

Katarzyna Bizon



Academic degrees: dr hab. inż.

Position: professor of CUT

Engineering - technical field

Discipline Chemical engineering

Academic qualifications:

Chair of the Department of Chemical and Process Engineering, Member of the Discipline Council of the Faculty of Chemical Engineering and Technology, Member of the Senate Ethics Committee.

Membership in professional and academic boards :

Member of the Committee of Chemical and Process Engineering of the Polish Academy of Sciences, Member of the Board of Directors of The Institute For Dynamics of Explosions and Reactive Systems.

Academic merits :

Author of two books, 41 scientific articles (including 32 in JCR journals) and 19 full texts of peer-reviewed conference proceedings. Her achievements also include 66 papers and posters presented at national and international scientific conferences, including International Colloquium on the Dynamics of Explosions and Reactive Flows, European Symposium on Computer Aided Process Engineering, International Symposium on Combustion.

Professional qualifications/language skills

Fluency in English and Italian.

Research field :

Mathematical modeling and numerical simulation of catalytic multifunctional reactors and adsorptive reactors. Modeling of multicomponent mass transport with chemical reaction in porous materials. Application of reduced and hybrid models for simulation and optimization of chemically reacting systems. Hydrodynamics of multiphase liquid-gas flows. Application of non-intrusive measurement techniques to study properties of multiphase flows. Application of advanced statistical and decomposition methods to analyze massive data from multidimensional measurement techniques.

Address

Cracow University of Technology,
Faculty of Chemical Engineering and Technology
Department of Chemical and Process Engineering
Address: Warszawska 24
31-155 Krakow
phone. +48 12 628 2735
e-mail: katarzyna.bizon@pk.edu.pl

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