



Synthesis of high throughput Ibuprofen Nanoparticles via Supercritical CO₂ processing

Sudhir Kumar Sharma

New York University (UAE)

Abstract:

In pharmaceutical industry, poor water solubility and limited bioavailability has a major concern on new drug development. It is well established that the bioavailability of such drugs can be improved by reducing their particle size. A number of conventional strategies are available in literature for particle size reduction but they suffer with some disadvantages and handling concerns. Recently, supercritical CO₂ based processes are found to be more promising for micronization of pharmaceuticals as they have successfully addressed the above concerns and offer additional advantages like economic, non-toxic, scalable, environmentally compatible and etc.

Biography:

Sudhir Kumar Sharma has completed his Masters in Physics and MTech in Materials from Department of Physics, Barkatullah University Bhopal, India. He has completed his PhD from the Indian Institute of Science Bangalore, India. He as a Post-doctoral Fellow attended Centre for Nano Science and Engineering (CeNSE), IISc. Bangalore, India. He has worked as a research associate at New York University Abu Dhabi, UAE and is currently working as a research scientist. He has more than 90 international journals and conferences publications.



References:

1. Sudhir Kumar Sharma, ACS Appl Mater Interfaces. 2018
2. Sudhir Kumar Sharma, J Am Chem Soc. 2019
3. Sudhir Kumar Sharma, Arch Environ Contam Toxicol. 2019
4. Sudhir Kumar Sharma, Chemistry. 2018
5. Sudhir Kumar Sharma, Chem Sci. 2018

Webinar on Nanomaterials and Technology | September 29, 2020 |

Citation: Sudhir Kumar Sharma, Synthesis of high throughput Ibuprofen Nanoparticles via Supercritical CO₂ processing, Webinar on Nanomaterials and Technology, September 29, 2020.