

# Curriculum Vitae

## Dr. Sarinthip Thanakkasaranee

Faculty of Agro-Industry, Chiang Mai University

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## Education

- 2020                      **Ph.D. (Packaging), Yonsei University, Republic of Korea**  
**Outstanding Foreign Student Scholarship, Doctoral Program**  
*Dissertation titled “Temperature-Dependent Permeation Composite Films: The Alternative Self-Venting Materials for Microwave Packaging Application”*
- 2012                      **M.S. (Packaging Technology), Kasetsart University, Thailand**  
*Thesis titled “Preparation and characterization of LLDPE Reinforced Nano Silica/LDPE/LLDPE Multilayer Film”*
- 2008                      **B.S. (Packaging Technology), Chiang Mai University, Thailand**  
*Research project titled “Application of Carboxymethylcellulose from Papaya Peel for Mango (Mangifera Indica L.) ‘Namdokmai’ Coating”*

## Experience

- March 2021–  
Present                      Division of Packaging technology, School of Agro-Industry, Faculty of Agro-Industry, Chiang Mai University, Thailand.  
Position: Lecturer
- March 2020 –  
February 2021                      Functional Packaging Materials Laboratory (FPML), Department of Packaging, College of Science and Technology, Yonsei University, Republic of Korea  
Position: Postdoctoral Research Fellow
- September 2015-  
February 2020                      Functional Packaging Materials Laboratory (FPML), Department of Packaging, College of Science and Technology, Yonsei University, Republic of Korea  
Position: Research Assistant
- November 2013 –  
December 2014                      Science and Technology Park (STeP), Chiang Mai University Department of Technology Business Development, Design Service Platform of Northern Science Park  
Position: Technical Support Analyst

March -June 2013	SML (Thailand) Co., Ltd., Bangkok, Thailand. Position: Product Development Executive
April 2008- October 2009	Print Master Co., Ltd., Samutprakarn, Thailand. Position: Research and Development Officer

#### Awards, Honors and Scholarships

2019	Excellent Oral Presentation Award in 7 <sup>th</sup> College of Science and Technology Academic Festival, Yonsei University, Republic of Korea. (December 4, 2019)
2019	Excellent Oral Presentation Award in 56 <sup>th</sup> Korea Packaging Society Conference, Jeju, Republic of Korea. (November 7-8, 2019)
2019	One of the top downloaded articles, published in <i>Packaging Technology and Science</i> , between January 2017 and December 2018.
2018	The Best Poster Award in 6 <sup>th</sup> Edition of Smart Materials & Structures Conference, Las Vegas, USA. (April 16-17, 2018)
2015-2017	Outstanding Foreign Student Scholarship for Doctoral Program, Department of Packaging, Yonsei University, Republic of Korea. (2015-2017)
2012	Honorary Award for Graduates with Outstanding Academic Outputs in Master's Degree, Academic Year 2011, Graduate School, Kasetsart University
2012	Honorable Mention for Master's Thesis in The Categories of Physical Science, Academic Year 2011, Graduate School, Kasetsart University.
2012	The Financial Support from Thailand Research Fund (TRF), TRF-Master Research Grants (MRG545S095) 2012
2012	The Financial Support for International Publication from the Graduate School, Kasetsart University, 2012
2007	The Financial Support from Thailand Research Fund (TRF), Research Projects for Undergraduates Students (RPUS)

#### Invited Speaker

*“Basic knowledge of packaging and selecting the appropriate packaging materials for products”* in “Packaging design and adding value by packaging under the BCG concept”. March 6-8, 2023. Via Zoom Meeting. Department of Agricultural Extension, Thailand. [March 7, 2023. 9.00 – 10.00 am]

*“Packaging Technology for Grains”* Post-harvest management system for grain workshop. **19-21 July 2023** at Postharvest Technology Innovation Center, Chiang Mai University, Thailand. [July 20, 2023, 10.45 am -12.15 pm]

<b>Taught</b>	- Intelligent and Active Packaging
	- Research Methodology in Packaging Technology
	- Research Project
	- Seminar

