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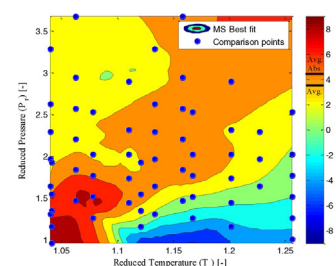
## Thermodynamics, Solubility, Phase Equilibria

## Heat capacities of supercritical fluid mixtures: Comparing experimental measurements with Monte Carlo molecular simulations for carbon dioxide-methanol mixtures

Mitchell P.E. Ishmael, Lauren B. Stutzman, Maciej Z. Lukawski, Fernando A. Escobedo, Jefferson W. Tester

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## Particle Formation

Effect of compressed liquid CO<sub>2</sub> antisolvent treatment on the synthesis of hierarchically porous nanocarbon from kraft lignin

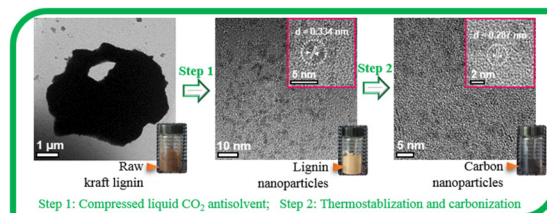
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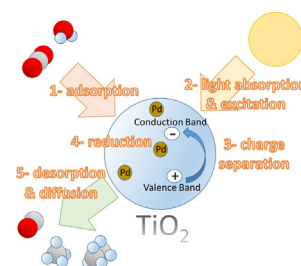
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Enhancing the photocatalytic reduction of CO<sub>2</sub> through engineering of catalysts with high pressure technology: Pd/TiO<sub>2</sub> photocatalysts

Rafael Camarillo, Susana Tostón, Fabiola Martínez, Carlos Jiménez, Jesusa Rincón

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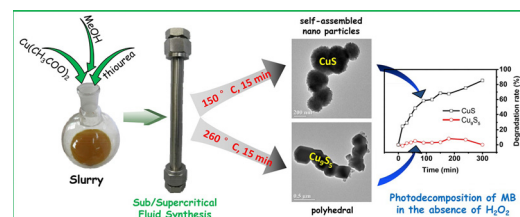


## Fast synthesis of CuS and Cu<sub>9</sub>S<sub>5</sub> microcrystal using subcritical and supercritical methanol and their application in photocatalytic degradation of dye in water

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Shuangming Li, Zhe Zhang, Lin Yan, Shengnan Jiang, Ning Zhu, Jian Li, Wenxiu Li, Sansan Yu

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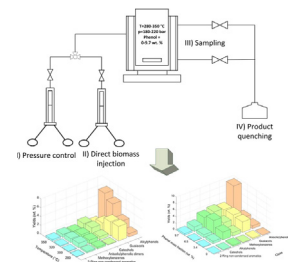


## Hydrothermal liquefaction of lignin in near-critical water in a new batch reactor: Influence of phenol and temperature

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Katarzyna R. Arturi, Morten Strandgaard, Rudi P. Nielsen, Erik G. Søgaard, Marco Maschietti

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## SC-CO<sub>2</sub> extraction of *Vitex agnus-castus* L. fruits: The influence of pressure, temperature and water presoaking on the yield and GC-MS profiles of the extracts in comparison to the essential oil composition

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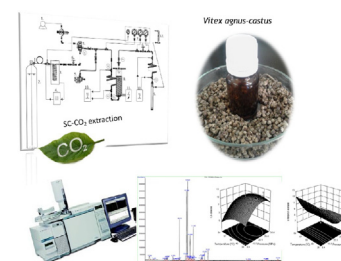
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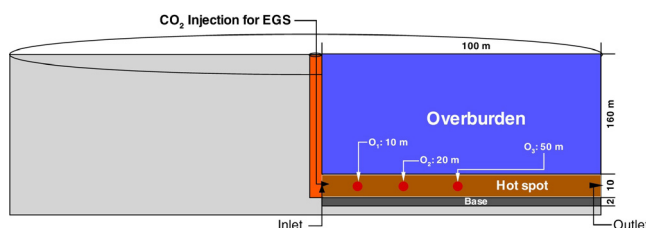


## Consistent phase-change modeling for CO<sub>2</sub>-based heat mining operation

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