1. Record Nr. UNINA990009586780403321

Autore	Verrill, A. Hyatt <Alpheus Hyatt ; <1871-1954
Titolo	Strani animali e loro storie / A. Hyatt Verrill
Pubbl/distr/stampa	Milano : A. Corticelli, stampa 1941
Descrizione fisica	256 p., [8] c. di tav. : ill. ; 20 cm
Locazione	DMVBF
Collocazione	59-25
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910137968003321

Titolo	Boronic acids [[electronic resource]] : preparation and applications in organic synthesis, medicine and materials / / edited by Dennis G. Hall ; with a foreword by Akira Suszuki
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2011
ISBN	1-283-60404-3 9786613916495 3-527-33214-6 3-527-63934-9 3-527-63932-2
Edizione	[2nd completely rev. ed.]
Descrizione fisica	1 online resource (729 p.)
Altri autori (Persone)	HallDennis G. <1968->
Disciplina	547.05671
Soggetti	Organic acids Organoboron compounds Organic acids - Therapeutic use Organoboron compounds - Therapeutic use Organic acids - Synthesis Organoboron compounds - Synthesis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Boronic Acids: Preparation and Applications in Organic Synthesis, Medicine and Materials; Foreword; Contents to Volume 1; Contents to Volume 2; Preface; List of Contributors; 1 Structure, Properties, and Preparation of Boronic Acid Derivatives: Overview of Their Reactions and Applications; 1.1 Introduction and Historical Background; 1.2 Structure and Properties of Boronic Acid Derivatives; 1.2.1 General Types and Nomenclature of Boronic Acid Derivatives; 1.2.2 Boronic Acids; 1.2.2.1 Structure and Bonding; 1.2.2.2 Physical Properties and Handling; 1.2.2.3 Safety Considerations 1.2.2.4 Acidic Character1.2.2.5 Chemical Stability; 1.2.3 Boronic Acid Derivatives; 1.2.3.1 Boroxines (Cyclic Anhydrides); 1.2.3.2 Boronic Esters; 1.2.3.3 Acyloxy- and Diacyloxyboronates; 1.2.3.4 Dialkoxyboranes and Other Heterocyclic Boranes; 1.2.3.5 Diboronyl Esters; 1.2.3.6 Azaborolidines and Other Boron-Nitrogen Heterocycles; 1.2.3.7 Dihaloboranes and Dihydroalkylboranes; 1.2.3.8 Trifluoro- and Trihydroxyborate Salts; 1.3 Preparation of Boronic Acids and Their Esters; 1.3.1 Arylboronic Acids; 1.3.1.1 Electrophilic Trapping of Arylmetal Intermediates with Borates 1.3.1.2 Transmetalation of Aryl Silanes and Stannanes1.3.1.3 Coupling of Aryl Halides with Diboronyl Reagents; 1.3.1.4 Direct Boronation by Transition Metal-Catalyzed Aromatic C-H Functionalization; 1.3.1.5 Cycloadditions of Alkynylboronates; 1.3.1.6 Other Methods; 1.3.2 Diboronic Acids; 1.3.3 Heterocyclic Boronic Acids; 1.3.4 Alkenylboronic Acids; 1.3.4.1 Electrophilic Trapping of Alkenylmetal Intermediates with Borates; 1.3.4.2 Transmetalation Methods; 1.3.4.3 Transition Metal-Catalyzed Coupling between Alkenyl Halides/ Triflates and Diboronyl Reagents; 1.3.4.4 Hydroboration of Alkynes 1.3.4.5 Alkene Metathesis1.3.4.6 Diboronylation and Silaboration of Unsaturated Compounds; 1.3.4.7 Other Methods; 1.3.5 Alkynylboronic Acids; 1.3.6 Alkylboronic Acids; 1.3.7 Allylic Boronic Acids; 1.3.8 Chemoselective Transformations of Compounds Containing a Boronic Acid (Ester) Substituent; 1.3.8.1 Oxidative Methods; 1.3.8.2 Reductive Methods; 1.3.8.3 Generation and Reactions of a-Boronyl-Substituted Carbanions and Radicals; 1.3.8.4 Reactions of a-Haloalkylboronic Esters; 1.3.8.5 Other Transformations; 1.3.8.6 Protection of Boronic Acids for Orthogonal Transformations 1.4 Isolation and Characterization1.4.1 Recrystallization and Chromatography; 1.4.2 Solid Supports for Boronic Acid Immobilization and Purification; 1.4.2.1 Diethanolaminomethyl Polystyrene; 1.4.2.2 Other Solid-Supported Diol Resins; 1.4.3 Analytical and Spectroscopic Methods for Boronic Acid Derivatives; 1.4.3.1 Melting Points, Combustion Analysis, and HPLC; 1.4.3.2 Mass Spectrometry; 1.4.3.3 Nuclear Magnetic Resonance Spectroscopy; 1.4.3.4 Other Spectroscopic Methods; 1.5 Overview of the Reactions of Boronic Acid Derivatives; 1.5.1 Metalation and Metal-Catalyzed Protodeboronation 1.5.2 Oxidative Replacement of Boron
Sommario/riassunto	Following the huge success of the first edition, which has become THE reference source for everyone working in the field, this long-awaited, completely updated edition features almost 50% new content.The world-renowned chemist Prof Dennis Hall is joined by a select group of top authors to cover all modern aspects of boronic acid derivatives in one comprehensive handbook. The experimental procedures described make for extremely useful reading. From the reviews of the first edition: ""...deserves to be on the bookshelf of all synthetic chemists,

whether in discovery or process chemistry.