Record Nr. UNINA9910254143903321 Sonochemistry: From Basic Principles to Innovative Applications // Titolo edited by Juan Carlos Colmenares, Gregory Chatel Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2017 **ISBN** 3-319-54271-0 Edizione [1st ed. 2017.] 1 online resource (X, 281 p. 90 illus., 30 illus. in color.) Descrizione fisica Collana Topics in Current Chemistry Collections, , 2367-4067 Disciplina 542 Soggetti Organic chemistry Physical chemistry Catalysis **Biomaterials** Environmental chemistry **Organic Chemistry** Physical Chemistry **Environmental Chemistry** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references. Nota di contenuto Theory of Sonochemistry -- Advances in Green Organic Sonochemistry -- Nanostructured Materials Synthesis Using Ultrasound -- Synthesis of Photoactive Materials by Sonication: Application in Photocatalysis and Solar Cells -- The Role of Ultrasound on Advanced Oxidation Processes -- Effects of Ultrasonic Disintegration of Excess Sewage Sludge --Combined Microwaves/Ultrasound, a Hybrid Technology -- Ultrasound in Combination with Ionic Liquids: Studied Applications and Perspectives -- Synergy of Microfluidics and Ultrasound --Sonochemical Reactors. The series Topics in Current Chemistry Collections presents critical Sommario/riassunto reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology.

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give the non-specialist reader, whether in academia or industry, a

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