

Pagasukon Mekrattanachai

Ph.D.



Workplace

School of Chemistry, Faculty of Science,
University of Phayao.

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Languages

Thai
English

Current Position

Lecturer of Chemistry

Skill Highlights

Nanocatalyst for organic reaction, nanomaterial for organic adsorption, VOCs oxidation and organic chemical degradation via photocatalysis

Experience

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| 2009 (July-September) | Exchange Student at Kyushu Institute of Technology, Japan. |
| 2010-2012 | Research assistant, National Metal and Materials Technology Center (MTEC), National Science and Technology Development Agency (NSTDA). |
| 2012-present | Lecturer at School of Chemistry, University of Phayao, Phayao, Thailand |

Education

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| 2003-2006 | Bachelor Degree: Department of chemistry, Faculty of Science, Chulalongkorn University, Thailand. |
| 2007-2010 | Master Degree: Department of chemistry, Faculty of Science, Chulalongkorn University, Thailand. |
| 2016-2019 | Doctor of Philosophy, Institute of Chemistry, University of Chinese Academy of Science, China. |

Publications

1. **P. Mekrattanachai**, J. Liu, Z. Li, C. Cao*, W. Song*, Extremely low loading of Ru species on hydroxyapatite as an effective heterogeneous catalyst for olefin epoxidation. *Chemical Communication*, **2018**, 54, 1433-1436.
2. **P. Mekrattanachai**, C. Cao*, Z. Li, H. Li, W. Song*, Cobalt immobilized on hydroxyapatite as a low cost and highly effective heterogeneous catalyst for alkenes epoxidation under mild conditions. *RSC Advances*, **2018**, 8, 37303-37306.
3. **P. Mekrattanachai***, L. Zhu, N. Setthaya, C. Chindawong, W. Song*, The Highly Effective Cobalt Based Metal–Organic Frameworks Catalyst for One Pot Oxidative Esterification Under Mild Conditions. *Catalysis Letters*, **2021**, <https://doi.org/10.1007/s10562-021-03754-x>.
4. C. Chindawong, N. Setthaya, **P. Mekrattanachai**, N. Damrongwiriyanupap, K. Pimraksa, D. Johannsmann, Effect of adding carboxymethyl cellulose, zeolite and microcrystalline cellulose on the optical and mechanical properties of latex composite films, *IOP Conference Series: Materials Science and Engineering*, (accepted). (SCOPUS database)

Research work in conferences, proceeding

1. Supattra Kemleg, Kanchana Keidphae, **Pagasukon Mekrattanachai***, Esterification of stearic acid and methanol on acid activated heterogeneous catalyst. Proceedings The 7th National Science Research Conference. 30-31 March 2015. Naresuan University, (CH-O-003).
2. Patiyani Jitludda, Danupon Kasirak, **Pagasukon Mekrattanachai***, The synthesis of TiO₂ doped on montmorillonite and gibbsite as heterogeneous catalysts for preparation of azo dye compound. The 7th National Science Research Conference. 30-31 March 2015. Naresuan University, (CH-O-007).
3. Paporn Langmee, Suwimon Kongseang, **Pagasukon Mekrattanachai***, The synthesis of TiO₂ doped on diatomite and gibbsite as heterogeneous catalysts for synthesis of azo dye compound. The 7th National Science Research Conference. 30-31 March 2015. Naresuan University, (CH-P-039).