

## Accepted Manuscript

Title: Playing with chemistry in supercritical solvents and the associated technologies for advanced materials by design

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PII: S0896-8446(17)30766-0  
DOI: <https://doi.org/10.1016/j.supflu.2017.12.021>  
Reference: SUPFLU 4146

To appear in: *J. of Supercritical Fluids*

Received date: 22-10-2017  
Revised date: 13-12-2017  
Accepted date: 13-12-2017

Please cite this article as: Cyril Aymonier, Gilles Philippot, Arnaud Erriguible, Samuel Marre, Playing with chemistry in supercritical solvents and the associated technologies for advanced materials by design, The Journal of Supercritical Fluids <https://doi.org/10.1016/j.supflu.2017.12.021>

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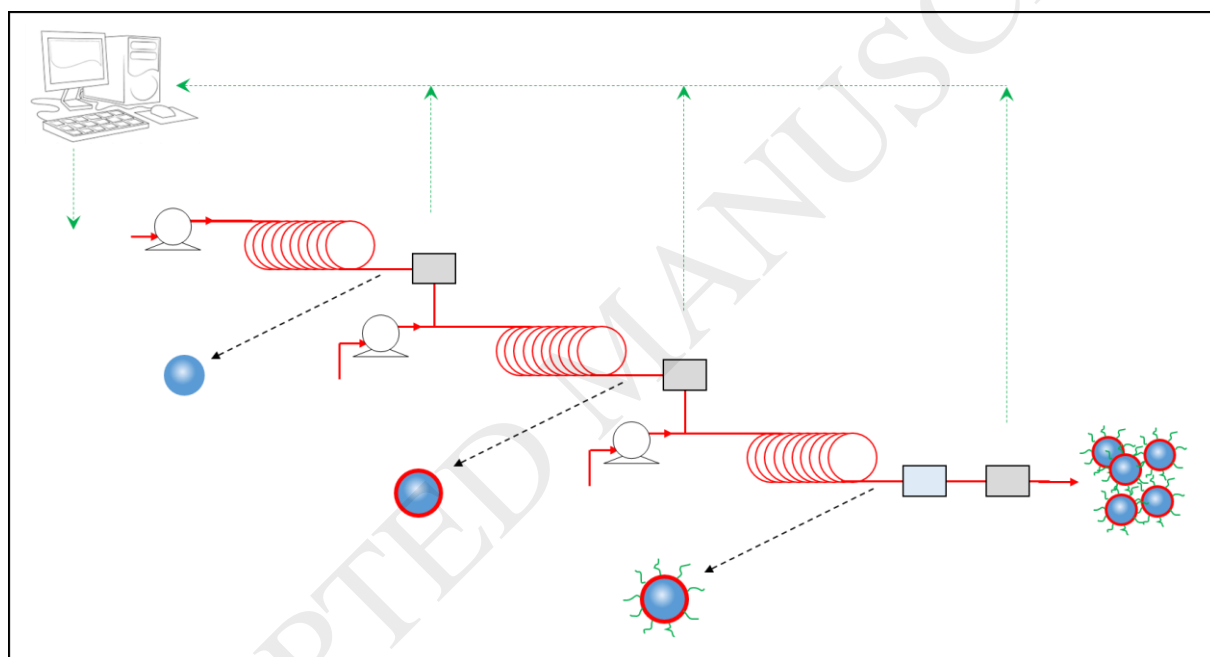
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**Graphical abstract**



**Highlights**

- Design of advanced nanostructured materials using supercritical fluids
- An access to numerous experimental and theoretical tools
- A rich chemistry through supercritical solvents and precursors
- Possibility to prepare numerous nanobricks for advanced materials
- One pot multistep processes for advanced materials by design

**Abstract:**

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