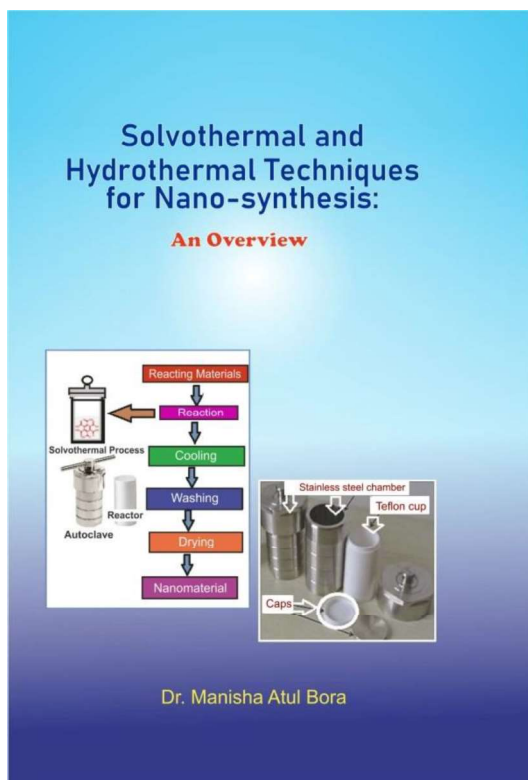


Review of the Booklet: “Solvothermal and Hydrothermal Techniques for Nano-synthesis: An Overview by Dr. Manisha Bora

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Dr. Manisha Bora has come with handy booklet on “*Solvothermal and Hydrothermal Techniques for Nano-synthesis*” in the same timeframe of October 2023 when Nobel prize in Chemistry has been awarded to three American Professors Bawendi, Brus and Yekimov for their pioneering research on Q-Dots, the tiniest components of nanotechnology. What a great coincidence! This booklet is thus a timely and welcome addition in the sphere of nanotechnology. It comprises in all 12 chapters followed by apt

references at the end. Illustrative figures and synthesis equations are provided at appropriate places. Table-1 furnishes summary of hydrothermal and solvothermal reaction conditions for the synthesis of typical nanomaterials and their focussed end-applications. It is well-established that hydrothermal/solvothermal synthesis conditions lead to formation of nanostructures with complex morphological features/ hierarchical nano- architecture which, in turn, can enhance the utility of the envisaged end-application. Perhaps, inclusion of representative FESEM and FETEM images in this booklet could have been very useful for clarity on nano-scale formation and also to prove the merits of hydrothermal/solvothermal

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techniques over other techniques. I sometime tend to refer hydrothermal/solvothermal reactor as ‘house-hold pressure cooker’ and when combined with the usage of microwave oven for ultra-fast heating, the pressue-cooker+microwave combination can generate useful ‘kitchen-chemistry’ with interesting novel applications. Dr.Manisha has briefly touched upon this aspect also in this endeavour. In nutshell, the novice as well as seasoned researches in the domain of nanotechnology can find this booklet quite beneficial.

The booklet is a recent publication (6.10.2023) by ISAS, Pune Chapter and is a low priced (Rs 50/-) , easily affordable and may be purchased from: :

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