SONOCHEMISTRY

New Opportunities for Green Chemistry

by **Dr Gregory Chatel** Université Savoie Mont Blanc, France

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The application of ultrasound waves to chemical reactions — sonochemistry — has huge potential for innovation in eco-friendly and eco-efficient chemistry. *Sonochemistry: New Opportunities for Green Chemistry* first introduces the basics of ultrasonic waves and the history of sonochemistry before moving on to look at acoustic cavitation and the estimation of ultrasonic parameters. After this comes a discussion of the equipment needed for experimentation with sonochemistry. Finally there is an in-depth look at green sonochemistry in different fields of research, covering concepts such as new combinations of ultrasound with ionic liquids, microwave irradiation, enzyme combination, and sono-assisted electrochemistry. In conclusion, distinguished sonochemistry, and their predictions in the field.

Undergraduate and graduate students in chemistry, and practitioners of ultrasonic technology will gain a unique insight into the opportunities and challenges facing sonochemistry today in its theoretical and practical implementation. **Readership:** Undergraduate and graduate students in chemistry, and practitioners of ultrasonic technology.

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