## Research Interest

Active packaging, Smart packaging, Thermo-responsive materials, Materials with temperature-dependent permeability, Polymer composites, Polymer blend, Bio-based materials, Phase change materials, Bio-medical materials

## Research Projects

- **Head of Project**
  - 1) Synthesis and characterization of magnesium oxide nanoparticles and their application in biodegradable active packaging materials incorporated with sericin for perishable foods (funded by The Office of the Permanent Secretary of the Ministry of Higher Education, Science, Research and Innovation, Thailand) (October 2022- September 2024)
  - 2) Development of bio-nanocomposite films based on chitosan, sericin, and synthesized magnesium oxide for active packaging application, (funded by Chiang Mai University) (July 2022-June 2023)
  - 3) Anti-fogging and Antimicrobial of Low-density Polyethylene Packaging Fabricated by Sparking Process for Fresh Produce, Technology to Industry Convergence (funded by Science and Technology Park (STeP), Chiang Mai University) (July 2022-December 2022)
  - 4) Antimicrobial bio-composite film based on carboxymethyl chitosan and calcium oxide (funded by The Murata Science Foundation (MSF)) (October 2021- September 2022)
  - 5) Biopolymer/metal oxide composites as antimicrobial material, (funded by Faculty of Agro-Industry, Chiang Mai University) (October 2021- September 2022)
- **Co-Research of Project**
  - 1) Preparation and characterization of nanocellulose from non-wood fibers and their applications, Fundamental Fund (FF) 2022 (funded by Thailand Science Research and Innovation (TSRI)) (October 2021- September 2022)
  - 2) Anti-viral, anti-bacterial and anti-fungal of bio-materials and their application in COVID-19, Fundamental Fund (FF) 2022 (funded by Thailand Science Research and Innovation (TSRI)) (October 2021- September 2022)
- **Research Assistant**
  - 1) Development of temperature-responsive smart materials with controllable gas and water vapor permeability, their processing and packaging applications (funded by National Research Foundation of Korea (NRF)) (April 2017-February 2020), Republic of Korea
  - 2) Development of high heat resistant PET composites and PET bottles (July 2019-December 2019), Republic of Korea
  - 3) Development of natural antimicrobial agent from coral powder (September 2018-December 2018), Republic of Korea.
  - 4) Development of Home Meal Replacement (HMR) food packaging with the suppressing function of the formation of ice crystals (June 2018-December 2018), Republic of Korea
  - 5) Development of the packaging technology with the indicator for the reliability of the foods (June 2017-December 2017), Republic of Korea

- 6) Multipurpose medical packaging system for vacuum, modified atmosphere packaging (MAP), and UV sterilization (October 2017-January 2018), Republic of Korea.
- 7) Antimicrobial packaging film for bread product (2017), Republic of Korea
- 8) Chitosan-silver nanocomposite coating (April 2016-November 2016), Republic of Korea

#### Peer Reviewer

- 1) Journal of Food Processing and Preservation
- 2) Saudi Journal of Biological Sciences
- 3) Chinese Journal of Polymer Science
- 4) Carbohydrate polymers
- 5) Packaging Technology and Science
- 6) Journal of Food Processing and Preservation (Hindawi)

#### Books

##### International Book Chapter

Rachtanapun, P., Rachtanapun, C., Jantrawut, P., **Thanakkasaranee, S.**, Kasi, G., Tantala, J., Panraksa, P. and Chaiwarit, T., 2023. Carboxymethyl Chitosan-Based Materials in Packaging, Food, Pharmaceutical, and Cosmetics. In *Multifaceted Carboxymethyl Chitosan Derivatives: Properties and Biomedical Applications* (pp. 139-203). Cham: Springer Nature Switzerland.

