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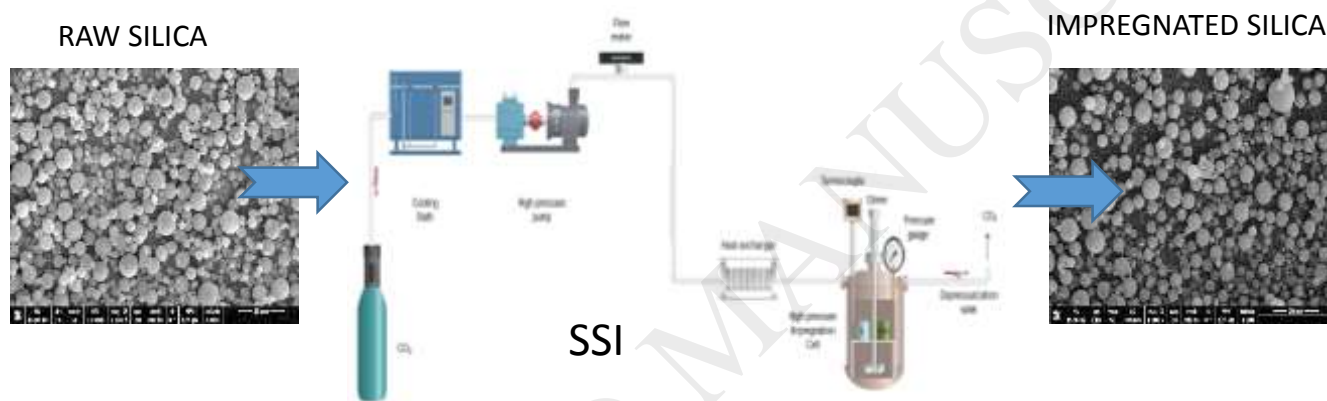
Impregnation of mesoporous silica with mangiferin using supercritical CO₂

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Graphical abstract



Highlights

- Mangiferin supercritical impregnation has been successfully carried out in mesoporous silica
- Increasing pressure, temperature, co-solvent percentage and time benefits the impregnation loading
- Specific surface of silica does not change by the impregnation process
- A fast depressurization rate led to higher mangiferin loading in a crystalline form

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