Record Nr. UNINA9910817988103321 Autore Lugaro Maria Titolo Stardust from meteorites [[electronic resource]]: an introduction to Presolar Grains / / Maria Lugaro New Jersey: London,: World Scientific, 2005 Pubbl/distr/stampa 1-281-90584-4 **ISBN** 9786611905842 981-270-348-9 Descrizione fisica 1 online resource (224 p.) Collana World Scientific series in astronomy and astrophysics;; v. 9 Disciplina 523.1125 523.51 Soggetti Cosmic grains Interstellar matter Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Preface; Contents; 1. Meteoritic Presolar Grains and Their Significance; 2. Basics of Stellar Nucleosynthesis; 3. Laboratory Analysis of Presolar Grains; 4. The Origin of Presolar Sic Grains; 5. Heavy Elements in Presolar SiC Grains: 6. Diamond, Graphite and Oxide Grains: Appendix A Glossary; Appendix B Solutions to Exercises; Appendix C Selected Books and Reviews for Quick Reference; Bibliography; Index The study of presolar meteoritic grains is a new inter-disciplinary field Sommario/riassunto that brings together topics from nuclear physics to astronomy and chemistry. Traditionally, most of the information about the cosmos has been gathered by observing light through telescopes. However, with the recent discovery that some dust grains extracted from primitive meteorites were produced in stellar environments, we now have the opportunity to gather information about stars and our Galaxy from the laboratory analysis of tiny pieces of stardust. Stellar grains represent a

unique and fascinating subject of study. Th