

7.2 ผลงานวิจัย (5 ปีย้อนหลัง)

7.2.1 บทความวิชาการตีพิมพ์ในวารสารนานาชาติ

1. Katanyoota, P., Chaisuwan, T., Wongchaisuwat, A., Wongkasemjit, S. "Novel Polybenzoxazine-based Carbon Aerogel Electrode for Supercapacitors", *Materials Science and Engineering B*, 167 (2010) 36–42.
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3. Pakkethati, P., Boonmalert, A., Chaisuwan, T., Wongkasemjit, S., "Development of Polybenzoxazine Membranes for Ethanol/water Separation via Pervaporation Technique", *Desalination*, 267 (2011), 73–81.
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9. Thubsuang, U., Ishida, H., Wongkasemjit, S., Chaisuwan, T. "Novel templating confinement derived from polybenzoxazine-based carbon xerogels for synthesis of ZSM-5 nanoparticles via microwave irradiation", *Microporous and Mesoporous. Mater.*, (2012) 156, 7–15.
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separation via pervaporation technique”, *Materials Research Innovations*, 2012, 16(4), 243-248.

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12. Thubsuang, U., Ishida, H., Wongkasemjit, S, and Chaisuwan, T. "Improvement in the pore structure of polybenzoxazine-based carbon xerogels through a silica templating method", *Journal of Porous Materials*, 2014, 21(4), 401-411.
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18. Thubsuang, U., Sukanan, D., Sahasitthiwat, S., Wongkasemjit, S., Chaisuwan, T. “Highly sensitive room temperature organic vapor sensor based on polybenzoxazine-derived carbon aerogel thin film composite” *Materials Science and Engineering: B*, 2015, 200, 67-77.
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7.2.2 การเสนอผลงานวิจัยในที่ประชุมวิชาการนานาชาติ

1. Thanyalak Chaisuwan¹, Sujitra Wongkasemjit² and Nicharat Manmuanpom. Hierarchichal N-Rich Nanoporous Carbon Derived from Polybenzoxazine Via Sol-Gel Process and Its Application As the CO₂ Adsorbent. AIChE-2015 Annual Meeting
2. Sujitra Wongkasemjit, Hussaya Maneesuwan (2015, May 6-8) Synthesis and application of bimetallic mesoporous silica. SPM-3 &Mini SPM-2, The Petroleum and Petrochemical College, Chulalongkorn University, Bangkok, Thailand
3. P. Chuntanalerg, S. Kulprathippanja, P. Aungkavattana, K. Hemra, T. Chaisuwan, and S. Wongkasemjit*(2015, May 6-8) Performance of NaA/Polybenzoxazine Mixed Matrix Membrane in Pervaporation Separation of Ethanol/water Mixtures. SPM-3 &Mini SPM-2, The Petroleum and Petrochemical College, Chulalongkorn University, Bangkok, Thailand
4. Ninlerd, A.; Ksapabutr, B.; Wongkasemjit, S.; and Chaisuwan T. (2014, November 22-25) Nanoporous Carbon for the Applications in Supercapacitor and Batteries. Poster presented at the 2014 Energy Materials Nanotechnology (EMN) Fall Meeting, Orlando, FL, USA.
5. Thawepornpuriphong, T.; Ksapabutr, B.; Wongkasemjit, S.; and Chaisuwan T. (2014, November 22-25) Study of morphologically-designed polybenzoxazine as electrode material for supercapacitor by using soft-templating method. Poster presentation at the 2014 Energy Materials Nanotechnology (EMN) Fall Meeting, Orlando, FL, USA.
6. Chokaksornsans, N.; Ksapabutr, B.; Wongkasemjit, S.; and Chaisuwan T. (2014, November 22-25) Novel CO₂ Storage by using Hierarchical N-rich Nanoporous Carbon via Facile Templates Synthesis as an Adsorbent. Poster presentation at the 2014 Energy Materials Nanotechnology (EMN) Fall Meeting, Orlando, FL, USA.
7. Chaisuwan, T.; Thubsuang, U.; and Wongkasemjit, S. (2014, November 22-25) Hybrid Composites of Porous carbon and Iron Oxide for Supercapacitor – Morphological and Electrochemical Studies. Oral

presentation at the 2014 Energy Materials Nanotechnology (EMN) Fall Meeting, Orlando, FL, USA.

