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Growth of Technologically Significant Bulk Crystals by Unidirectional S-R Method: A Review

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Abstract : The Review of Literature plays a vital role in all Researches. It is the initial work for carrying out a focused innovative research in a specific field. It empowers a Research intellectual to become an expert in his/her research area. It also provides a basis of deep knowledge in research field. It will give summary of available literature of particular area of research. Sankaranarayanan-Ramasamy (SR) method was discovered recently which comes under low temperature solution growth of single crystals. Since then, various developments were made on SR method and lot of researchers are doing research in that method still today in various laboratories throughout the globe. It is a novel method to grow large size crystals. By this method, single crystals shall be grown in a particular orientation. Simple and less expensive experimental set up of this method can be easily installed in any laboratory. Positive, Negative, High, Moderate and Low solubility materials shall be grown by SR method. Modified SR Method, Vacuum Assisted SR Method are the different types of SR Method. The Rotational SR Method (RSR) is the latest modification in SR Method. In this Review, Growth of Technologically Significant Bulk Crystals by Unidirectional S-R Methods were reviewed.

Key Words : Review, Bulk Crystals, Unidirectional Growth, S-R method, Technological Significance.

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