

RESEARCHER PROFILE

Name Preeyaporn
Last name Chaiyasat
Academic Position Associate Professor
Faculty Science and Technology
Major Polymer Science
Email p_chaiyasat@mail.rmutt.ac.th



Research Interest

- Preparation of polymer and biopolymer microcapsule and microspheres
- Radical polymerization in aqueous dispersed system

Education	From..to...	University Name	Country
Doctor (Ph.D. Materials Chemistry and Engineering)	2005-2008	Kobe University	Japan
Master (M.Sc. Chemistry)	1997-2001	Chiang Mai University	Thailand
Bachelor (B.Sc. Chemistry)	1993-1997	Chiang Mai University	Thailand

International Publications

(Only published within the last five (5) years in international journals or book chapters)

- [1] S. Jantang and **P. Chaiyasat***, High Performance Poly(methyl methacrylate-acrylic acid-divinylbenzene) Microcapsule Encapsulated Heat Storage Material for Thermoregulating Textiles, *Fiber. Polym.*, **19** (10) (2018) 2039-2048.
- [2] W. Tangsongcharoen, P. Punyamoonwongsa, **P. Chaiyasat***, High performance biocompatible cellulose-based microcapsule encapsulating gallic acid prepared by inverse microsuspension polymerization, *Polym. Int.*, **68**(4) (2019) 714-723
- [3] N. Srisawang, A. Chaiyasat, P. Ngerchuklin and **P. Chaiyasat***, Novel reusable pH-responsive photocatalyst polymeric microcapsules for dye treatment, *Int. J. Energy Res.*, **45** (2021) 7535–7548. (**Scopus (2020): Q1 Nuclear Energy and Engineering**) (**IF (2020): 5.164; Q1**)
- [4] Omsinsombon, J., Chaiyasat, A., Busabok, C., & **Chaiyasat, P.*** (2021). A novel iron aluminate composite polymer particle for high- efficiency self- coating solar heat reflection. *Sol. Energy Mater Sol. Cells.* **230** (2021) 111248. (**IF (2020): 7.267; Scopus: Q1**)
- [5] Prateepmaneerak, N., Chaiyasat, A., Kaewpa, D., **Chaiyasat, P.***, Innovative bifunctional heat storage nanocapsules containing polymerizable surfactant for antimicrobial thermoregulating clothes, *Colloids Surf. A*, **2022**, **653**, 129954 (**IF (2021): 5.518; Scopus: Q1**)

Book/ Textbooks (Both Thai and International publications)

-

Research funds (Within the last five (5) years)

2022

- [1] Development of heat reflective coating solution using polymer hybrid particles for temperature control in greenhouse
- [2] Development of bio-based polymer capsules encapsulating active compounds by polymerization in dispersed systems

2021

- [3] Development of hydrophilic polymer for medical device coating
- [4] Enhancement of Moringa oil utilization in cosmetic products by microencapsulation technique

2020

- [5] Innovative bifunctional spray-coated surface for perfume and antimicrobial fabrics