8. Maneesuwan, H.; Chaisuwan, T.; and Wongkasemjit, S. (2014, August 10-14) Synthesis and characterization of bimetallic MCM-48 nanostructure from silatrane via sol-gel process. Paper presented at The 248th ACS National Meeting & Exposition Conference 2014, San Francisco, USA.
9. Ratchadaporn Kaewmuang, Thanyalak Chaisuwan, Sujitra Wongkasemjit, “High selectivity of benzoquinone using Ti-Fe-SBA-15 catalyst synthesized from Silatrane”, International Conference on Surfaces, Coatings and Nanostructured Materials, May 19-22, 2014, Houston, Texas, USA
10. Watcharin Khatdet, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Modification of Polybenzoxazine-Derived Nanoporous Carbon by Heat Treatment ”, the 2014 MRS Spring Meeting, April 21-25 2014, San Francisco, California, USA.
11. Khemrada Chaiwichian, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Green Porous Hybrid Composite and Its Application as a Carbon Dioxide Adsorbent ”, the 2014 MRS Spring Meeting, April 21-25 2014, San Francisco, California, USA.
12. Nattikarn Moonpho, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Preparation of Polybenzoxazine Based Mesoporous Carbon by Soft-Templating Method for Application in Supercapacitor”, the 2014 MRS Spring Meeting, April 21-25 2014, San Francisco, California, USA.
13. Sedthakij Udom, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Morphological and Electrochemical Studies of a Hybrid Composite of Iron Oxide/Carbon Xerogel Nanocomposites for Supercapacitors”, the 2014 MRS Spring Meeting, April 21-25 2014, San Francisco, California, USA.
14. Darin Khumsupan, Tidarat Komolwanich, Sirirat Prasertwasu Thanyalak Chaisuwan, Apanee Luengnaruemitchai, and Sujitra Wongkasemjit, “Efficient method to ethanol production from Mission grass”, JSPS

Core-to-Core Program on Future Vision of Green Mobility and Advanced Technologies for Realizing the Vision, Bangkok, Thailand, December 2, 2013.

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16. S. Wongkasemjit, S. Treeboobpha, A. Luengnaruemitchai, T. Chaisuwan, "Optimization of Monomeric Sugar Production from Thai *Napier grass* via Two-Stage Microwave/Chemical Pretreatment Process", JSPS Core-to-Core Program on Future Vision of Green Mobility and Advanced Technologies for Realizing the Vision, Hanoi, Vietnam, November 25, 2013.
17. T. Komolwanich, P. Tatijarern, S. Prasertwasu, T. Chaisuwan, A. Luengnaruemitchai, S. Wongkasemjit, "Evaluation of Monomeric Sugar Yield from Various Thai Grasses by Two-Stage Microwave/Chemical Pretreatment Process", JSPS Core-to-Core Program on Future Vision of Green Mobility and Advanced Technologies for Realizing the Vision, Hanoi, Vietnam, November 25, 2013.
18. P. Chuntanaler^a, C. Choedchun, N. Saelim, S. Kulthippanja, T. Chaisuwa^a, and S. Wongkasemjit, "Fully cross-linked polybenzoxazine membranes – The separation performance in water-ethanol pervaporation", JSPS Core-to-Core Program on Future Vision of Green Mobility and Advanced Technologies for Realizing the Vision, Hanoi, Vietnam, November 25, 2013.
19. Thanyalak Chaisuwan, Uthen Thubsuang, and Sujitra Wongkasemjit, "Improvement in pore structure of polybenzoxazine-based carbon xerogels through a silica templating method", the 2nd International Symposium on Polybenzoxazine, the 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, 2013.

