

## Curriculum Vitæ

### 1. Personal Data



Name: Prof. Sujittra Youngme

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Faculty of Science Khon Kaen University, Khon Kaen  
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### 2. Education

- B.Sc. (1980) [Chemistry], Khon Kaen University, Khon Kaen, Thailand
- M.Sc. (1983) [Inorganic Chemistry], Chulalongkorn University, Bangkok, Thailand
- Ph.D. (1989) [Inorganic Chemistry], The National University of Ireland at University College Cork, Ireland

### 3. Professional Experience

Research field:

- Coordination Chemistry: synthesis, spectroscopic characterization, magnetism and crystal structure of transition metal complexes.
- Copper Coordination Chemistry: synthesis, electronic and molecular structure and magneto-structural correlation of copper(II) complexes.
- X-ray Crystallography: structure analysis using single crystal X-ray diffraction technique.
- Coordination Polymers (CPs)/Metal-Organic Frameworks (MOFs): design, synthesis and functional properties including catalysis, ion exchange, adsorption and separation, chemical sensing and magnetism

### 4. Selected Publications

- (1) J. Othong, J. Boonmak, S. Youngme, "Highly selective  $\text{Cr}_2\text{O}_7^{2-}$  removal in aqueous medium by using a flexible 2D metal-organic framework through single-crystal-to-single-crystal transformation" *J. Environ. Chem. Eng.*, 2019, **7** (2), 102998.
- (2) T. Wiwasuku, J. Boonmak, K. Siriwong, V. Ervithayasuporn, S. Youngme, "Highly sensitive and selective fluorescent sensor based on a multi-responsive ultrastable amino-

- functionalized Zn(II)-MOF for hazardous chemicals” *Sens Actuators B Chem.* , 2019, **284**, 403-413.
- (3) N. Hfidhi, I. bkhairia, D. Atoui, J. Boonmak, M. Nasri, R. Ben Salem, S. Youngme, H. Naïli, “Catalytic and biological valorization of a supramolecular mononuclear copper complex based 4-aminopyridine” *Appl Organomet Chem.*, 2019, **33** (4), 4793.
- (4) S. Tunsrichon, J. Boonmak, S. Youngme, “Ultrasonic-Assisted Synthesis of a Zn(II) Coordination Polymer in Aqueous Media and Its High-Performance Luminescent Sensing for 2,4,6-Trinitrophenol” *Cryst Growth Des.*, 2019, **19** (4), 2139-2148.
- (5) S. Buttha, S. Youngme, J. Wittayakun, S. Loiha, “Formation of iron active species on HZSM-5 catalysts by varying iron precursors for phenol hydroxylation” *MOL CATAL.*, 2018, **461**, 26-33.
- (6) T. Kamjornsupamitr, T. Sangthumchai, S. Youngme, S. Martwiset, “Proton conducting composite membranes from crosslinked poly(vinyl alcohol) and poly(styrene sulfonic acid)-functionalized silica nanoparticles” *Int. J. Hydrog. Energy*, 2018, **43** (24), 11190-11201.
- (7) M. Moeinian, K. Akhbari, J. Boonmak, S. Youngme, “Three-dimensional organometallic thallium(I) supramolecular polymer nanostructures synthesized with sonochemical process” *Ultrason Sonochem.*, 2018, **41**, 11-16.
- (8) J. Othong, J. Boonmak, J. Ha, S. Leelasubcharoen, S. Youngme, “Thermally Induced Single-Crystal-to-Single-Crystal Transformation and Heterogeneous Catalysts for Epoxidation Reaction of Co(II) Based Metal-Organic Frameworks Containing 1,4-Phenylenediacetic Acid” *Cryst Growth Des.*, 2017, **17** (4), 1824-1835
- (9) F. Klongdee, J. Boonmak, S. Youngme, “Anion-dependent self-assembly of copper coordination polymers based on pyrazole-3,5-dicarboxylate and 1,2di(4-pyridyl)ethylene” *Dalton Trans.*, 2017, **46** (14), 4806-4815.
- (10) K.C. Chanapattharapol, S. Krachumram, S. Youngme, “Study of CO<sub>2</sub> adsorption on iron oxide doped MCM-41” *Microporous Mesoporous Mater.*, 2017, **245**, 8-15.
- (11) N. Wongsu, K. Kanokmedhakul, J. Boonmak, S. Youngme, S. Kanokmedhakul, “Bicyclic lactones and racemic mixtures of dimeric styrylpyrones from the leaves of: *Milium velutina*” *RSC Adv.*, 2017, **7** (41), 25285-25297.
- (12) R. Sodkhomkhum, M. Masik, S. Watchasit, C. Suksai, J. Boonmak, S. Youngme, N. Wanichacheva, V. Ervithayasuporn, “Imidazolylmethylpyrene sensor for dual optical detection of explosive chemical: 2,4,6-Trinitrophenol” *Sens Actuat B Chem.* , 2017, **245**, 665-673.

