; Sakayaroj, J. “Secondary Metabolites from Penicillium herquei PSU-RSPG93 and Structural Modification of Sporogen AO-1 isolated from Penicillium coptiola PSU-RSPG138” (Oral and Poster)


• The 40th Congress on Science and Technology of Thailand, Khon Kaen, December 2-4, 2014. **Tansakul, C.**; Rukachaisirikul, V.; Daengrot, C.; Supantanapong, N.; Phongpaichit, S.; Sakayaroj, J. “Structural Modification of Bioactive Sporogen AO-1 Isolated from the Soil Fungus *Penicillium coptiola* PSU-RSPG138” (Oral)

• The 39th Congress on Science and Technology of Thailand, Bangkok, October 21-23, 2013. **Tansakul, C.**; Kongprapan, T.; Maha, A.; Phongpaichit, S.; Towatana, N.; Rukachaisirikul, V. “Phenalenone Derivatives from the Soil Fungus *Penicillium herquei* PSU-RSPG93” (Oral)


Dr. Thitima Rujiralai

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University Hat Yai, Songkhla, 90112

E-mail: thitima.r@psu.ac.th

Research interests: Chromatography for pharmaceuticals, environmental estrogens in environment

Recent publications

R Manor, J. Kwangjai, T Rujiralai, E. Kumarnsit, Modification of sleep-waking and electroencephalogram induced by vetiver essential oil inhalation. JOURNAL OF INTERCULTURAL ETHNOPHARMACOLOGY, 2016, 5, 72-78.


Proceedings

S. Kaewsara, P. Malagul, P. Nilpradub, T. Rujiralai, Novel laboratory recycled water distillation, Proceeding in the Pure and Applied Chemistry International Conference 2015 (PACCON 2015), Amari Watergate Hotel, Bangkok, Thailand, 21-23 January 2015, page 144-146. (in English)


N. Raekasin, T. Rujiralai, W. Cheewasedtham, C. Cheewasedtham, Effect of acid-heat treatment on coenzyme Q\textsubscript{10} extraction efficiency from Artemia, Proceeding in the Pure and Applied Chemistry International Conference 2013 (PACCON 2013), Bangsaen Beach, Chonburi, 23-25 January 2013, Thailand, ID337-5867, page 1-5. (in English)

S. Jitlang, T. Rujiralai, W. Cheewasedtham, Method development for determination of \textit{N}-nitrosamines released by fruit juices from rubber teats, Proceeding in the 27\textsuperscript{th} National Graduate Research Conference, Naresuan University, Phitsanulok, Thailand, February 28 - March 1, 2013, P-ST069, page 1575-1585. (in English)
Education:

2008-2013  Ph.D. Chemical Engineering and Applied Chemistry, Aston University, United Kingdom

2007-2008  M.Sc. Chemical Process Technology, Aston University, United Kingdom

2002-2006  B.Sc. Chemistry (First Class Honours), Prince of Songkla University, Thailand

Research Interest:

- Biomass, Bioenergy and Biorefinery
- Thermochemical conversion – Pyrolysis
- Bio-based materials from biomass
- Kinetics of pyrolysis conversion

Publications:


**Conferences/Proceedings:**


Dr. Puchong Worarattananurak

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University Hat Yai, Songkhla, 90112

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Research interests: Spectroscopy  
Electrochemistry

Recent publications


Chooto, P. Innuphat, C. Wararatananuruk, P. Lapinee, C. Cadmium and lead in seafood samples determined by solid phase extraction and graphite furnace atomic absorption spectrometry 2015; SCIENCEASIA; Vol.41; Page:35-41.

Wararatananuruk, P. Chooto, P. Sherdhoopongse, P. Innuphat, C. Lead determination in canned food by square-wave adsorptive cathodic stripping voltammetry 2014; ScienceAsia; Vol.40; Page:355-361.