20. Sakkawet Yorsaeng, Thanyalak Chaisuwan, and Sujitra Wongkasemjit, "Synthesis and morphological investigation of polybenzoxazine-derived porous carbon", the 2nd International Symposium on Polybenzoxazine, the 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, 2013.
21. Settakit Udom, Thanyalak Chaisuwan, and Sujitra Wongkasemjit, "Electrodes for supercapacitors from hybrid composites of Fe_2O_3 and porous carbon", the 2nd International Symposium on Polybenzoxazine, the 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, 2013.
22. Sujitra Wongkasemjit*, and Rujirat Longloilert, "Mesoporous materials from a novel silica source", International Conference on Porous Powder Materials (PPM-2013), Izmir, Turkey, September 3-6, 2013.
23. Nicharat Manmuanpom, Sujitra Wongkasemjit, Stephan Thierry Dubas, Thanyalak Chaisuwan, "Facilitated Transport Membrane for Flue Gas Separation Using Silver-Inclusion Method", PRESCO 2013, The 2nd Annual Pacific Rim Energy and Sustainability Conference, Aug 27, 2013 - Aug 29, 2013, KKR Hotel Hiroshima, Hiroshima, Japan
24. Panupong Chuntanalerg, Nion Sae Lim, Santi Kulthippanja, Thanyalak Chaisuwan, and Sujitra Wongkasemjit, "Performance of fully-cured polybenzoxazine membranes for water-ethanol separation via pervaporation", 2nd International Conference on Materials for Energy, Convention Center Karlsruhe, Germany, May 12-16, 2013.
25. Patomwat Tatjarern, Sirirat Prasertwasu, Tidarat Komolwanich, Thanyalak Chaisuwan, Apanee Luengnaruemitchai, Sujitra Wongkasemjit, (April 21-25, 2013) MONOMERIC SUGAR RELEASING FROM GIANT REED (*ARUNDO DONAX L.*) BY TWO-STAGE MICROWAVE-ASSISTED SODIUM HYDROXIDE AND SULFURIC ACID TREATMENT FOR BIOETHANOL PRODUCTION, the 9th European Congress of Chemical Engineering / 2nd European Congress of Applied Biotechnology, to be held in The Hague, The Netherlands

26. Thanyalak Chaisuwan, Uthen Thubsuang, and Sujitra Wongkasemjit, "Effects of Non- and Cat-ionic Surfactants on Textural Properties of Polybenzoxazine-based Carbon Xerogel", the 2013 MRS Spring Meeting, on April 1-5, 2013, San Francisco, California, USA.
27. Nicharat Manmuanpom, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Facilitated Transport Porous Polybenzoxazine Membrane for Flue Gas Separation", the 2013 MRS Spring Meeting, on April 1-5, 2013, San Francisco, California, USA.
28. Vararat Swatdiponphallop, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Preparation of Porous Hybrid Composite from Calcium Sand", the 2013 MRS Spring Meeting, on April 1-5, 2013, San Francisco, California, USA.
29. Sirapop Prathumthone, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Hybrid Porous Carbon Nanocomposites as a Sensor for Organic Vapor Detection", the 2013 MRS Spring Meeting, on April 1-5, 2013, San Francisco, California, USA.
30. Jutta Jaroonsriattikhun, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Designing Microstructure of Nanoporous Carbon as a Catalyst Support for Biodiesel Production", the 2013 MRS Spring Meeting, on April 1-5, 2013, San Francisco, California, USA.
31. Nutcha Prasertnasung, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Commercial Preparation of Wood Plastic Composites Incorporated with Nanoclay", the 2013 MRS Spring Meeting, on April 1-5, 2013, San Francisco, California, USA.
32. Kanokporn Wongthai, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Nanoporous Carbon Membrane Prepared from Aromatic Benzoxazine Precursor for CO₂/CH₄ Separation", the 2013 MRS Spring Meeting, on April 1-5, 2013, San Francisco, California, USA.
33. Satita Hopetrungruang, Thanyalak Chaisuwan, Apanee Luengnaruemitchai, Sujitra Wongkasemjit, (2013, March 3-7) Synthesis of Pd-TUD-1 from silatrane via impregnation technique and its