##### Research articles, Short communications, and Review article

##### International Publications

- 1) Kodsangma, A., Thajai, N., Punyodom, W., Worajittiphon, P., Jantrawut, P., Ruksiriwanich, W., Sommano, S.R., Sringarm, K., **Thanakkasaranee, S.**, Rachtanapun, P. and Jantanasakulwong, K., 2023. Mechanical properties and water resistance improvement of thermoplastic modified starch, carboxymethyl cellulose, and zinc oxide nanometal particles by reactive blending. *International Journal of Biological Macromolecules*, 253, p.126783.
- 2) Shin, H., **Thanakkasaranee, S.**, Kambiz, S. and Seo, J., 2023. Preparation and applicability of polylactic acid/polyethylene glycol/nanoclay composite films for smart steam release in microwave packaging. *Food Packaging and Shelf Life*, 40, p.101188.
- 3) Kiattipornpithak, K., Rachtanapun, P., **Thanakkasaranee, S.**, Jantrawut, P., Ruksiriwanich, W., Sommano, S.R., Leksawasdi, N., Kittikorn, T. and Jantanasakulwong, K., 2023. Bamboo Pulp Toughening Poly (Lactic Acid) Composite Using Reactive Epoxy Resin. *Polymers*, 15(18), p.3789.
- 4) Boonrasri, S., Thipchai, P., Sae-Oui, P., Thanakkasaranee, S., Jantanasakulwong, K. and Rachtanapun, P., 2023. Property Improvements of Silica-Filled Styrene Butadiene Rubber/Butadiene Rubber Blend Incorporated with Fatty-Acid-Containing Palm Oil. *Polymers*, 15(16), p.3429.
- 5) Sriamwang, C., Onsa, N.E., Sunanta, P., Sangta, J., Chanway, C.P., **Thanakkasaranee, S.** and Sommano, S.R., 2023. Role of Microbial Volatile Organic Compounds in Promoting Plant Growth and Disease Resistance in Horticultural Production. *Plant Signaling & Behavior*, p.2227440. [Q2, IF2021: 2.734]
- 6) Gopinath, K., Gnanasekar, S., Al-Ghanim, K.A., Nicoletti, M., Govindarajan, M., Arumugam, A., Balalakshmi, C. and **Thanakkasaranee, S.**, 2023. Fabrication of Neodymium (Nd), Cadmium (Cd) and Nd: Cd doped hybrid copper oxide nanocomposites: Evaluation of their antibacterial activity and cytotoxicity against