- (13) V. Ervithayasuporn, K. Kwanplod, J. Boonmak, S. Youngme, P. Sangtrirutnugul, “Homogeneous and heterogeneous catalysts of organopalladium functionalized-polyhedral oligomeric silsesquioxanes for Suzuki–Miyaura reaction” *J. Catal.*, 2015, **332**, 62–69.
- (14) P. Suvanvapee, J. Boonmak, S. Youngme, “A Series of Cyanoacetato Copper(II) Coordination Polymers with Various *N,N'*-Ditopic Spacers: Structural Diversity, Supramolecular Robustness, and Magnetic Properties” *Cryst. Growth Des.*, 2015, **15**(8), 3804-3812.
- (15) N. Wannarit, N. Nassirinia, S. Amani, N. Masciocchi, S. Youngme, O. Roubeau, S.J. Teat, P. Gamez, “Drastic effect of lattice propionitrile molecules on the spin-transition temperature of a 2,2'-dipyridylamino/s-triazine-based iron(II) complex” *Inorg. Chem.*, 2014, **53**, 9827-9836.
- (16) A. Cheansirisomboon, J. Salinas-Uber, C. Massera, O. Roubeau, S. Youngme, P. Gamez, “One-pot multiple metal-organic framework formation: Concomitant generation of structural isomers or of drastically distinct materials ” *Eur. J. Inorg. Chem.*, 2014, 4385–4393.
- (17) A. Abhervé, J.M. Clemente-Juan, M. Clemente-León, E. Coronado, J. Boonmak, S. Youngme, “Tuning the nuclearity of iron(iii) polynuclear clusters by using tetradentate Schiff-base ligands” *New J Chem.*, 2014, **38**, 2105-2113.
- (18) P. Phuengphai, C. Massera, J. Reedijk, S. Youngme, P. Gamez, “Anion exchange in coordination-network materials” *Eur. J. Inorg. Chem.*, 2013, 4812-4822.
- (19) N. Wannarit, O. Roubeau, S. Youngme, and P. Gamez, “Subtlety of the spin-crossover phenomenon observed with dipyridylamino-substituted triazine ligands” *Eur. J. Inorg. Chem.*, 2013, (Cluster Issue), 730-737. **(Cover page)**
- (20) N. Wannarit, C. Pakawatchai, I. Mutikainen, R. Costa, I. de P. R. Moreira, F. Illas, and S. Youngme, “Hetero Triply-bridged Dinuclear Copper(II) Compounds with Ferromagnetic Coupling: A challenge for current density functional” *Phys. Chem. Chem. Phys.*, 2013, **15**, 1966-1975.
- (21) N. Wannarit, O. Roubeau, S. Youngme, S. J. Teat and P. Gamez. Influence of supramolecular bonding contacts on the spin crossover behaviour of iron(II) complexes from 2,2'-dipyridylamino/s-triazine ligands. *Dalton. Trans.*, 2013 **42**, 7120-7130.
- (22) A. Cheansirisomboon, C. Pakawatchai, S. Youngme, “2D-1D Structural Phase Transformation of Co(II) 3,5-Pyridinedicarboxylate Frameworks with Chromotrophism” *Dalton Trans.*, 2012, **41**, 10698.
- (23) N. Wannarit, K. Siriwong, N. Chaichit, S. Youngme, R. Costa, I.P.R. Moreira, F. Illas, “New series of triply-bridged dinuclear Cu(II) compounds: synthesis, crystal structure, magnetic properties and theoretical study” *Inorg. Chem.*, 2011, **50**(21), 10648–10659.