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34. Budmuang, K., Chaisuwan, T., Luengnaruemitchai, A., and Wongkasemjit, S., (2013, March 3-7) Catalytic Activity of Pd Loaded MCM-48. Third International Conference on Multifunctional, Hybrid and Nanomaterials, The Hilton Sorrento Palace Hotel in Sorrento, Italy
35. Deeprasertkul, C., Chaisuwan, T., and Wongkasemjit, S., (2013, March 3-7) Synthesis of ordered mesoporous ceria using MCM-48 as template, Third International Conference on Multifunctional, Hybrid and Nanomaterials, The Hilton Sorrento Palace Hotel in Sorrento, Italy
36. Kiangkrai Chaikul, Thanyalak Chaisuwan, David A. Schiraldi, and Sujitra Wongkasemjit (2013, March 3-7) Aerogel from Egg Shell for Artificial Bone, Third International Conference on Multifunctional, Hybrid and Nanomaterials, The Hilton Sorrento Palace Hotel in Sorrento, Italy
37. Kiangkrai Chaikul, Thanyalak Chaisuwan, David A. Schiraldi, and Sujitra Wongkasemjit (2013, January 23-25) Aerogel from Egg Shell for Artificial Bone. Paper presented at Pure and Applied Chemistry International Conference 2013 (PACCON 2013), The Tide Resort, Bangsaen Beach, Chon Buri, Thailand.
38. Sujitra Wongkasemjit*, Rujirat Longloilert, Thanyalak Chaisuwan, Apanee Luengnaruemitchai, (11-15 March 2013) SYNTHESIS AND CHARACTERIZATION OF METAL-MCM-48 (M = TI, CR, AND CE) VIA HYDROTHERMAL TREATMENT AND SOL-GEL TECHNIQUE. POLYCHAR 21 World Forum on Advanced Materials, Gwangju, Republic of KOREA
39. Tatijarern, P., Prasertwasu, S., Komolwanich., T., Luengnaruemitchai, A., Chaisuwan, T., Wongkasemjit, S., (2012, November 29-30) Evaluation of monomeric sugar yield from various grasses grown in Thailand as biofuel feedstocks by two stage microwave/chemical pretreatment process. Oral presented at the 24th Annual Meeting of Thai Society for Biotechnology and International Conference (TSB 2012), Ubon Ratchathani, Thailand.

40. S. Wongkasemjit, C. Piwnuan, T. Chaisuwan, and A. Luengnaruemitchai, "Oxidation of dye using titania nanotubes", the First International Symposium on Advanced Water Science & Technology (ISAWST-1), on November 11-13, 2012, Nagoya, Japan (Invited).
41. Uthen Thubsuang, Hatsuo Ishida, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Development of polybenzoxazine-based carbon xerogels as a candidate adsorbent for wastewater treatment", the First International Symposium on Advanced Water Science & Technology (ISAWST-1), on November 11-13, 2012, Nagoya, Japan.
42. สุจิตรา วงศ์เกษมจิตต์ ธีรศักดิ์ ฤกษ์สมบูรณ์ ภาวดี อังค์วัฒน์ และเดโช कुमार, "การผลิต 99.5% เอทานอล", Thailand Research Symposium 2012, 24-28 August 2012, Bangkok, Thailand
43. Uthen Thubsuang, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, "Textural properties of polybenzoxazine-based porous carbon and its application for synthesis of ZSM-5 nanoparticles and catalytic activity", International Union of Materials Research Society – International Conference in Asia – 2012 (IUMRS-ICA-2012) 26-31 August 2012 at BEXCO, Busan, Korea
44. Sujitra Wongkasemjit, Thanyalak Chaisuwan, Patcharee Homyen. "Polybenzoxazine-based membrane for ethanol-water separation via pervaporation", International Symposium on Advanced Polymeric Materials 2012 (ISAPM 2012), Kuala Lumpur, Malaysia, 7 – 12 July 2012 (Invited).
45. Thanyalak Chaisuwan, Nuntiya Mahingsupan, and Sujitra Wongkasemjit, "Development of porous carbon derived from Polybenzoxazine and its application as an electrode for supercapacitors", The 4th International Conference "Smart Materials, Structures and Systems", Montecatini Terme, Italy, 10-14 June 2012
46. Uthen Thubsuang, Sujitra Wongkasemjit, and Thanyalak Chaisuwan*, "Polybenzoxazine-based porous carbon: Pore structure design and its application", The 4th International Conference "Smart Materials, Structures and Systems", Montecatini Terme, Italy, 10-14 June 2012