Chooto, P. Wararatananuruk, P. Innuphat, C. Determination of trace levels of Pb(II) in tap water by anodic stripping voltammetry with boron-doped diamond electrode 2010; ScienceAsia; Vol.36; Page:150-156.
Dr. Supunnee Duangthong

Analytical Chemistry

Department of Chemistry, Faculty of Science, Prince of Songkla University Hat Yai, Songkhla, 90112

E-mail: supunnee.d@psu.ac.th

Research interests: Spectroscopy

Recent publications
Duangthong, S. Suwanin, A. Chooto, P. Innuphat, C. Flow injection-differential pulse anodic stripping voltammetry to measure As(III) and As(V) in natural water samples 2016; ScienceAsia; Vol.42; Page:266-274.

Proceedings
Asst. Prof. Dr. Warakorn Limbut

Analytical Chemistry

Department of Applied Science, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla, 90112

E-mail: warakorn.l@psu.ac.th

Research interests:  Biosensor and chemical sensor  
                      Electrochemical sensor

Recent publications


Curriculum Vitae

Name: Dr. Klatnatee Vepulanont
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Mobile: +66 956 461 767

Educational Qualifications:

- PhD. Chemical and Biological Engineering, University of Sheffield, UK
  Thesis: The effect of chlorinated water on the crevice corrosion behaviour of austenitic stainless steel
  The research involved creation of simulated crevice corrosion system in a chlorinated drinking water environment, to mainly study the initiation of crevice stage by using multi analysis approaches which were SEM, AFM, Electrochemical testing (Potentiodynamic, $E_{corr}$ vs Time, Cyclic polarization and Potentiostat). In addition, M-code has been written specific for this research by using Matlab software to developed 3D and contour map of initiation pits. This program allowed more information to be obtained from data sets, such as counting number of initiation pit, area and volume automatically. This research combined both practical laboratory and computer modelling work.

  **Main interests:** Chlorination, water treatment, Environment, Corrosion, Electrochemistry, Matlab Computer modelling, Stainless steel.

- MPhil, Material Science and Engineering, University of Sheffield, UK
  Thesis: Kinetics and structure of oxide scale formation on stainless steels under simulated gas-fired furnace condition
  The research involved the formation of oxide scale at furnace atmosphere in annealing process to study surface structure, morphology of oxide and kinetic mechanism. The main objective was to be able to indicate the type of oxides at high temperature (i.e FeO, Fe$_2$O$_4$, Fe$_3$O$_4$, or other form of oxides). X-ray diffraction, SEM and EDS was use to investigate solute redistribution and morphology. This research will be useful for oxide removal process in annealing.

  **Main interests:** Surface oxide formation, Stainless steel, Annealing treatment, Advanced experimental techniques, Advanced Metallurgy.
Thesis: Study and development of surface quality of stainless steel AISI 316L of medical applications and testing by electrochemical techniques.

The main objective of this research was to study and develop surface quality of stainless steel for medical applications by using different chemical solutions, to create or assist the formation of passive film on stainless steel. Then compare surface quality from different solutions by using electrochemical techniques to find the highest endurance and corrosion resistance stainless steel in body fluid. This research was in the test process of improving and selecting the right alloy for hip replacement, screw and nuts for broken bone in humans.

Main interests: Corrosion, Biomaterials, Advanced electrochemistry and corrosion.

Thesis: Synthesis and study the effect of primary (ester and derivative of phenol), secondary antioxidant (Thioester) and transition metal for Polypropylene extrusion process.

This research involved organic and transition metal synthesis to improve quality of antioxidant in PP extrusion process. The objective is to improve the appearance of polypropylene and other physical properties such as tensile strength, elastic and etc. This research combined with organic synthesis and plastic technology. Mainly on this research had focused on ester, thioester and derivative of phenol by reaction mechanism of organic molecule and its structure with polypropylene.

Main interests: Antioxidant, Plastic technology, Organic and inorganic synthesis, Polymer chemistry

Publications:

Curriculum Vitae

Name : LAEMTHONG CHUENCHOM

Born : September 2, 1979; Phuket, Thailand; Male

Education : B.Sc. (2001) [Chemistry 2nd Class Hons.], Prince of Songkla University, Thailand
            M.Sc. (2004) [Physical Chemistry], Prince of Songkla University, Thailand
            Dr.rer.nat. (2013) [Physical Chemistry], Justus-Liebig University of Giessen, Germany

Profession: Physical Chemistry, Materials Chemistry

Present Address: Department of Chemistry, Faculty of Science, Prince of Songkla University
                 Hat-Yai, Songkhla, 90112, Thailand
                 Tel. (074) 288416 , Fax. (074) 558841
                 E-mail address: laemthong.c@psu.ac.th

Field of Specialization: Carbon Science, Porous Materials, Nanostructured Materials,
                        Green Chemistry and Sustainable Chemistry, Polymer Chemistry

Research Interests:
Carbon materials, including porous carbons, carbon nanotubes (CNTs), graphene, graphene oxide
(GO) have attracted much attention as promising materials for environmental remediation due to their
chemical stability, high surface area and pore volume.

