Ireneusz Grubecki

Academic degrees : Dr. Habil. Eng.

Position : Associate Professor

Engineering - technical field

Discipline : Chemical Engineering

Academic qualifications:

Functions for University

- 2020-present – Member of the Senate of UTP University of Science and Technology in Bydgoszcz
- 2012-2019 – Member of the Senate Commission on Science
- 2012-2020 – Member of the Senate Commission on Cooperation with National and International Economic Environments
- 2016-2020 – Member of the Commission on Evaluation of Science Leave at Senate Commission on Science
- 2020-present – Member of the University Electoral College

Functions for Faculty

- 2011-2020 – Deputy Dean for Science
- 2011-2019 – Member of the Faculty Council
- 2019-2020 – Member of the Faculty College
- 2012-2019 – Chairman of the Faculty Commission on Science
- 2012-2016 – Member of the Faculty Commission on Staff Assessment
- 2016-2019 – Member of the Faculty Commission on Organization, Development and Assessment of Staff
- 2015-present – Manager of the Division of Chemical and Biochemical Engineering

Membership in professional and academic boards :

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Academic merits :

Grubecki I., *Analytical Determination of the Optimal Feed Temperature for Hydrogen Peroxide Decomposition Process Occurring in Bioreactor with a Fixed-Bed of Commercial Catalase*, Catalysts 11 (2021) 35.

Grubecki I., K. Kazimierska-Drobny, *Prediction of the fixed-bed reactor behavior for biotransformation with parallel enzyme deactivation using dispersion model: A case study on hydrogen peroxide decomposition by commercial catalase*, Polish Journal of Chemical Technology 21 (2019) 106-115.

Zalewska A., J. Kowalik, **I. Grubecki,** *Application of turbiscan lab to study the effect of emulsifier content on the stability of plant origin dispersion*, Chemical and Process Engineering 40 (2019) 399–409.

Grubecki I., *Optimal feed temperature for an immobilized enzyme fixed-bed reactor: A case study on hydrogen peroxide decomposition by commercial catalase*, Chemical and Process Engineering 39 (2018) 491-501.

Grubecki I., *Optimal feed temperature for hydrogen peroxide decomposition process occurring in the bioreactor with fixed-bed of commercial catalase: A case study on thermal deactivation of enzyme*, Chemical and Process Engineering 39 (2018) 491-501.

Grubecki I., *External mass transfer model for hydrogen peroxide decomposition by Terminox Ultra catalase in a packed-bed reactor*, Chemical and Process Engineering 38 (2017) 307-319.

Grubecki I., *How to run biotransformations – At the optimal temperature control or isothermally? Mathematical assessment*, Journal of Process Control 44 (2016) 79-91

Mroczyńska K., M. Kaczorowska, E. Kolehmainen, **I. Grubecki**, M. Pietrzak and B. Ośmiałowski, *Conformational equilibrium in supramolecular chemistry: Dibutyltriuret case*, Beilstein Journal of Organic Chemistry 11 (2015) 2105-2116.

Grubecki I., *Airflow versus pressure drop for a mixture of bulk wood chips and bark at different moisture contents*, Biosystems Engineering 139 (2015) 100-110.

Professional qualifications/language skills

— / Pre-intermediate English

Research field :

1. Optimization and modeling of (bio)reactors with a fixed-bed of (bio)catalyst undergoing deactivation
2. Heterogeneous catalysis.
3. Hydrodynamic characteristics of fluids flow through the bed.
4. Modeling of (bio)catalyst deactivation.

Address

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Useful links :

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