47. Longloilert, R., Luengnaruemitchai, A., Chaisuwan, T., Wongkasemjit, S., “Synthesis and characterization of Ce-MCM-48 from silatrane via sol-gel process”, the 3rd Research Symposium on Petrochemical and Materials Technology and the 18th PPC Symposium on Petroleum, Petrochemicals, and Polymers, Queen Sirikit National Convention Center, Bangkok, Thailand, April 24, 2012.
48. Nuttheewan Kittisarunlerd, Thanyalak Chaisuwan, Apanee Luengnaruemitr, and Sujitra Wongkasemjit*, “MCM-48-Polybenzoxazine mixed matrix membranes for CO₂/CH₄ separation”, the 243rd ACS National Meeting & Exposition, San Diego, California, USA, March 24-29, 2012
49. Chanakarn Piewnuan, Thanyalak Chaisuwan, and Sujitra Wongkasemjit*, “*Catalytic Activity of Titania Nanotubes*”, the 243rd ACS National Meeting & Exposition, San Diego, California, USA, March 24-29, 2012
50. Sujitra Treeboobpha, Thanyalak Chaisuwan, Apanee Luengnaruemitchai, and Sujitra Wongkasemjit, “Two Stage Chemical/Microwave Pre- treatment Process of *Napier Grass* for Ethanol Production”, the 243rd ACS National Meeting & Exposition, San Diego, California, USA, March 24-29, 2012
51. Patcharee Homyen, Sujitra Wongkasemjit, and Thanyalak Chaisuwan, “Newly Developed Polybenzoxazine-based Membrane for Ethanol-Water Separation via Pervaporation”, the 243rd ACS National Meeting & Exposition, San Diego, California, USA, March 24-29, 2012
52. Apirak Treeratdilokkul, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Polybenzoxazine Derived Porous Carbon Membrane for CO₂ Separation: Effect of Morphology on Separation Efficiency”, the 243rd ACS National Meeting & Exposition, San Diego, California, USA, March 24-29, 2012
53. Apiradee Nicharat, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Separation of n-hexane and 1-hexene using Metal Inclusion of Porous

Polybenzoxazine”, the 243rd ACS National Meeting & Exposition, San Diego, California, USA, March 24-29, 2012

54. Thanyalak Chaisuwan, Uthen Thubsuang, Sujitra Wongkasemjit, “Nanoporous carbon template derived from polybenzoxazine for synthesis of ZSM-5 via microwave irradiation”, 241st ACS National Meeting & Exposition, Anaheim, California, USA, March 27-31, 2011.
55. Pattheera Hongsamreong, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Supercapacitor from hybrid composite of nanoporous carbon and iron oxide”, 241st ACS National Meeting & Exposition, Anaheim, California, USA, March 27-31, 2011.
56. Nuttatape Jumpanoi, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Activated Carbon derived from Polybenzoxazine as a catalyst support for biodiesel production”, 241st ACS National Meeting & Exposition, Anaheim, California, USA, March 27-31, 2011.
57. Phitchaporn Sukcharoen, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Hybrid Composite Conductive Nanofiber: The Development towards Gas Sensor Application”, 241st ACS National Meeting & Exposition, Anaheim, California, USA, March 27-31, 2011.
58. Kirida Kunanuruksapong, Sujitra Wongkasemjit, Thanyalak Chaisuwan, “Property enhancement of polypropylene wood flour composite using new coupling agent”, 241st ACS National Meeting & Exposition, Anaheim, California, USA, March 27-31, 2011.
59. Wongkasemjit, S., Asavaputanapun, K., Luengnaruemitchai, A., Chaisuwan, T. (20-24 March, 2011) “STEAM REFORMING OF METHANOL OVER GDC AND METAL LOADED GDC CATALYSTS PREPARED VIA SOL-GEL ROUTE”, POLYCHAR 19 – World Forum on Advanced Materials, Kathmandu, Nepal (Invited)
60. D. Kunnakorn, T. Rirksomboon, K. Siemanond, P. Aungkavattana, N. Kuanchertchoo, D. Atong, K. Hemra, S. Kulprathipanja, R.B. James, and S. Wongkasemjit* (20-24 March, 2011) “Techno-economic comparison of energy usage between azeotropic distillation and hybrid system for

water– ethanol separation”, POLYCHAR 19 – World Forum on Advanced Materials, Kathmandu, Nepal

