

1. Record Nr.	UNINA9910554222903321
Titolo	Mechanochemistry : a practical introduction from soft to hard materials // edited by Evelina Colacino [and four others]
Pubbl/distr/stampa	Berlin ; ; Boston : , : De Gruyter, , [2021] ©2021
ISBN	3-11-060833-2
Descrizione fisica	1 online resource (XIII, 101 p.)
Collana	De Gruyter STEM
Disciplina	541.39
Soggetti	Mechanical chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frontmatter -- Preface -- Acknowledgements -- Contents -- Editors' Biographical Sketches -- 1 Mechanochemistry: an overview and a historical account -- 2 From manual grinding to automated ball mills -- 3 Rediscovering mechanochemistry for inorganic materials -- 4 Introducing practical organic mechanochemistry into undergraduate curricula -- 5 Mechanochemical preparation of cocrystals -- 6 Coordination polymers by a mechanochemical approach -- Index
Sommario/riassunto	Mechanochemistry has been recently acknowledged by IUPAC as one of the top ten emerging technologies in chemistry, answering to the increased demand for clean processes and sustainable reaction conditions. This book focuses on the rediscovery of mechanochemistry for inorganic, organic and organo-metallic materials. Focus on experimental techniques and equipment will show how to implement mechanochemistry as an innovative way to sustainability in academic laboratories. The contents are ideal for researchers starting off in industry and academia, as well as advanced students.