processes

IMPACT FACTOR 3.5

CITESCORE 4.7

an Open Access Journal by MDPI

Phase Equilibrium in Chemical Processes: Experiments and Modeling

Guest Editor:

Dr. Ali Aminian
Department D2–Thermodynamics, Institute of Thermomechanics of the Czech Academy of Sciences, 18200 Prague, Czech Republic

Deadline for manuscript submissions:
1 November 2024

Message from the Guest Editor

We aim to present advances in experimental methods, theoretical approaches, and molecular dynamics simulations concerning vapor (or air)–liquid, liquid–liquid, solid–fluid, or multiphase systems which report new measuring techniques, experimental data, or modeling for different applications.

Topics include, but are not limited to, the following:

- Phase equilibria, solvation, transport, and thermophysical properties of matters including solids, aqueous salts, or hydrates
- Extraction and separation using different solvents or mixture of solvents
- Experimental polymorphic crystallization and solid–liquid equilibria of chemicals and pharmaceuticals
- Thermodynamics of aqueous or non-aqueous mixtures
- MD and Monte Carlo simulations of macromolecules, electrolytes for battery applications, nanoconfined water, or interactions in the presence of H_2 or supercritical CO_2
- QM/MM calculations for the conformers, adsorption, solubility or binding energy, structural dynamics, and flexibility
- CALPHAD for thermodynamic, kinetic, and other properties of multicomponent systems using g^E, cubic, and advanced EoS models

mdpi.com/si/201473

Special Issue

processes

IMPACT FACTOR 3.5

CITESCORE 4.7

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
𝕏@Processes_MDPI