- (24) J. Boonmak, M. Nakano, N. Chaichit, C. Pakawatchai, S. Youngme, "Spin Canting and Metamagnetism in 2D and 3D Cobalt(II) Coordination Networks with Alternating Double End-On and Double End-to-End Azido Bridges" *Inorg. Chem.*, 2011, **50**, 7324-7333.
- (25) J. Boonmak, M. Nakano, S. Youngme, "Structural diversity and magnetic properties in 1D and 2D azido-bridged cobalt(II) complexes with 1,2-bis(2-pyridyl)ethylene" *Dalton Trans.*, 2011, **40**, 1254-1260.
- (26) Ramon Costa, Ibério de P.R. Moreira, Sujittra Youngme, Khatcharin Siritwong, Nanthawat Wannarit and Francesc Illas, "Toward the Design of Ferromagnetic Molecular Complexes: Magnetostructural Correlations in Ferromagnetic Triply Bridged Dinuclear Cu(II) Compounds Containing Carboxylato and Hydroxo Bridges" *Inorg. Chem.*, 2010, **49** (1), 285–294.
- (27) P. Phuengphai, S. Youngme, P. Gamez and J. Reedijk, "Catalytic properties of a series of coordination networks: cyanosilylation of aldehydes catalyzed by Zn(II)-4,4'-bpy-carboxylato complexes", *Dalton Trans.*, 2010, **39** (34), 7936-7942.
- (28) J. Boonmak, M. Nakano, N. Chaichit, C. Pakawatchai, and S. Youngme, "Water-induced reversible structural phase transformation with chromotropism in metal supramolecular frameworks containing aminopyrazine and sulfate anions", *Dalton Trans.*, 2010, **39**, 8161 – 8167.
- (29) C. Ramon, I. rio de P.R. Moreira, S. Youngme, K. Siritwong, N. Wannarit and F. Illas, "Toward the Design of Ferromagnetic Molecular Complexes: Magnetostructural Correlations in Ferromagnetic Triply Bridged Dinuclear Cu(II) Compounds Containing Carboxylato and Hydroxo Bridges" *Inorg. Chem.*, 2010, **49**, 285-294.
- (30) P. Phuengphai, S. Youngme, P. Kongsaree, C. Pakawatchai, N. Chaichit, S. J. Teat, P. Gamez and J. Reedijk, "Drastic steric effects from, respectively, a hydrogen, a methyl and an ethyl group on the coordination network of a zinc(II)-4,4'-bipyridine-carboxylato ternary system", *Cryst Eng Comm*, 2009, **11**, 1723-1732.
- (31) J. Boonmak, S. Youngme, N. Chaichit, G.A. van Albada, and J. Reedijk, "Series of copper(II) coordination polymers containing aminopyrazine and different carboxylato bridges: Syntheses, structures and magnetic properties", *Cryst. Growth Des.*, 2009, **9**, 3318-3326.

## 5. Prizes and Awards

- KKU Researcher Distinguished Achievement Award in 2005.
- CST Distinguished Chemist Award 2010 from The Chemical Society of Thailand (CST), under the patronage of Professor Dr. HRH Princess Chulabhorn Walailak

- KCU Excellent Researcher Award 2010: Gold Medal Researcher Award
- KCU Excellent Researcher Award 2011: Diamond Researcher Award
- Distinguished Research Award 2014 from The Thailand Research Fund
- Sarasin Honorable Researcher Award 2016 KCU
- TRF-OHEC-Clarivate Analytics Research Excellence Award 2017 from The Thailand Research Fund
- KCU Distinguished Alumni Award 2018 : Excellent Research Award