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DESCRIPTION

ChERD aims to be the principal international journal for publication of high quality, original papers in **chemical engineering**.

Papers showing how research results can be used in **chemical engineering design**, and accounts of experimental or theoretical research work bringing new perspectives to established principles, highlighting unsolved problems or indicating directions for future research, are particularly welcome. Contributions that deal with new developments in plant or processes and that can be given quantitative expression are encouraged. The journal is especially interested in papers that extend the boundaries of traditional chemical engineering.

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- Hydrodynamics, heat and mass transfer in separation equipment
- Physical properties and thermodynamic models/methods
- Process design, operation and intensification
- Process equipment characterisation
- Process modelling, simulation and optimisation

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- All aspects of fluid flow in chemical and/or process vessels

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- Multicomponent mass transfer
- Simulation of heat and mass transfer processes
- Simultaneous heat and mass transfer

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- Fundamental properties of interest to processing of materials
- Injection moulding of materials
- In-line measurement and control of material processes
- Morphological development processes
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- Product design based on chemical engineering tools
- Structure-function relationships in products and relevant systems
- Tailoring chemical products and materials for end-use applications

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- Design of particulate systems and processes
- Formation and synthesis of particulates
- Kinetics of particulate processes
- Measurement and characterisation of particulate systems
- Processing, handling and storage of powders and dispersions
- Product formulation and rheology

Pharmaceutical engineering

- Design, modelling, operation and control of pharmaceutical (bio)reactors, unit operators and process systems used in the production of (bio)pharmaceuticals
- Application of process analytical technology in pharmaceutical product and process design and characterisation
- Pharmacokinetic and pharmacodynamic modelling
- Design, characterisation and modelling of drug delivery systems

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- Information modelling and analysis
- Process design and integration
- Process modelling, simulation and optimization
- Process operations and control
- Techno-economic analysis

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- Process intensification
- Reaction kinetics
- Reactive flows
- Reactor development, modelling and scale-up

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- Green processes
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- Phase separation: clarification, flocculation, microfiltration
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List: References should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', 'c', etc., placed after the year of publication.

Examples:

Reference to a journal publication:

Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2010. The art of writing a scientific article. *J. Sci. Commun.* 163, 51–59.

Reference to a book:

Strunk Jr, W., White, E.B., 2000. *The Elements of Style*, fourth ed. Longman, New York.

Reference to a chapter in an edited book:

Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281–304.

Reference to a website:

Cancer Research UK, 1975. Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> (accessed 13.03.03).

Reference to a dataset:

[dataset] Oguro, M., Imahiro, S., Saito, S., Nakashizuka, T., 2015. Mortality data for Japanese oak wilt disease and surrounding forest compositions. *Mendeley Data*, v1. <https://doi.org/10.17632/xwj98nb39r.1>.

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