In general preparation, carbon adsorbents are produced by chemical or physical activation
processes frequently using biomass materials as precursors. However, the preparation of carbon
materials used as adsorbents for the water remediation by such processes presents many drawbacks
mainly because of high temperatures and toxic chemicals consumed, resulting in the destruction of
the environment.

Top-down

Bottom-up

Resorcinol-Formaldehyde (RF) based carbon aerogels
So our target is focused on the strategies to prepare functional carbon materials through sustainable green methods. Moreover, they have been used as effective adsorbents. Our research focus is divided into 2 projects as follows:

1. **Hydrothermal Carbonization of biomass**

   Hydrothermal carbonization (HTC), which involves the hydrothermal decomposition of various carbohydrates in aqueous solutions at low temperature, has evolved as an alternative method for producing porous carbons because of its advantages of being cheap and green as it involves no organic solvents. In general, HTC involves heating of aqueous dispersion of biomass containing lignocellulose, cellulose and lignin in a closed system at low temperatures to yield carbon-rich, hydrophilic solid called “hydrochar”.

   Biomass from agricultural wastes is considered as a very important feed-stock for HTC because they are renewable sources and low-cost materials. They possess chemicals as suitable precursors for the HTC. In addition, these materials possess incipient porosity and interesting morphologies for example, the needle-like or nanofiber structure.

   Various types of agricultural materials have been employed as precursors for the HTC; nevertheless, various types of biomass readily available in Thailand, for example, sugarcane bagasse, risk husk, etc., have scarcely been employed as precursors for the production of porous carbon materials through HTC.

   According to the literature, carbon materials prepared by HTC pose difference in both macroscopic and pore morphology, and surface chemistry in comparison with ones prepared using the conventional activation techniques. For this reason, the HTC method has become an alternative method to prepare carbon materials as adsorbents for the remove of toxic chemical from waste water.

![Functional carbon materials from natural resources through low-temperature hydrothermal carbonization](image_url)

2. Hierarchically porous carbon materials

The hierarchically porous carbon materials (HPCMs) possess pores of well-defined and interconnected porous structures both in the mesopore and macropore regions. Macropores can provide highly efficient mass transport while mesopores can give rise to high surface area and large pore volumes, as well as act as active adsorption sites. The main motivation behind this activity is a combination of different pore sizes in the meso/macropore regions. Therefore, in this project, we present the novel synthesis of new HPCMs by using natural macroporous structures present in many types of biomass. These unique features make this material a potential scaffold for mass production of monolithic HPCMs by the interaction of hydroxyl groups of the biomass surface with carbon precursors. Mesopore structures coated on the macropores of the scaffold are obtained through the synthesis based on self-assembly of environmentally friendly precursors with a template. To the end, these novel HPCMs have been employed as adsorbents to investigate the potential performance in adsorption of toxic chemicals.

Grants Awarded:


- 2001-2004, Partial support from Postgraduate Education and Research Program in Chemistry, Thailand (PERCH) under the Higher Education Development Project (HEDP, Loan 1699-THA) funded from the Asian Development Bank (ADB) loan and the counterpart fund from the Royal Thai Government (RTG)

- 2000-2004, Development and Promotion of Science and Technology Talent (DPST) Scholarship from the Institute for Promotion of Teaching Science and Technology, Thailand.
Selected Publications and Proceedings:

1) “Generation of hierarchical meso-macro porous carbon from mesophase pitch by spinodal decomposition with polymer template”

2) “Adsorption efficiencies of calcium (II) ion and iron (II) ion on activated carbon obtained from pericarp of rubber fruit”

3) “Adsorption of phenol from diluted aqueous solutions by activated carbons obtained from bagasse, oil palm shell and pericarp of rubber fruit”

