



Lecturer / Associate Professor in Physical Chemistry

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Education

2000 B.Sc. (Chemical Engineering)
Chulalongkorn University

2003 M.Sc. (Chemistry) Chiang Mai
University

2004 LL.B. (Law) Sukhothai Thammathirat
Open University

2012 Ph.D. (Chemistry) University of
Wollongong (NSW, Australia)

Area of Expertise

- Colloid chemistry
- Graphene
- Cosmetics and personal care products
- Nanocarriers
- Materials chemistry
- Metal nanoparticles
- Polymer and mechanical properties
- Electrophoretic deposition (EPD)
- Innovative chemistry

Languages

Thai, English

Experience

2000 Lecturer — Rajamangala University of Technology Krungthep

2000-2001 Engineer — Thai Union Paper Public Company Limited

2002 Guest Lecturer — Chiangmai Rajabhat University

2003-2008 Lecturer — Department of Chemistry, School of Science, University of Phayao

2008-2011 PhD Candidates — University of Wollongong Intelligent Polymer Research
Institute (IPRI)

2013 Assistant Professor — Department of Chemistry, School of Science, University of
Phayao

2018 Associate Professor — Department of Chemistry, School of Science, University of
Phayao

Publications

1. Chartarrayawadee, W., et al. (2012). Novel composite graphene/platinum electro-catalytic electrodes prepared by electrophoretic deposition from colloidal solutions. *Electrochimica Acta*. 60: 213-223.
2. Chartarrayawadee, W., (2013). Facile synthesis of reduced graphene oxide/MWNTs nanocomposite supercapacitor materials tested as electrophoretically deposited films on glassy carbon electrodes. *Journal of Applied Electrochemistry*. 43(9): 865-877.
3. Chartarrayawadee, W., et al. (2013). Fabrication of graphene electrodes by electrophoretic deposition and their synergistic effects with PEDOT and platinum. *Chiang Mai Journal of Science*. 40(4): 750-762.
4. Chartarrayawadee, W., et al. (2017). Fabrication of poly(lactic acid)/graphene oxide/stearic acid composites with improved tensile strength. *Polymer Composites*. 38(10): 2272-2282.
5. Chartarrayawadee, W., et al. (2018). The role of stearic acid for silver nanoparticle formation on graphene and its composite with poly(lactic acid). *Polymer Bulletin*. 75: 3171-3187.
6. Chartarrayawadee, W., et al. (2018). Green synthesis and stabilization of earthworm-like gold nanostructure and quasi-spherical shape using *Caesalpinia sappan* Linn. extract. *Green Processing and Synthesis*. 7(5): 424-432.
7. Chartarrayawadee, W., et al. (2020) Green Synthesis and Stabilization of Silver Nanoparticles using *Lysimachia foenum-graecum* Hance Extract and their Antibacterial Activity. *Green Processing and Synthesis*. 9: 107-118.
8. Chartarrayawadee, W., et al. PLA-Cellulosic fiber biocomposites: improving mechanical properties without chemical treatment of the fibers. (manuscript in preparation)
9. Khamai, P., Chiming, K., Pooncharoen, K., Chartarrayawadee, W. (2019) Thermostable serine protease inhibitor from Death cap (*Amanita phalloides*). *Journal of Associated Medical Sciences*. 52(3), 158-162.
10. Khamai, P., Ngandee, P., Chimong K., Srimora R., Siriwechviriyi P., Chartarrayawadee, W., Pooncharoen, K., (2020) A simple method for isolation of serine protease inhibitor from Siamese land snail *Cryptozона* (*Cryptozона siamensis*)