- human L132 cell line. *Ceramics International*. [In Press, Corrected Proof, Available online 28 June 2023] [Q1, IF2021: 5.2]
- 7) Kasi, G., **Thanakkasaranee, S.**, Seesuriyachan, P. and Rachtanapun, P., 2023. One-pot synthesis of gold nanoparticles using Pandanus amaryllifolius leaf extract and their antibacterial, antioxidant, anticancer, and ecotoxicity assessment. *Biocatalysis and Agricultural Biotechnology*, 50, p.102695. [Q1, IF2021: 4.259]
  - 8) Srikamwang, C., Onsa, N.E., Sunanta, P., Sangta, J., Chanway, C.P., Thanakkasaranee, S. and Sommano, S.R., 2023. Role of Microbial Volatile Organic Compounds in Promoting Plant Growth and Disease Resistance in Horticultural Production. *Plant Signaling & Behavior*, p.2227440. [Q1, IF2021: 2.734]
  - 9) Kanthiya, T., Thajai, N., Chaiyaso, T., Rachtanapun, P., **Thanakkasaranee, S.**, Kumar, A., Boonrasri, S., Kittikorn, T., Phimolsiripol, Y., Leksawasdi, N. and Tanadchangsang, N., 2023. Enhancement in mechanical and antimicrobial properties of epoxidized natural rubber via reactive blending with chlorhexidine gluconate. *Scientific Reports*, 13(1), p.9974. [Q1, IF2021: 4.996]
  - 10) Thipchai, P., Punyodom, W., Jantanasakulwong, K., **Thanakkasaranee, S.**, Hinmo, S., Pratinthong, K., Kasi, G. and Rachtanapun, P., 2023. Preparation and Characterization of Cellulose Nanocrystals from Bamboos and Their Application in Cassava Starch-Based Film. *Polymers*, 15(12), p.2622. [Q1, IF2022: 4.967]
  - 11) Thajai, N., Rachtanapun, P., **Thanakkasaranee, S.**, Chaiyaso, T., Phimolsiripol, Y., Leksawasdi, N., Sommano, S.R., Sringarm, K., Chaiwarit, T., Ruksiriwanich, W. and Jantrawut, P., 2023. Antimicrobial thermoplastic starch reactive blend with chlorhexidine gluconate and epoxy resin. *Carbohydrate Polymers*, 301, p.120328. [Q1, IF2021: 4.967, Percentile in Materials Science - Polymers and Plastics 98]
  - 12) **Thanakkasaranee, S.**, Kasi, G., Kadiravan, S., Arumugam, A., Al-Ghanim, K.A., Riaz, M.N. and Govindarajan, M., 2023. Synthesis of Tungsten Oxide Nanoflakes and Their Antibacterial and Photocatalytic Properties. *Fermentation*, 9(1), p.54. [Q1, IF2021: 5.123]
  - 13) Shin, H., **Thanakkasaranee, S.**, Sadeghi, K. and Seo, J., 2022. Preparation and characterization of ductile PLA/PEG blend films for eco-friendly flexible packaging application. *Food Packaging and Shelf Life*, 34, p.100966. [Q1, IF2021: 8.749, Percentile in Food Science & Technology 93.36]
  - 14) Jantanasakulwong, K.<sup>†</sup>, **Thanakkasaranee, S.<sup>†</sup>**, Seesuriyachan, P., Singjai, P., Saenjaiban, A., Photphroet, S., Pratinthong, K., Phimolsiripol, Y., Leksawasdi, N., Chaiyaso, T. and Sommano, S.R., 2022. Sparking Nano-Metals on a Surface of Polyethylene Terephthalate and Its Application: Anti-Coronavirus and Anti-Fogging Properties. *International Journal of Molecular Sciences*, 23(18), p.10541. {† Co- first authors} [Q1, IF2021: 6.208]
  - 15) Khamsaw, Pattarapol, Jiraporn Sangta, Pirawan Chaiwan, Pornchai Rachtanapun, Sasithorn Sirilun, Korawan Sringarm, **Sarinthip Thanakkasaranee**, and Sarana Rose Sommano. 2022. Bio-Circular Perspective of Citrus Fruit Loss Caused by Pathogens: Occurrences, Active Ingredient Recovery and Applications. *Horticulturae*, 8(8), p.748. [Q1, IF2021: 2.923]
  - 16) **Thanakkasaranee, S.**, Sadeghi, K. and Seo, J., 2022. Packaging materials and technologies for microwave applications: a review. *Critical Reviews in Food Science and Nutrition*, pp.1-20. [Q1, IF2021: 11.176, Percentile in Food Science and Technology category 97.55]
  - 17) Kanthiya, T., Kiattipornpithak, K., Thajai, N., Phimolsiripol, Y., Rachtanapun, P., **Thanakkasaranee, S.**, Leksawasdi, N., Tanadchangsang, N., Sawangrat, C., Wattanachai, P. and Jantanasakulwong, K., 2022. Modified Poly (Lactic Acid) Epoxy Resin Using Chitosan for Reactive Blending with Epoxidized Natural Rubber: Analysis of Annealing Time. *Polymers*, 14(6), p.1085. [Q1, IF2021: 4.967]
  - 18) Rachtanapun, P., **Thanakkasaranee, S.**, Auras, R.A., Chaiwong, N., Jantanasakulwong, K., Jantrawut, P., Phimolsiripol, Y., Seesuriyachan, P., Leksawasdi, N., Chaiyaso, T. and Somman, S.R., 2022. Morphology,

