



Assoc. Prof. Dr. WEERADEJ MEEINKUIRT (Ph.D.)

Experience

2022-Present Program Director (M.Sc. Agro-Environmental Technology)
at Mahidol University Nakhonsawan Campus

2012-Present Lecturer at Mahidol University Nakhonsawan Campus

Publication

Sricoth T, **Meeinkuirt W**, Pichtel J, Taeprayoon P, Saengwilai P (2018). Synergistic phytoremediation of wastewater by two aquatic plants (*Typha angustifolia* and *Eichhornia crassipes*) and potential as biomass fuel. *Environmental Science and Pollution Research* 25(6): 5344–5368 (IF = 2.741, h index = 69, Q1, corresponding author)

Sricoth T, **Meeinkuirt W**, Saengwilai P, Pichtel J, Taeprayoon P (2018). Aquatic plants for phytostabilization of cadmium and zinc in hydroponic experiments. *Environmental Science and Pollution Research* 25(15): 14964–14976. (IF = 2.741, h index = 69, Q1, corresponding author)

Kaewtubtim P, **Meeinkuirt W**, Seepom S, Pichtel J (2018). Phytomanagement of radionuclides and heavy metals in mangrove sediments of Pattani Bay, Thailand using *Avicennia marina* and *Pluchea indica*. *Marine Pollution Bulletin* 127: 320–333. (IF = 3.146, h index = 128, Q1, corresponding author)

Meeinkuirt W, Phusantisampan T, Saengwilai P (2019). Root system architecture influencing cadmium accumulation in rice (*Oryza sativa* L.). *International Journal of Phytoremediation* 21(1): 19–26 (IF = 1.298, h index = 24, Q1, first author)

Thongchai A, **Meeinkuirt W**, Taeprayoon P, Pichtel J (2019). Soil amendments for cadmium phytostabilization by five marigold cultivars. *Environmental Science and Pollution Research* 26(9): 8737–8747 (IF = 2.741, h index = 69, Q1, corresponding author)

Seang-On L, **Meeinkuirt W**, Saengwilai P, Saminpanya S, Koedrith K (2019) Alleviation of cadmium stress in thai rice cultivar (PSL2) by inoculation of indigenous cadmium-resistant microbial consortia. *Applied Ecology and Environmental Research* 17(6):14679 – 14697 (IF = 0.712, h index = 38, Q3, co-author)

Ebrahimbabaie P, **Meeinkuirt W**, Pichtel J (2020) Phytoremediation of engineered nanoparticles using aquatic plants: Mechanisms and practical feasibility. *Journal of environmental sciences* 93: 151–163 (IF=4.302, h index = 90, Q1, co-author)

Saengwilai P, **Meeinkuirt W**, Phusantisampan T, Pichtel J (2020). Immobilization of cadmium in contaminated soil using organic amendments and its effects on rice growth performance. *Exposure and Health* 2:295–306 (IF=4.762, h index = 18, Q1, corresponding author)

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EDUCATION

2012 : Doctor of Philosophy
(Biology)
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2008 : Master of Science
(Ecology)
Prince of Songkla University

1999 : Bachelor of Science
(Fisheries Science)
King Mongkut's Institute of
Technology Ladkrabang

EXPERTISE

- Phytoremediation
- Biofertilization
- Bioindication of potentially toxic elements



Publication

Woraharn S, **Meeinkuirt W**, Phusantisampan T, Avakul P (2021). Potential of ornamental monocot plants for rhizofiltration of cadmium and zinc in hydroponic systems. *Environmental Science and Pollution Research* 28:35157–35170 (IF=5.190, h index = 154, Q1, corresponding author)

Woraharn S, **Meeinkuirt W**, Phusantisampan T, Chayapan P (2021). Rhizofiltration of cadmium and zinc in hydroponic systems. *Water Air and Soil Pollution* 232(5):204. <https://doi.org/10.1007/s11270-021-051156-6> (IF=2.984, h index = 127, Q2, corresponding author)

Saengwilai P, **Meeinkuirt W** (2021) Cadmium (Cd) and zinc (Zn) accumulation by Thai rice varieties and health risk assessment in a Cd-Zn co-contaminated paddy field: Effect of soil amendments. *Environmental Geochemistry and Health* 43:3659–3674 (IF=2.984, h index = 84, Q1, corresponding author)

Printarakul N, **Meeinkuirt W** (2021) Heavy Metal accumulation and copper localization in *Scopelophila cataractae* in Thailand. *Bulletin of Environmental Contamination and Toxicology* 107(3):530 – 536 (IF=2.807, h index = 80, Q2, corresponding author)

