Highlights of the manuscript: "*Model-based optimal design of experiments for parameter precision: Supercritical Extraction case*" by Sliczniuk and Oinas.

* The study investigates the supercritical carbon dioxide extraction of chamomile oil, employing a parameter-distributed mathematical model to describe mass transfer phenomena between solid and fluid phases
* The work provides theoretical basis for the model-based design of experiments and suggests custom modification to the final formulations
* The study proposes distinct optimal strategies for different pressure regimes
* Experiments near the critical point provide more informative data than those at high pressures, due to rapid changes in solvent properties and mass transfer