- Mechanical, and Water Barrier Properties of Carboxymethyl Rice Starch Films: Sodium Hydroxide Effect. *Molecules*, 27(2), p.331. [Q2, IF2021: 4.412]
- 19) Shin, H., Park, S., **Thanakkasaraanee, S.**, Sadeghi, K., Lee, Y., Tak, G. and Seo, J., 2021. Applicability of newly developed PET/bio-based polyester blends for hot-filling bottle. *Food Packaging and Shelf Life*, 30, p.100757. [Q1, IF2021: 6.429, Percentile in Food Science & Technology 93.36]
  - 20) Leksawasdi, N., Chaiyaso, T., Rachtanapun, P., **Thanakkasaraanee, S.**, Jantrawut, P., Ruksiriwanich, W., Seesuriyachan, P., Phimolsiripol, Y., Techapun, C., Sommano, S.R. and Ougizawa, T., 2021. Corn starch reactive blending with latex from natural rubber using Na<sup>+</sup> ions augmented carboxymethyl cellulose as a crosslinking agent. *Scientific Reports*, 11(1), pp.1-10. [Q1 IF2021: 4.379]
  - 21) **Thanakkasaraanee, Sarinthip**, and Jongchul Seo\*. "Tunable temperature- responsive permeable composite films using polyethylene glycol as a phase change material." *Food Packaging and Shelf Life* 28 (2021): 100683. [Q1, IF2021: 6.429, Percentile in Food Science & Technology 93.36] (Part of a Ph.D. dissertation)
  - 22) **Thanakkasaraanee, Sarinthip**, Kambiz Sadeghi, and Jongchul Seo\*. "Smart steam release of newly developed temperature-responsive nanocomposite films derived from phase change material." *Polymer* 219 (2021): 123543. [Q1, IF2021: 4.430] (Part of a Ph.D. dissertation)
  - 23) Kim, Dowan<sup>†</sup>, **Sarinthip Thanakkasaraanee<sup>†</sup>**, Kaeun Lee, Kambiz Sadeghi, and Jongchul Seo\*. "Smart packaging with temperature-dependent gas permeability maintains the quality of cherry tomatoes." *Food Bioscience* 41(2021):100997 {† Co- first authors} [Q2, IF2021: 4.240]
  - 24) Park, Kitae, Kambiz Sadeghi, **Sarinthip Thanakkasaraanee**, Ye-In Park, Junsoo Park, Ki-Ho Nam, Haksoo Han, and Jongchul Seo\*. "Effects of calcination temperature on morphological and crystallographic properties of oyster shell as biocidal agent." *International Journal of Applied Ceramic Technology* 18, no. 2(2021): 302-311. [Q2, IF2021: 1.968]
  - 25) Park, Sangyoon<sup>†</sup>, **Sarinthip Thanakkasaraanee<sup>†</sup>**, Hojun Shin<sup>†</sup>, Youngsoo Lee, Guman Tak, and Jongchul Seo. "PET/Bio-Based Terpolyester Blends with High Dimensional Thermal Stability." *Polymers* 13, no. 5 (2021): 728. {† Co-first authors} [Q1, IF2021: 4.329]
  - 26) Park, Sangyoon, **Sarinthip Thanakkasaraanee**, Hojun Shin, Kihyeon Ahn, Kambiz Sadeghi, Youngsoo Lee, Guman Tak, and Jongchul Seo. "Preparation and characterization of heat-resistant PET/bio-based polyester blends for hot-filled bottles." *Polymer Testing* 91 (2020): 106823. [Q1, IF2020: 3.275]
  - 27) Viswanathan, Karthika, Insoo Kim, Gopinath Kasi, Kambiz Sadeghi, **Sarinthip Thanakkasaraanee**, and Jongchul Seo\*. "Facile approach to enhance the antibacterial activity of ZnO nanoparticles." *Advances in Applied Ceramics* (2020): 1-9. [Q2, IF2020: 1.669]
  - 28) Kim, Insoo, Karthika Viswanathan, Gopinath Kasi, Kambiz Sadeghi, **Sarinthip Thanakkasaraanee**, and Jongchul Seo\*. "Preparation and characterization of positively surface charged zinc oxide nanoparticles against bacterial pathogens." *Microbial Pathogenesis* (2020): 104290. [Q2, IF2020: 2.914]
  - 29) **Thanakkasaraanee, Sarinthip<sup>†</sup>**, Kambiz Sadeghi<sup>†</sup>, I-Jong Lim, and Jongchul Seo\*. "Effects of incorporating