4) “New Triblock Copolymer Templates, PEO-PB-PEO, for the synthesis of titania films with controlled mesopore size, wall thickness, and bimodal porosity”

5) “Recent progress in soft-templating of porous carbon materials”

6) “Preparation and Characterization of Porous Carbon Materials from Bagasse by Hydrothermal Carbonization Process” *(Proceeding)*
   T. Srisong, S. Tekasakul, O. Sirichote, P. Amornpitoksu, L. Chuenchom*
   Pure and Applied Chemistry International Conference 2014 (PACCON 2014), Khon Khen, Thailand, 8-10 January 2014.

7) “Highly Active Binder-Free Catalytic Coatings for Heterogeneous Catalysis and Electrocatalysis: Pd on Mesoporous Carbon and Its Application in Butadiene Hydrogenation and Hydrogen Evolution”

8) “Magnetic carbon composites with a hierarchical structure for adsorption of tetracycline, prepared from sugarcane bagasse via hydrothermal carbonization coupled with simple heat treatment process”
Reviewer: for
Songklanakarin Journal of Science and Technology, Bioresource Technology, PACCON

Awards

1.รางวัลชมเชย ความคืบหน้าทางวิทยาศาสตร์และเทคโนโลยีเพื่อการพัฒนาอย่างยั่งยืน ครั้งที่ 8 หรือ STISA 8 (พ.ศ. 2558) ในหัวข้อ “การเตรียมวัสดุคาร์บอนที่มีสารแม่เหล็กจากชานอ้อย โดยกระบวนการไฮโดรเทอร์มอลคาร์บอนในเชิงเพื่ออุตสาหกรรม,”
นางสาว ออมลรดา สานิง, นางสาว รัชฎาพร เกื้อสุข, นาย ปิยมิตร ท้วมศรี, นางสาวพรหมชนก ชุมทรัพย์, นายณัฐนันท์ รัตนชื่นสกุล และดร.แหลมทอง ชื่นชม

2.รางวัลระดับเหรียญทอง ผลงานประกวด เรื่อง “Preparation of magnetic carbon materials from sugarcane bagasse using low-temperature hydrothermal carbonization process” (การเตรียมวัสดุคาร์บอนที่มีสารแม่เหล็กจากชานอ้อยโดยกระบวนการไฮโดรเทอร์มอลคาร์บอนในเชิงเพื่ออุตสาหกรรม) จาก World Invention Intellectual Property Associations (WIIPA) และ Taiwan Invention Products Promotion Association (TIPPA) ในการประชุมวิชาการ 2016 Kaohsiung International Invention and Design EXPO ประเทศไต้หวัน เมื่อวันที่ 9-12 ธันวาคม 2559 ณ International Convention center Kaohsiung, Taiwan และได้รับถ้วยเกียรติศิลปินรางวัล MyRIS AWARD (Special Prize on Stage) สำหรับ Best Presentation Award จาก Malaysian Research & Innovation Society ประเทศมาเลเซีย
ดร.แหลมทอง ชื่นชม, นายณัฐนันท์ รัตนชื่นสกุล, นางสาว ออมลรดา สานิง, นางสาว รัชฎาพร เกื้อสุข, นายปิยมิตร ท้วมศรี, นางสาวพรหมชนก ชุมทรัพย์

3.รางวัลรองชนะเลิศอันดับที่ 1 การประกวดโครงการ “Mitr Phol Bio Innovator Awards 2016” นวัตกรรมความคิด พลิกชีวิตสู่อนาคต ประจำปี 2559 ในหัวข้อ “นวัตกรรมการก่าจัดน้้าเสียด้วยถ่านแม่เหล็กชานอ้อยและใบอ้อย” ได้รับรางวัล ณ วันที่ 4 มีนาคม 2560
นางสาวพรหมชนก ชุมทรัพย์, นางสาวศิรินา ถ้ามหาวงศ์, นางสาวณัฐสุดา แสงวิเชียร, นายปิยมิตร ท้วมศรี (อ.ที่ปรึกษาโครงการ ดร.แหลมทอง ชื่นชม)

Conference Presentations and Workshops:

- Participation in

- Participation in
PERCH Congress II, Jomtien Palm Beach Hotel, Pattaya, Chonburi, Thailand, 5-7 May 2002.

