Asst. Prof. Thanyalak Chaisuwan, Ph.D.

Address The Petroleum and Petrochemical College
Chulalongkorn University
Phyathai Road, Bangkok 10330
Tel: (662) 218-4185, Fax. (662) 215-4459
email: thanyalak.c@chula.ac.th

Educations

B.Sc. (Mat. Sci.)	Chulalongkorn University	1995
M.Sc. (Polym. Sci.)	Chulalongkorn University	1997
M.Sc. (Polym. Sci.)	Case Western Reserve University, U.S.A.	2001
Ph.D. (Polym. Sci.)	Case Western Reserve University, U.S.A.	2007

Professional experience

Chulalongkorn University
Assistant Dean for the Research Affairs (October 2014-present)
Petroleum and Petrochemical College (February 07-present)
King Mongkut University of Technology, Thonburi (July 97-Dec. 98)
Reviewer for:- International Journals

Grants/ Awards

2 Grants from Royal Thai Government Research (2010-2014)
2 Grants from Thailand Research Fund (2011-2013)
3 Grants from Ratchada pisake sompoch Fund (Chulalongkorn University)
1 Grants from National Nanotechnology Center, Thailand
1 Grant from from The Asahi Glass Foundation

Books 1 book chapter - "Handbook of Benzoxazine Resins", 2011

Patents (National) 2 Patents

ผลงานวิจัยที่พิมพ์เผยแพร่ (ระบุแหล่งพิมพ์และปีที่พิมพ์)

1. Thubsuang, U., Ishida, Wongkasemjit, S., Chaisuwan, T. “Advanced and economical ambient drying method for controlled mesopore polybenzoxazine-based carbon xerogels: Effects of non-ionic and cationic surfactant on porous structure” Journal of Colloid and Interface Science, 2015, 459, 241-249.
2. 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.
3. Chuntanalerg, P., Kulprathipanja, S., Chaisuwan, T., Aungkavattana, P., Hemra, K., Wongkasemjit, S. “Performance polybenzoxazine membrane and mixed matrix membrane for

ethanol purification via pervaporation applications", Journal of Chemical Technology and Biotechnology, 2015, *In Press*.
4. Deeprasertkul, C., Longloilert, R., Chaisuwan, T., Wongkasemjit, S. "Impressive low reduction temperature of synthesized mesopours ceria via nanocasting", Materials Letters, 2014, 130, 218-222.
5. Maneesuwan, H., Chaisuwan, T., Wongkasemjit, S. "Synthesis of Fe-Ti-MCM-48 from silatrane precursor via sol-gel process and its hydrothermal stability", Materials Chemistry and Physics, 2014, 146 (3), 374-379.
6. Maneesuwan, H., Tantisriyanurak, S., Chaisuwan, T., Wongkasemjit, S. "Impressive phenol hydroxylation activity using Fe-Ti-TUD-1 synthesized from silatrane via sol-gel process", Applied Catalyst A: General, 2014, *In Press.*
7. Thubsuang, U., Ishida, H., Wongkasemjit, S, and Chaisuwan, T. "Self-formation of 3D interconnected macroporous carbon xerogels derived from polybenzoxazine by selective solvent during the sol–gel process", Journal of Materials Science, 2014, 49(14), 4946-4961.
8. 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.
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.
10. Wongkasemjit, S., Asavaputanapun, K., Chaisuwan, T., Luengnaruemitchai, A., "Steam Refoming of Methanol over Gadolinium-doped Ceria (GDC) and Metal- loaded GDC Catalysts Prepared via Sol- gel Route", Materials Research Innovations, (2012) In press.
11. Ruethaithip Wisedsri, Thanyalak Chaisuwan, Sujitra Wongkasemjit*, "A simple route to bismuth titanate from bismuth glycolate precursor via sol-gel process", Materials Research Innovations, (2012) In press.
12. Pakkethati, K., Tungsattabutrat, N., Chaisuwan, T.,Wongkasemjit, S. "High performance of polybenzoxazine membranes for ethanol–water separation via pervaporation technique", Materials Research Innovations, (2012) In press.
13. Longloilert, R., Chaisuwan, T., Luengnaruemitchai, A., Wongkasemjit, S. "Synthesis and characterization of M-MCM-48 (M = Cr, Ce) from silatrane via sol-gel process", Journal of Sol-Gel Science and Technology, (2012) 61:133–143.
14. Boonmanumsin, P., Treeboobpha, S., Luengnaruemitchai, A., Chaisuwan, T., Wongkasemjit, S. "Release of monomeric sugars from *Miscanthus Sinensis* by microwave-assisted ammonia and phosphoric acid treatments", Bioresource Technology, 103 (2012) 425–431.
15. Wisedsri, R., Chaisuwan. T., Wongkasemjit, S. "Hierarchical architecture of $Bi_{12}TiO_{20}$ via ethylene glycol-mediated synthesis route", Materials Letters, 65 (2011), 3237-3240.
16. Longloilert, R., Chaisuwan, T., Luengnaruemitchai, A., Wongkasemjit, S. "Novel silica source for synthesis of MCM-48 via sol-gel process", Journal of Sol-Gel Science and Technology, 58 (2011), 427–435.
17. Lorjai, P., Chaisuwan, T., Jamieson, A., Wongkasemjit, S. "Significant Enhancement of Thermal Stability in the Non-oxidative Thermal Degradation of Bisphenol-A/aniline Based Polybenzoxazine Aerogel", Polymer Degradation and Stability, 96 (2011), 708-718.
18. Pakkethati, P., Boonmalert, A., Chaisuwan, T., Wongkasemjit, S., "Development of Polybenzoxazine Membranes for Ethanol/water Separation via Pervaporation Technique",Desalination, 267 (2011), 73-81.
19. Chaisuwan, T., Komalwanich, T., Luangsukrerk, S., Wongkasemjit, S., "Removal of heavy metals from model wastewater by using polybenzoxazine aerogel", Desalination, 256 (2010) 108–114.

20. 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.
21. Lorjai, P., Wongkasemjit, S., Chaisuwan, T., “Preparation of Polybenzoxazine Foam and Its Transformation to Carbon Foam”, Materials Science and Engineering: A, 527 (2009) 77–84.
22. Lorjai, P., Chaisuwan, T., Wongkasemjit, S. “Porous structure of polybenzoxazine-based organic aerogel prepared by sol–gel process and their carbon aerogels”, Journal of Sol-Gel Science and Technology, 52 (2009), 56-64.