1. Record Nr. UNINA9910453879203321

Titolo	Annual review of gerontology and geriatrics . Volume 13 Focus on kinship, aging, and social change [[electronic resource] /] / George L. Maddox, M. Powell Lawton, volume editors
Pubbl/distr/stampa	New York, : Springer, 1993
ISBN	1-281-81833-X 9786611818333 0-8261-6506-0
Descrizione fisica	1 online resource (281 p.)
Collana	Annual review of gerontology and geriatrics, , 0198-8794 ; ; v. 13 1993
Altri autori (Persone)	LawtonM. Powell <1923-2001.> (Mortimer Powell) MaddoxGeorge L
Disciplina	362.5 362.5/05 362.505
Soggetti	Aging Kinship Electronic books.
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	Contents; Contributors; Forthcoming Contents, Volume 14; Chapter 1 Introduction; Part I: An Overview of Theory and Research; Chapter 2 Families, Aging, and Social Change: Seven Agendas for 21st Century Researchers; Chapter 3 Elusiveness of Family Life: A Challenge for the Sociology of Aging; Part II: The Changing Balance of Work and Family; Chapter 4 Kin Reciprocities, the Familial Corporation, and Other Moral Economies: Workplace, Family and Kin in the Modern Global Context; Chapter 5 Balancing Work and Family in an Aging Society: The Canadian Experience Part III: Comparative Ethnographic Accounts of Kinship and Social ChangeChapter 6 Chinese Kinship and the State: Shaping of Policy for the Elderly; Chapter 7 Aging and Intergenerational Relations in Spain and Spanish America; Part IV: Changing Patterns of Kinship Exchange and Assistance; Chapter 8 Kin Structure and Assistance in Aging Societies; Chapter 9 Intergenerational Transfers: Economic,

	Demographic, and Social Perspectives; Part V: Social Change and the Future of Kin Relationships; Chapter 10 Demographic Change and Kin Relationships in Later Life Chapter 11 Kinship and Family Policy in an Aging SocietyIndex; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; R; S; T; U; V; W
Sommario/riassunto	During the past few decades, the dramatic social changes with regard to our aging population and changes in the family unit have made both demographic and socioeconomic consequences, as well as an effect on matters of social policy. The prestigious editors, George L. Maddox and M. Powell Lawton, have assembled an impressive group of expert contributors whose chapters address topics from the latest theory and research findings to the changing balance of work and families, as well as patterns of kinship.

2.

Record Nr.	UNINA9910143715003321
Autore	Sangwal Keshra
Titolo	Additives and crystallization processes [[electronic resource]] : from fundamentals to applications / / Keshra Sangwal
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : Wiley, c2007
ISBN	1-280-97412-5 9786610974122 0-470-51783-2 0-470-51782-4
Descrizione fisica	1 online resource (469 p.)
Disciplina	622 660.284298
Soggetti	Crystal growth Nucleation Additives Crystallization Electronic books.
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 indexes.

Nota di contenuto

Additives and Crystallization Processes; Contents; Preface; 1 Complexes in Solutions; 1.1 Structure of Common Solvents; 1.2 Structure of Pure Aqueous Electrolyte Solutions; 1.2.1 Solvation of Electrolyte Ions in Solutions; 1.2.2 Concentrated and Saturated Electrolyte Solutions; 1.2.3 Formation of Aquo and Partially Aquo Complexes; 1.3 Structure of Aqueous Electrolyte Solutions Containing Additives; 1.4 Polyelectrolytes and Surfactants in Solutions; 1.5 Polydentate Ligands and Molecular Additives; 1.6 Crystal-Additive Interactions; References
2 Three-Dimensional Nucleation and Metastable Zone Width2.1 Driving Force for Phase Transition; 2.2 Three-Dimensional Nucleation of Crystals; 2.2.1 Three-Dimensional Nucleation Rate; 2.2.2 Three-Dimensional Heterogeneous Nucleation; 2.3 Metastable Zone Width; 2.4 Nucleation and Transformation of Metastable Phases; 2.4.1 Crystallization of Metastable Phases; 2.4.2 Overall Crystallization; 2.5 Induction Period for Crystallization; 2.6 Effects of Additives; 2.6.1 Solubility; 2.6.2 Three-Dimensional Nucleation Rate; 2.6.3 Metastable Zone Width; References
3 Kinetics and Mechanism of Crystal Growth: An Overview3.1 Crystal Growth as a Kinetic Process; 3.2 Types of Crystal-Medium Interfaces; 3.3 Roughening of Steps and Surfaces; 3.3.1 Thermodynamic Roughening and the Surface Entropy Factor; 3.3.2 Kinetic Roughening; 3.4 Growth Kinetics of Rough Faces; 3.5 Growth Kinetics of Perfect Smooth Faces; 3.6 Growth Kinetics of Imperfect Smooth Faces; 3.6.1 Surface Diffusion and Direct Integration Models; 3.6.2 Bulk Diffusion Models; 3.6.3 Growth by a Group of Cooperating Screw Dislocations; 3.6.4 Preferential Growth at Edge Dislocations
3.7 Effect of Foreign Substances on Growth Kinetics3.7.1 Some General Considerations; 3.7.2 Growth Kinetics by Heterogeneous Two-Dimensional Nucleation; 3.8 Real Crystal Growth Mechanisms; 3.8.1 Structure of Interfacial Layer; 3.8.2 Sources of Growth Steps; 3.9 Techniques for Studying Growth Kinetics; References; 4 Effect of Impurities on Crystal Growth Kinetics; 4.1 Mobile and Immobile Impurities; 4.2 Surface Coverage and Adsorption Isotherms; 4.2.1 Adsorption Isotherms; 4.2.2 Changes in Surface Free Energy by Adsorption of Impurities; 4.3 Kinetic Models of Impurity Adsorption 4.3.1 Earlier Models4.3.2 Velocity of Curved Steps; 4.3.3 Impurity Adsorption at Kinks in Steps: Kubota-Mullin Model; 4.3.4 Impurity Adsorption at Surface Terrace: Cabrera-Vermilyea Model; 4.3.5 Effectiveness Factor for Impurity Adsorption; 4.3.6 Adsorption of Two Competing Impurities; 4.4 Confrontation of Impurity Adsorption Mechanisms with Experimental Data; 4.5 Time-Dependent Impurity Adsorption; 4.6 Growth Kinetics in the Presence of Impurities; 4.6.1 Basic Kinetic Equations; 4.6.2 Time Dependence of Face Displacement 4.6.3 Dependence of Kinetic Coefficient for Step Motion on Impurity Concentration