- calcined corals as natural antimicrobial agent into active packaging system for milk storage." *Materials Science and Engineering: C* (2020): 110781. {† Co-first authors} [Q1, IF2020: 5.880]
- 30) Sadeghi, Kambiz<sup>†</sup>, Sarinthip Thanakkasaranee<sup>†</sup>, I-Jong Lim, and Jongchul Seo\*. "Calcined marine coral powders as a novel ecofriendly antimicrobial agent." *Materials Science and Engineering: C* (2020): 110781. {† Co-first authors} [Q1, IF2020: 5.880]
- 31) Sadeghi, Kambiz, Gopinath Kasi, Phuntheera Ketsuk, Sarinthip Thanakkasaranee, Sher Bahadar Khan, and Jongchul Seo\*. "A polymeric chlorine dioxide self-releasing sheet to prolong postharvest life of cherry tomatoes." *Postharvest Biology and Technology* 161 (2020): 111040. [Q1, IF2020: 4.303]
- 32) Kim, Insoo, Karthika Viswanathan, Gopinath Kasi, Sarinthip Thanakkasaranee, Kambiz Sadeghi, and Jongchul Seo\*. "ZnO Nanostructures in Active Antibacterial Food Packaging: Preparation Methods, Antimicrobial Mechanisms, Safety Issues, Future Prospects, and Challenges." *Food Reviews International* (2020): 1-29. [Q1, IF2020: 4.113]
- 33) Kim, Insoo, Karthika Viswanathan, Gopinath Kasi, Kambiz Sadeghi, Sarinthip Thanakkasaranee, and Jongchul Seo\*. "Poly (lactic acid)/ZnO bionanocomposite films with positively charged ZnO as potential antimicrobial food packaging materials." *Polymers* 11, no. 9 (2019): 1427. [Q1, IF2019: 3.164]
- 34) Thanakkasaranee, Sarinthip, and Jongchul Seo\*. "Effect of halloysite nanotubes on shape stabilities of polyethylene glycol-based composite phase change materials." *International Journal of Heat and Mass Transfer* 132(2019): 154-161. [Q1, IF2019: 4.346] (Part of a Ph.D. dissertation)
- 35) Thanakkasaranee, Sarinthip, Dowan Kim, and Jongchul Seo\*. "Preparation and characterization of poly(ether-block-amide)/polyethylene glycol composite films with temperature-dependent permeation." *Polymers* 10, no. 2 (2018): 225. [Q1, IF2018: 2.935] (Part of a Ph.D. dissertation)
- 36) Thanakkasaranee, Sarinthip<sup>†</sup>, Dowan Kim<sup>†</sup>, and Jongchul Seo\*. "Preparation and characterization of polypropylene/sodium propionate (PP/SP) composite films for bread packaging application." *Packaging Technology and Science* 31, no. 4(2018): 221-231. {† Co-first authors} [Q2, IF2018: 1.808]
- 37) Kim, Dowan, Sarinthip Thanakkasaranee, Jongchul Seo\*, and S. B. Khan. "Effect of porous zeolite on temperature-dependent physical properties of polypropylene/octadecane (PP/OD) composite films." *eXPRESS Polymer Letters* 12, no. 7 (2018): 658-674. [Q1, IF2018: 3.064]
- 38) Pradittham, Arjaree, Supapen Trejitwattanaku, Titima Sramanee, Sarinthip Thanakkasaranee, Duangduen Atong, and Chiravoot Pechyen. "Preparation of LLDPE/Modified Silica Nanoparticle with Triethoxyvinylsilane Film for Microwaveable Packaging." *Advanced Materials Research*, 488 (2012): 1525-1529. [IF2012: 0.39]
- 39) Thanakkasaranee, Sarinthip, Arjaree Pradittham, Duangduen Atong, Chiravoot Pechyen. "Effect of nano-silica loading on barrier and mechanical properties of food packaging based LLDPE film". *Advanced Materials Research*, vol. 488, (2012): 919-922. [IF2012: 0.39] (Part of a Master thesis)