61. Pakkethati, K., Tungsattabutrat, N., Chaisuwan, T., Wongkasemjit, S. (20-24 March, 2011) “High Performance of Polybenzoxazine Membranes for Ethanol-Water Separation via Pervaporation Technique”, POLYCHAR 19 – World Forum on Advanced Materials, Kathmandu, Nepal
62. Wisedsri, R., Chaisuwan, T., Wongkasemjit, S. (20-24 March, 2011) “A simple route to bismuth titanate from bismuth glycolate precursor via sol-gel process”, POLYCHAR 19 – World Forum on Advanced Materials, Kathmandu, Nepal
63. Longloilert, R., Luengnaruemitchai, A., Chaisuwan, T., Wongkasemjit, S. (20-24 March, 2011) “Novel silica source for synthesis of MCM-48 via sol-gel process”, POLYCHAR 19 – World Forum on Advanced Materials, Kathmandu, Nepal
64. Khannika Jeamjumnunja, Thanyalak Chaisuwan, Apanee Luengnaruemitchai and Sujitra Wongkasemjit* (2010, January 28-29) “Effects of Pretreatment Conditions on Sugar Production of Sugarcane baggasse”, the International Conference on Chemical and Biomolecular Engineering (ChemBiotech’09-10), National University of Singapore, Singapore.
65. Asavaputanapun, K.; Luengnaruemitchai, A.; Chaisuwan, T.; and Wongkasemjit, S. (2010, March 21-25) Synthesis of $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$ and Metal loaded $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$ by novel sol-gel method. Paper presented at the 239th ACS National Meeting & Exposition Conference 2010, San Francisco, USA.
66. Aungkutrarnont, S.; Samran, B.; Chaisuwan, T.; and Wongkasemjit, S.; (2010, March 21-25) Synthesis of Fe- and Mo-SBA-15 via sol-gel process of silatrane. Paper presented at the 239th ACS National Meeting & Exposition Conference 2010, San Francisco, USA.
67. Luangsukrerk, S.; Wongkasemjit, S.; and Chaisuwan, T. (2010, March 21-25) Removal of Trace Contaminants from Wastewater by Using

Polybenzoxazine-based Aerogel: an Approach via Polymeric Ligand Exchange. Paper Presented at the 239th ACS National Meeting & Exposition, San Francisco, USA.

68. Mahingsupan, N.; Wongkasemjit, S.; and Chaisuwan, T. (2010, March 21-25) Novel Electrode for Supercapacitors from Carbon Aerogel Composites. Paper presented at the 239th ACS National Meeting & Exposition, San Francisco, USA.
69. Ngamlertassamee, P.; Kunnakorn, D.; Chaisuwan, T.; and Wongkasemjit, S. (2010, March 21-25) Synthesis of NaA zeolite membrane on polybenzoxazine support using autoclave technique and its performance. Paper presented at the 239th ACS National Meeting & Exposition Conference 2010, San Francisco, USA.
70. Ployangoonsri, N.; Pakkethati, K.; Wongkasemjit, S.; and Chaisuwan, T. (2010, March 21-25) Hybrid composite membrane for CO₂/CH₄ separation. Paper presented at the 239th ACS National Meeting & Exposition Conference 2010, San Francisco, USA.
71. Sukanun, D.; Wongkasemjit, S.; Sahasithiwat, S.; and Chaisuwan, T. (2010, March 21-25) Development of a Carbon Aerogel Composite Film for Gas Sensors. Paper presented at the 239th ACS National Meeting & Exposition, San Francisco, USA.
72. Thubsuang, U.; Wongkasemjit, S.; and Chaisuwan, T. (2010, March 21-25) Effect of solvent and concentrations on morphology of carbon aerogel derived from polybenzoxazine. Paper presented at the 239th ACS National Meeting & Exposition Conference 2010, San Francisco, USA.
73. Tungsattabud, J.; Pakkethati, K.; Wongkasemjit, S.; and Chaisuwan, T. (2010, March 21-25) Development of polybenzoxazine (PBZ) membranes for ethanol/water separation. Paper presented at the 239th ACS National Meeting & Exposition Conference 2010, San Francisco, USA.