- “Adsorption of Cadmium (II) and Lead (II) ions on activated carbons obtained from agricultural by-product materials” (Best Oral Presentation)
L. Chuenchom, S. Teekasakul, W. Innajitara, O. Sirichote
PERCH Congress III, Jomtien Palm Beach Hotel, Pattaya, Chonburi, Thailand, May 2003.
- “In-situ SAXS/Physisorption for porous carbons” (Oral Presentation)
  L. Chuenchom, B. M. Smarsly, P. Adelhelm, G. A. Zickler

  20. Deutsche Zeolith-Tagung (20th German Zeolite Conference), Halle/Wittenberg, Germany, 5-7 March 2008.

- “Mesoporous carbons by spinodal decomposition of mesophase pitch and poly(methylmethacrylate) (PMMA)” (Poster Presentation)
  L. Chuenchom, B. M. Smarsly, P. Adelhelm, M. Antonietti

  20. Deutsche Zeolith-Tagung (20th German Zeolite Conference), Halle/Wittenberg, Germany, 5-7 March 2008.

- “In-situ SAXS/physisorption for porous carbons: A novel analysis method for advanced pore morphology elucidation” (Poster Presentation)
  L. Chuenchom, B. M. Smarsly, P. Adelhelm, G. A. Zickler, R. Kraehnert


- Participation in
  42. Jahrestreffen Deutsche Katalytiker (42nd Annual Meeting of German Catalysis), Weimar, Germany, 11-13 March 2009.

- “Crack-free mesoporous carbon films with open cubic pores through soft-templating” (Poster Presentation)
  L. Chuenchom, E. Ortel, B. Paul, B. M. Smarsly, R. Kraehnert

  22. Deutsche Zeolith-Tagung (22nd German Zeolite Conference), Munich, Germany, 3-5 March 2010.

- “Soft-templating synthesis of mesoporous carbon coatings with pores bigger than 10 nm templated with a novel block-copolymer” (Poster Presentation)
  L. Chuenchom, E. Ortel, B. M. Smarsly, R. Kraehnert

  23. Deutsche Zeolith-Tagung (23rd German Zeolite Conference), Erlangen, Germany, 2-4 March 2011.

- “Preparation and Characterization of Porous Carbon Materials from Bagasse by Hydrothermal Carbonization Process” (Poster Presentation)
  T. Srisong, S. Tekasakul, O. Sirichote, P. Amornpitoksuk, L. Chuenchom

  Pure and Applied Chemistry International Conference 2014 (PACCON 2014), Khon Khen, Thailand, 8-10 January 2014.
- Participation in

- “Magnetic Carbon Materials as Adsorbents Prepared by Hydrothermal Carbonization Method” (Poster Presentation)
  N. Rattanachueskul, A. Saning, L. Chuenchom


- “Preparation of Carbon Adsorbents from Sugarcane Bagasse through Hydrothermal Carbonization for Adsorption of Dyes” (Poster Presentation)
  L. Chuenchom, P. Buapeth, P. Toumsri, H. Chunate, H. Sohoi, S. Sphantong

Curriculum Vitae

Name : Mrs. Uraiwan Sirimahachai

Date of Birth : 12 March 1975

Education :

- B. Sci. (Chemistry), Prince of Songkla University, Thailand, March, 1996.
- Ph.D. (Chemistry), Prince of Songkla University, Thailand, November, 2010.

Profession : lecturer

Present Address : Department of Chemistry, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla, 90112, Thailand
Tel. (074) 288-401
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E-mail: uraiwan.s@psu.ac.th

Field of Specialization : - Inorganic Chemistry
- Metal oxide

Grants Awarded :

1. 1998 – 1999 Royal Thai Government Scholarship
2. 1999 – 2000 Financial supported from the Postgraduate Education and Research Program in Chemistry (PERCH), Thailand
4. 2007 Partial support fund from the NSF Science and Technology Center of Advanced Materials for Purification of Water with Systems (WaterCAMPWS), University of Illinois at Urbana-Champaign, for working in U.S.A. (3 months).
Publications:


Conference proceeding


Date: March, 2017.