## Nation Publication

1. Rachtanapun, Pornchai, **Sarinthip Thanakkasane**e and Siraya Soonthornumpai (2008) “Application of Carboxymethylcellulose from Papaya Peel for Mango (*Mangifera Indica* L.) ‘Namdokmai’ Coating”, *Agricultural Science Journal*, 39 (3) (suppl.) 74-82.

## International conferences

### Oral presentations

- 1) **Thanakkasane**e, **Sarinthip**. “A novel temperature responsive nanocomposite film derived from phase change material as a smart steam-releasing material”. Virtual Congress on Materials Science & Engineering, MATERIALS INFO 2020. (November 9-10, 2020)
- 2) **Thanakkasane**e, **Sarinthip**. “Effect of Nano-Silica Loading on Barrier and Mechanical Properties of Food Packaging Based LLDPE Film”. 2012 International Conference on Key Engineering Materials (ICKEM 2012), Singapore. (February 26 – 28, 2012)
- 3) **Thanakkasane**e, **Sarinthip**. “Features and Benefits of LLDPE-Modified Nanosilica/LDPE/LLDPE Film: Microwavable Packaging”. The 2<sup>nd</sup> International Symposium on Hybrid Materials and Processing (HyMap 2011) Busan, Republic of Korea. (October 27 – 29, 2011)

### Poster presentations

- 1) **Thanakkasane**e, **Sarinthip**, Kambiz Sadeghi, Chaeyun Huh, Jongchul Seo, “A novel steam self-venting material for microwave application” The Next Generation Smart Materials workshop. ACS Division of Polymer Chemistry. Savannah, USA. (December 15 – 18, 2019)
- 2) Sadeghi, Kambiz, Gopinath Kasi, Phuntheera Ketsuk, **Sarinthip Thanakkasane**e, Chaeyun Huh, Jongchul Seo, “A Novel Controlled ClO<sub>2</sub> Self-Release Sheet to Inactivate Microbial Growth” The Next Generation Smart Materials workshop. ACS Division of Polymer Chemistry. Savannah, USA. (December 15 – 18, 2019)
- 3) **Thanakkasane**e, **Sarinthip**, Kambiz Sadeghi, Sangyoon Park, I-Jong Lim, Jongchul Seo, “Calcined marine coral powders as a novel ecofriendly antimicrobial agent”, 2019 KoSFA Meeting, 51<sup>st</sup> KoSFA International Symposium and Annual Meeting, Gwangju, Republic of Korea. (May 23 – 25, 2019)
- 4) **Thanakkasane**e, **Sarinthip**, Chaeyun Huh, Jongchul Seo, ‘Effect of halloysite nanotubes on shape stabilities of polyethylene glycol-based composite phase change materials, ACS Spring 2019 National Meeting & Expo Chemistry for New Frontiers, Orlando, USA. (31 March – April 5, 2019)
- 5) Baek, Seunghye, **Sarinthip Thanakkasane**e, Chaeyun Huh, Min Kwon, Daehong Min, Jongchul Seo, “Freshness indicator for monitoring changes in quality of packaged food products during storage”, ACS Spring 2019 National Meeting & Expo Chemistry for New Frontiers, Orlando, USA. (31 March – April 5, 2019)
- 6) **Thanakkasane**e, **Sarinthip**, Jongchul Seo, “Preparation and characterization of poly (ether-block-amide)/polyethylene glycol composite films for packaging application”, 6<sup>th</sup> International Conference on Smart Materials & Structures 2018, Theme: Rise of a smart Materials and Structures era, Las Vegas, USA. (April 16 – 17, 2018)



