

## RESEARCHER PROFILE

Name .....Dr.Chakkaphan.....

Last name ..... Wattanawikkam.....

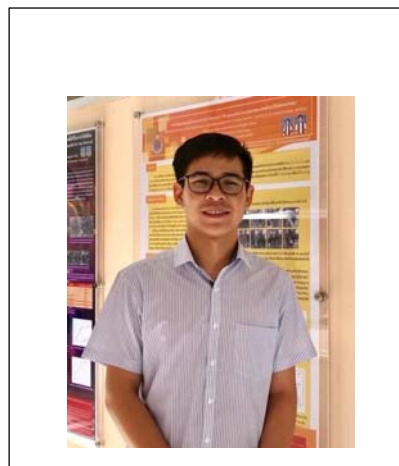
Academic Position .....-.....

Faculty .....Science and Technology.....

Major .....Physics.....

Research interest .....Nanomaterials, Nanotechnology,  
Photocatalyst, piezoelectric materials.....

E-mail .....chakkaphan\_w@rmutt.ac.th.....



Education	From ... To ...	University name	Country
Doctor	2017	King Mongkut's Institute of Technology Ladkrabang (KMUTL)	Thailand
Master	2012	Naresuan University	Thailand
Bachelor	2009	Naresuan University	Thailand

### International Publications

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

- [1] T. Wechprasit, A. Bootchanont, W. Sailuam, **C. Wattanawikkam**, T. Kansaard, T. Noinonmueng, W. Mekprasart, P. Chirawatkul, C.K. Jayasankar, W. Pecharapa, K. Boonyarattanakalin. (2022), Structural and photocatalytic properties and X-ray absorption spectroscopic study of BiVO<sub>4</sub> nanoparticles incorporated with Fe synthesized by sonochemical method. **Radiation Physics and Chemistry**, vol. 201, article no. 110480.
- [2] A. Bootchanont, **C. Wattanawikkam**, P. Porjai, W. Sailuam, W. Busayaporn, C. Saiyasombat, P. Kidkhunthod, J. Borsup, P. Songsiriritthigul, A. Jiamprasertboon, T. Lertvanithphol, M. Horprathum, P. Pengsri, T. Saisopa. (2022), Characterization of structural orientation and optical properties of Al and Cr in rubies. **Radiation Physics and Chemistry**, vol. 199, article no. 110315.
- [3] W. Seelarat, S. Sangwan, T. Panklai, N. Chaosuan, A. Bootchanont, C. Wattanawikkam, A. Subcharoen, N. Subcharoen, N. Chanchula, D. Boonyawan and P. Porjai. (2022). Enhanced fruiting body production and bioactive phytochemicals from white *Cordyceps militaris* by blending *Cordyceps militaris* and using cold plasma jet. Research Square. DOI:
- [4] A. Bootchanont, P. Porjai, R. Noonuruk, **C. Wattanawikkam\***, S. Pavasupree, W. Klysuban, T. Wechprasit, A. Maniwong, W. Pecharapa. (2022), Piezoelectric enhanced photocatalytic properties of PVDF–ZnO/Cu nanofibers prepared by electrospinning technique. **Polymer-Plastics Technology and Materials**, vol 61, pp.1924-1932.
- [5] **C. Wattanawikkam**, A. Bootchanont, P. Porjai, C. Jetjamnong, R. Kowong, T. Lertvanithphol, C. Chananonawathorn, P. Chirawatkul, N. Chanlek, H. Nakajima, P. Songsiriritthigul, N. Kiama, W. Nareejun, P. Tomkham, C. Ponchio, S. Rahong, A. Kluamchuen and M. Horprathum. (2022), Phase evolution in annealed Ni-doped WO<sub>3</sub>

nanorod films prepared via a glancing angle deposition technique for enhanced photoelectrochemical performance. **Applied Surface Science**, vol. 584, article no. 152581.

**Book/ Textbooks (Both Thai and International publications)**

- [1] .....
- [2] .....
- [3] .....

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

- 2022 Development of nanocomposite films of polydimethylsilxane and nanocellulose from agricultural materials for use as energy harvesting materials; from Fundamental Fund (FF-65)
- 2021 Local structure, piezoelectric properties and photocatalytic activity analysis of multifunction nanomaterials BiFeO<sub>3</sub> doped with Zn, Mn, Cu and Ti , from Research Grant for New Scholar
- 2020 .....
- 2019 .....
- 2018 .....