

Ing. Hynek Roubík, Ph.D.

Selected publications:

- I. **Roubík, H.,** Mazancová, J., Banout, J., Verner, V., 2016. Addressing problems at small-scale biogas plants: a case study from central Vietnam. **Journal of Cleaner Production** 112(4), 2784-2792. <https://doi.org/10.1016/j.jclepro.2015.09.114>
- II. **Roubík H.,** Mazancová J., Phung L.D., Banout J., 2018. Current approach to manure management for small-scale Southeast Asian farmers - Using Vietnamese biogas and non-biogas farms as an example. **Renewable Energy** 115(C), 362-370. <https://doi.org/10.1016/j.renene.2017.08.068>
- III. **Roubík, H.,** Mazancová, J., Phung, L.D., Dung, D.V., Banout, J., 2018. Biogas Quality across Small-Scale Biogas Plants: A Case of Central Vietnam. **Energies** 11(7). <https://doi.org/10.3390/en11071794>
- IV. **Roubík, H.,** Mazancová, J., 2019. Small-scale biogas plants in central Vietnam and biogas appliances with a focus on a flue gas analysis of biogas cook stoves. **Renewable Energy** 131, 1138-1145. <https://doi.org/10.1016/j.renene.2018.08.054>
- V. **Roubík, H.,** Mazancová, J., Rydval, J., Kvasnička, R., 2020. Uncovering the dynamic complexity of the development of small-scale biogas technology through causal loops. **Renewable Energy** 149, 235-243. <https://doi.org/10.1016/j.renene.2019.12.019>
- VI. **Roubík, H.,** Mazancová, J., 2020. Suitability of small-scale biogas system for the rural areas in northern Sumatra. **Environmental Development** 33, 100505. <https://doi.org/10.1016/j.envdev.2020.100505>
- VII. **Roubík, H.,** Mazancová, J., 2019. Identification of Context Specific Knowledge as tool for facilitators and their quality involvement – using Vietnamese practice as an example. **Energies** 12(7), 1326. <https://doi.org/10.3390/en12071326>
- VIII. Plyatsuk, L., Chernysh, Y., Ablieieva, I., Bataltsev, Y., Vaskin, R., Roy, I., Yakhnenko, E., **Roubík, H.,** 2020. Modelling and development of technological processes for low rank coal bio-utilization on the example of brown coal. **FUEL** 267, 117298. <https://doi.org/10.1016/j.fuel.2020.117298>
- IX. **Roubík, H.,** Barrera, S., Dung, D.V., Phung, L.D., Mazancová, J., 2020. Emission reduction potential of household biogas plants in developing countries: The case of central Vietnam. **Journal of Cleaner Production** 270, 122257. <https://doi.org/10.1016/j.jclepro.2020.122257>
- X. **Roubík, H.,** Mazancová, J., Phung, L.D., Dung, D.V., 2017. Quantification of biogas potential from livestock waste in Vietnam. **Agronomy Research** 15(2), 540-552. <https://www.cabdirect.org/cabdirect/FullTextPDF/2017/20173199367.pdf>

- XI. Jelínek, M., Mazancová, J., Dung, D.V., Phung, L.D., Banout, J., **Roubík, H.***, 2021. Quantification of the impact of partial replacement of traditional cooking fuels by biogas on global warming: Evidence from Vietnam. **Journal of Cleaner Production** 292, 126007. <https://doi.org/10.1016/j.jclepro.2021.126007>
- XII. Grabovskyi, M., Lozinskyi, M., Grabovska, T., **Roubík, H.**, 2021. Green mass to biogas in Ukraine—bioenergy potential of corn and sweet sorghum. **Biomass Conversion and Biorefinery**. <https://doi.org/10.1007/s13399-021-01316-0>
- XIII. Chernysh, Y., Roy, I., Chubur, V., Shulipa, Y., **Roubík, H.**, 2021. Co-digestion of poultry litter with cellulose-containing substrates collected in the urban ecosystem. **Biomass Conversion and Biorefinery**. <https://doi.org/10.1007/s13399-021-01582-y>