Thongchai A, **Meeinkuirt W**, Taeprayoon P, Chelong I-A (2021) Effects of soil amendments on leaf anatomical characteristics of marigolds cultivated in cadmium-spiked soils. *Scientific Reports* 11(1):15909. <https://doi.org/10.1038/s41598-021-95467-9> (IF=4.997, h index = 282, Q1, corresponding author)

Kubola J, Chumroenphat T, Pichtel J, **Meeinkuirt W** (2022) Effects of soil amendments on metal uptake, antioxidant activities and production of bioactive compounds by sunflower sprouts. *Sains Malaysiana* 51(2):495–505 (IF=1.009, h index = 39, Q2, corresponding author)

Intasit R, Khunrae P, **Meeinkuirt W**, Soontorngun N (2022) Fungal pretreatments of Napier grass and sugarcane leaves for high recovery of lignocellulosic enzymes and methane production. *Industrial Crops and Products* 180:114706. <https://doi.org/10.1016/j.indcrop.2022.114706> (IF=6.449, h index = 158, Q1, co-author)

Printarakul N, Adulkittichai K, **Meeinkuirt W** (2022) Effects of copper accumulation on growth and development of *Scopelophila cataractae* grown in vitro. *Ecotoxicology and Environmental Safety* 245:114127. <https://doi.org/10.1016/j.ecoenv.2022.114127> (IF=7.129, h index = 161, Q1, corresponding author)

Printarakul N, **Meeinkuirt W** (2022) The bryophyte community as bioindicator of heavy metals in a waterfall outflow. *Scientific Reports* 12(1):6942. <https://doi.org/10.1038/s41598-022-10980-9> (IF=4.997, h index = 282, Q1, corresponding author)

Taeprayoon P, Homyog K, **Meeinkuirt W** (2022) Organic amendment additions to cadmium-contaminated soils for phytostabilization of three bioenergy crops. *Scientific Reports* 12(1):13070. <https://doi.org/10.1038/s41598-022-17385-8> (IF=4.997, h index = 282, Q1, Essentially Intellectual Contributor)

Taeprayoon P, Printarakul, N, Somtrakoon, K, Avakul P, **Meeinkuirt W** (2023) Potentially toxic element accumulation of bryophyte taxa in contaminated soils at Tak Province, Thailand. *Ecological Indicators* 147:109971. <https://doi.org/10.1016/j.ecolind.2023.109971> (IF=6.900, h index = 162, Q1, corresponding author)

Moophayak K, Taeprayoon P, Pichtel J, Premmanee S, Phooseekaew C, Thinnok C, Avakul P, **Meeinkuirt W** (2024) Necrophagous flies as bioindicators in Cd and Zn co-contaminated areas of Tak Province, Thailand. *Ecotoxicology and Environmental Safety* 269:115800. <https://doi.org/10.1016/j.ecoenv.2023.115800> (IF=6.2, h index = 197, Q1, corresponding author)

Chunwichit S, Phusantisampan T, Thongchai A, Taeprayoon P, Pechampai N, Kubola J, Pichtel J, **Meeinkuirt W** (2024) Influence of soil amendments on phytostabilization, localization and distribution of zinc and cadmium by marigold varieties. *Science of the Total Environment* 919:170791. <https://doi.org/10.1016/j.scitotenv.2024.170791> (IF=8.2, h index = 399, Q1, corresponding author)



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Publication

Meeinkuirt W, Phusantisampan T, Kubola J, Chumroenphat T, Pichtel J (2024) Phytomanagement of cadmium using *Tagetes erecta* in greenhouse and field conditions. *Journal of Hazardous Materials Advances* 16:100481 (IF=5.5, h index = 30, Q1, first author and corresponding author)

Taeprayoon P, Pongphontong K, Somtrakoon, K, Phusantisampan T, **Meeinkuirt W** (2024) Synergistic effects of zinc and cadmium on phytoremediation potential of Christmas moss (*Vesicularia montagnei*). *Scientific Reports* 14(1):17754. <https://doi.org/10.1016/j.ecolind.2023.109971> (IF=3.8, h index = 347, Q1, corresponding author)

Chunwichit S, Phusantisampan T, Thongchai A, Taeprayoon P, Avakul P, Kubola J, Pichtel J, **Meeinkuirt W** (2025) Role of soil amendments on phytoremediation potential of marigolds on cadmium and zinc co-contaminated soil. *Archives of Agronomy and Soil Science* (Accepted) (IF=2.3, h index = 63, Q1, corresponding author)



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