Special Issue

Thermodynamics of Fluid Phase Equilibria: 150th Anniversary of Thomas Andrews

Message from the Guest Editor

The year 2019 marks the 150th anniversary of Thomas Andrews' report of p-V isotherms of carbon dioxide. Andrews' experimental measurements resulted in the discovery of a critical temperature below which a gas cannot be condensed to a liquid by pressure; thence began the study of the "thermodynamics of fluid phase equilibria". Andrews' theory of the continuity of gaseous and liquid states led to Van der Waals' first fluid equation-of-state, i.e. relating p-V-T. Rowlinson's centenary review highlighted some achievements, but also exposed unanswered questions 100 years after Andrews. This Special Issue will hopefully capture a snapshot of the research activity 50 years on from Rowlinson. We welcome contributions from experimental research, both laboratory and computer, and from theoretical studies, on the thermodynamic description of phase equilibria for all classes of fluids, including water and ionic liquids.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2020)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/21013

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