Sommario/riassunto

Crystal growth technology involves processes for the production of crystals essential for microelectronics, communication technologies, lasers and energy producing and energy saving technology. A deliberately added impurity is called an additive and in different industries these affect the process of crystal growth. Thus, understanding of interactions between additives and the crystallizing phases is important in different processes found in the lab, nature and in various industries. This book presents a generalized description of the mechanisms of action of additives during nucleation, grow

3. Record Nr. UNINA9910782121203321

Autore	Costisor Otilia
Titolo	Metal mediated template synthesis of ligands [[electronic resource] /] / Otilia Costisor, Wolfgang Linert
Pubbl/distr/stampa	Singapore ; ; River Edge, NJ, : World Scientific Pub. Co., c2004
ISBN	1-281-93470-4 9786611934705 981-279-481-6
Descrizione fisica	1 online resource (307 p.)
Altri autori (Persone)	LinertW
Disciplina	541.2242 547.05 547/.05
Soggetti	Organometallic compounds - Synthesis Organic 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 (p. 257-294) and index.
Nota di contenuto	Contents ; Preface ; The Template Effect ; 1.1. Types of Template Effects ; 1.2. The Template Effect as a Molecular Organizer Effect ; 1.3. Factors Affecting the Product of a Template Reaction ; 1.3.1. Coordination of ligands ; 1.3.2. The chelate effect ; 1.3.3. Macrocyclic effect 1.4. The Negative Template Effect 1.5. Advantages of Metal Template Reaction ; Alkylation Reactions ; 2.1. Alkylation of the Nitrogen Atom ; 2.2. Alkylation of the Sulfur Atom ; 2.2.1. Open chain systems ; 2.2.2. Macrocyclic ligands ; Schiff Condensation ; 3.1. Mechanistic Aspects 3.2. Open-chain Ligands 3.3. Macrocyclic Ligands ; 3.3.1 Diimine macrocycles ; 3.3.2. Tetraimine macrocycles ; 3.4. Cage Ligands ; 3.5 Compartmental Ligands ; 3.5.1. Closed-chain ligands ; 3.5.2. Open chain ligands

; Mannich Condensation ; 4.1. Mechanistic Aspects
4.2 Acyclic Ligands 4.2.1. Polyamine ligands
; 4.2.2. NO donor ligands ; 4.2.3. SN donor ligands
; 4.3. Monocyclic Ligands ; 4.3.1. Tetraaza
macrocycles ; 4.3.2. Pentaaza macrocycles
; 4.3.3. Hexaaza macrocycles ; 4.3.4. Octaaza
macrocycles ; 4.3.5. Azaether macrocycle
4.3.6. Azathioether macrocycle 4.3.7.
Reinforced macrocycles ; 4.3.8. Macromonocyclic
dicompartmental ligands ; 4.4.
Isolated Dimacrocycles ; 4.5.Condensed
Polymacrocyclic Ligands ; 4.5.1. Carbon
and nitrogen caped amine ligands ;
4.5.2. P- As amine cage ligands
4.5.3. Thioamine cage ligands

Sommario/riassunto

This book surveys the relatively new area of the synthesis of organic ligands when metal ions act as a template. In the last fifty years this field has undergone an explosive development, marked by a great amount of literature. The material in the book has been arranged according to the type of chemical reaction involved. In this frame, the basic principles of metal template reactions and the shape of the molecules are considered. Designed to satisfy the demands of students, young researchers doing their PhDs, and those working in the field of coordination chemistry, the book details the role