1. Record Nr. UNINA9910887812903321

Autore	Rattan Sunita
Titolo	Emerging Trends in Synthesis and Catalysis in Chemistry : Proceedings of ETSC 2023 / / edited by Sunita Rattan, Bhuvanesh Gupta, Christine Jeyaseelan, Anita Gupta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9751-69-1
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (342 pages)
Collana	Springer Proceedings in Materials, , 2662-317X ; ; 51
Altri autori (Persone)	GuptaBhuvanesh JeyaseelanChristine GuptaAnita
Disciplina	660
Soggetti	Green chemistry Chemistry, Technical Polymers Green Chemistry Industrial Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Impurity Profiling of Antihyperglycemic Drug –Sitagliptin -- Anticancer and Antimicrobial Studies of Dibutyl(hexadecanoyloxy)stannyl hexadecanoate -- Quality Control Methods to Check Phthalates Toxicity in Textile Products -- Significance of EDTA and Sodium Citrate in blood preservation: A reaction mechanism with Calcium as substrate -- Modern Approaches in the Synthesis of Optically Stimulated Luminescent (OSL) Materials for Dosimetry Applications -- Recent Advances in the Synthesis of Thermoluminescent Materials for Dosimetry Applications -- Simulation Study of Some Characteristics of Single and Binary Stars using MAdSTAR, MESA, and NAAP Astronomical Tools -- Variation of in-situ Partial Pressures of Different Gases Over Southern Polar Region of Moon Utilizing Chandrayaan-2 Data -- Synthesis of Coumarins by Pechmann Condensation using Nano Ferrites -- Deployment of Solar Energy Concentrators Across the Globe -- Review on Synthesis and Application of Zn@m-SiO2 Composites -- Analyzing of 6-APA for Synthesis of Amoxicillin -- An Innovative Cation

	Exchange Water Treatment Method Using Zeolite Synthesized from Industrial Waste -- Chlor-Alkali Waste in the Production of Wall Tiles: A Sustainable Approach -- MWCNT/TPU Nanocomposite Based UV Photodetector.
Sommario/riassunto	This book presents the select papers from the International Symposium on “Emerging Trends in Synthesis and Catalysis” (ETSC 2023). It covers the latest trends in novel synthesis strategies and highly efficient heterogeneous/homogeneous catalytic chemical species. Various topics covered in this book are green synthesis, reaction designs, catalyst synthesis, advanced materials for organic synthesis, polymer synthesis, stereoselective synthesis, flow chemistry, bio-catalysis, organo-catalysis, catalysis for sustainable development and industrial processes, multiphase catalysis, separation science and process development, organometallic compounds in synthesis and catalysis, computational tools for synthetic processes and processes for environment sustainability. The book is useful for researchers, academicians, and industrialists working in material science and industrial chemistry.