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Titolo	Calixarenes and Beyond // edited by Placido Neri, Jonathan L. Sessler, Mei-Xiang Wang
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Descrizione fisica	1 online resource (XI, 1062 p. 922 illus., 422 illus. in color.)
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Soggetti	Chemistry, Inorganic Organometallic chemistry Inorganic Chemistry Organometallic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Synthesis and modifications -- Meta substitution -- Methylene functionalization -- Calix[5]arenes -- Calix[6]arenes -- Larger calixarenes -- Resorcinarenes -- Cavitands -- Carcerands -- Homocalixarenes -- Heterocalixarenes -- Calixpyrroles -- Thiocalixarenes -- Pillararenes: Synthesis and modifications -- Pillararenes: Supramolecular applications -- Anion receptors -- Water soluble -- Peptidocalix -- Glycocalix -- Protein recognition and Inhibition -- Coordination -- Catalysis -- Fluosensors -- Threading -- Capsules -- Chromatography -- Gas sorption and storage -- Solid state -- Fullerenes and nanotubes.
Sommario/riassunto	Contributions featuring the chemistry and applications of a family of macrocyclic compounds collectively known as 'calixarenes' are presented in this edited volume. The arsenal of structures based on calixarenes provides tools which are effective in numerous areas of supramolecular chemistry. The Editors have compiled a timely volume which contains up to date, high calibre contributions from a large number of international authors. A broad perspective on the progress and future of calixarene chemistry is presented. Aimed at students and researchers active in Supramolecular Chemistry.

