Record Nr. UNINA9910137222703321 Organic redox systems: synthesis, properties, and applications // **Titolo** edited by Tohru Nishinaga Pubbl/distr/stampa Hoboken, New Jersey:,: Wiley,, [2016] ©2016 **ISBN** 1-118-85885-9 1-118-85872-7 1-118-85898-0 Descrizione fisica 1 online resource (862 p.) Disciplina 547/.23 Soggetti Oxidation-reduction reaction 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. TITLE PAGE: TABLE OF CONTENTS: LIST OF CONTRIBUTORS: PREFACE: 1 Nota di contenuto INTRODUCTION: BASIC CONCEPTS AND A BRIEF HISTORY OF ORGANIC REDOX SYSTEMS: 1.1 REDOX REACTION OF ORGANIC MOLECULES: 1.2 REDOX POTENTIAL IN NONAQUEOUS SOLVENTS; 1.3 A BRIEF HISTORY OF ORGANIC REDOX COMPOUNDS: REFERENCES: 2 REDOX-MEDIATED REVERSIBLE -BOND FORMATION/CLEAVAGE; 2.1 DYNAMIC REDOX ("DYREX") SYSTEMS; 2.2 ADVANCED ELECTROCHROMIC RESPONSE OF "ENDO"-TYPE DYREX SYSTEMS EXHIBITING REDOX SWITCHING OF A -BOND: 2.3 ADVANCED ELECTROCHROMIC RESPONSE OF "EXO"-TYPE DYREX SYSTEMS EXHIBITING REDOX SWITCHING OF A -BOND 2.4 PROSPECT: REDOX SYSTEMS WITH MULTIPLE DYREX UNITSREFERENCES: 3 REDOX-CONTROLLED INTRAMOLECULAR MOTIONS TRIGGERED BY -DIMERIZATION AND PIMERIZATION PROCESSES: 3.1 INTRODUCTION: 3.2 OLIGOTHIOPHENES: 3.3 PHENOTHIAZINE; 3.4 NAPHTHALENE AND PERYLENE BISIMIDES; 3.5

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