## Nation conferences

### Oral presentations

1. **Thanakkasaraanee, Sarinthip**. Effect of polyethylene glycol content on temperature-dependent gas permeation composite films. 56<sup>th</sup> Korea Packaging Society Conference, Korea Society of Packaging and Science and Technology, Jeju, Republic of Korea. (November 7-8, 2019)
2. **Thanakkasaraanee, Sarinthip**. “The Temperature-Dependent Gas Permeation Composite Films”. 7<sup>th</sup> *College of Science and Technology, Academic Festival*, Yonsei University Mirae Campus, Wonju, Republic of Korea. (December 4, 2019)

### Poster presentations

1. Park, Kitae, Kambiz Sadeghi, **Sarinthip Thanakkasaraanee**, Jongchul Seo, “A biocompatible antimicrobial agent derived from calcined oyster shell wastes”, 56<sup>th</sup> Korea Packaging Society Conference, Korea Society of Packaging and Science and Technology, Jeju, Republic of Korea. (November 7 – 8, 2019)
2. **Thanakkasaraanee, Sarinthip**, Kambiz Sadeghi, Sangyoon Park/Jong Lim, Jongchul Seo, “Calcined marine coral powders as a novel ecofriendly antimicrobial agent”, 2019 KoSFAM Meeting, 51<sup>st</sup> KoSFA International Symposium and Annual Meeting, Gwangju, Republic of Korea. (May 23 – 25, 2019)
3. Sadeghi, Kambiz, **Sarinthip Thanakkasaraanee**, Jongchul Seo, “Effects of incorporating calcined corals as natural antimicrobial agent into active packaging system for milk storage”, 55<sup>th</sup> Korea Society of Packaging and Science and Technology: Packaging Future Leading and Application to Industry, Seoul, Republic of Korea. (April 17, 2019)
4. Maruthupandy Muthuchamy, **Sarinthip Thanakkasaraanee**, Jongchul Seo, “Allyl isothiocyanate encapsulated halloysite covered with polyacrylate for potential antibacterial effect against food spoilage bacteria”, The Polymer Society of Korea (PSK) 2018 Annual Spring Meeting, Daejeon, Republic of Korea. (April 5, 2018)

### Industrial Research Program Undergraduate Student (IRPUS)

5. Thanakkasaraanee, Sarinthip and Siraya Soonthorn-ampai “Application of Carboxymethylcellulose from Papaya Peel for Mango ‘Namdokmai Coating’ The 6<sup>th</sup> *Exhibition of Technology Development for bachelor’s degree TRF Scholarships*, IRPUS, Bangkok, Thailand. (March 28-30, 2008)

## Teaching Experience

- **Lecturer Representative**, the Undergraduate Course “**Food Packaging**” in the titled “*Plastic Packaging*” Mahidol University International Collage, Thailand (June 24<sup>th</sup>, 2011).
- **Teaching Assistant**, Undergraduate Course “**Packaging Technology Systems**”, Department of Packaging and Materials Technology Faculty of Agro-Industry, Kasetsart University (November 2010 - February 2011).

## Student Internship

March –April 2007

**Print Master Co., Ltd. Samutprakarn, Thailand**  
Student Internship Program at Division of Production

## Training Courses

- **Identity Design for Lanna's OTOP**, Seminar & Workshop at TCDC Chiang Mai, Thailand, August 9<sup>th</sup>, 2014, by Department of Product Design, Silpakorn University and Science and Technology Park, Chiang Mai University
- **International Design Workshop 2014** at Chiang Mai University in Thailand, March 21<sup>st</sup>- 23<sup>rd</sup>, 2014 By Department of Industrial Engineering, Chiang Mai University, Thailand and College of Design and Manufacturing Technology, Muroran Institute of Technology, Department of Media Architecture, Future University Hakodate, Japan
- **Safety Officer Training in workplace for Supervisor**, March 19<sup>th</sup>, 2009 (12 hours) By Pintong Group Company Limited (Print Master Co., Ltd. Samutprakarn, Thailand)