

Emil Burzo

Rare Earths-Transition Metals-Boron Compounds

Basic Properties to Technical
Applications

 Springer

Transition Metals And Rare Earth Compounds

Léo Pomar



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Transition Metal and Rare Earth Compounds III ,2004 *Transition Metal and Rare Earth Compounds* Hartmut Yersin,2003-07-01 Transition metal and rare earth compounds are investigated intensively because of important questions concerning fundamental research problems More recently also their enormous potential for the development of new materials for photophysical and photochemical applications has been explored Thus it is important to focus on a deeper understanding of the electronic energies transition probabilities intermolecular interactions etc This task has been accomplished by leading researchers in the field They present introductions into but also detailed reviews of the current state of knowledge of three different subjects Transition Metal and Rare Earth Compounds ,2001 **Alloying Characteristics of the Rare Earth Elements with the Transition Elements** Rodney P. Elliot,Rodney P. Elliott,1964 The alloying characteristics of the rare earth elements with the transition metals undergo a radical change as the atomic number of the transition series increases transition elements in Groups IVa Va and VIa are immiscible with the rare earths while elements of Groups VIIa and VIIIa VIIIb and VIIIc form many compounds Since this cannot be correlated with a size effect a reasonable explanation for this behavior is a valency or electronegativity effect Those binary systems forming compounds form Laves phases which can exist in one of three related crystal structure types MgCu₂ MgZn₂ or MgNi₂ The specific Laves type crystal structure can be related to the average free electron concentration a phenomenon which has been used to calculate electronic valency of the transition elements A compilation of the known Laves type phases occurring between rare earth elements and transition metals supports the hypothesis that the valency effect is operative Forty two additional rare earth transition metal compounds previously unknown have been prepared and found to be consistent with the previously noted trend with but two exceptions On the assumption that a critical electron atom ratio determines which Laves type structures are stable the periodical grouping of the Laves type species of the rare earth transition metal compounds indicates a slight but regular increase in valency as the atomic number of the rare earth increases Ternary alloys prepared between the Laves phases of different structure types substantiate the observed valency trend Transition Metal and Rare Earth Compounds III Hartmut Yersin,2004-10-11 With contribution by numerous experts **Transition Metal and Rare Earth Compounds III** Hartmut Yersin,2010-12-01 With contribution by numerous experts **Transition Metal and Rare Earth Compounds** Hartmut Yersin,2003-07-01 There exists a large literature on the spectroscopic properties of copper II compounds This is due to the simplicity of the d electron configuration the wide variety of stereochemistries that copper II compounds can adopt and the f xional geometric behavior that they sometimes exhibit 1 The electronic and geometric properties of a molecule are inexorably linked and this is especially true with six coordinate copper II compounds which are subject to a Jahn Tler effect However the spectral structural correlations that are sometimes d wn must often be viewed with caution as the information contained in a typical solution UV Vis absorption spectrum of a copper II compound is limited

Meaningful spectral structural correlations can be obtained in a related series of compounds where detailed spectroscopic data is available In the following sections two such series are examined the six coordinate CuF and $6/2 \text{ Cu H O}$ ions doped as impurities in single crystal hosts Using low temperature polarized optical spectroscopy and electron paramagnetic resonance a very detailed picture can be drawn about the geometry of these ions in both their ground and excited electronic states We then compare the spectroscopically determined structural data with that obtained from X ray diffraction or EXAFS measurements

Transition Metal and Rare Earth Compounds Kevin Lewis Bray,2001 Transition metal and rare earth compounds are investigated intensively because of important questions concerning fundamental research problems More recently also their enormous potential for the development of new materials for photophysical and photochemical applications has been explored Thus it is important to focus on a deeper understanding of the electronic energies transition probabilities intermolecular interactions etc This task has been accomplished by leading researchers in the field They present introductions into but also detailed reviews of the current state of knowledge of three different subjects

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Transition Metal and Rare Earth Compounds Hartmut Yersin,2012-03-14 Transition metal and rare earth compounds are investigated intensively because of important questions concerning fundamental research problems More recently also their enormous potential for the development of new materials for photophysical and photochemical applications has been explored Thus it is important to focus on a deeper understanding of the electronic energies transition probabilities intermolecular interactions etc This task has been accomplished by leading researchers in the field They present introductions into but also detailed reviews of the current state of knowledge of three different subjects

Transition Metal and Rare Earth Compounds III Hartmut Yersin,2004-11-18 With contribution by numerous experts Alloying Characteristics of the Rare Earth Elements with the Transition Elements

,1964 The alloying characteristics of the rare earth elements with the transition metals undergo a radical change as the atomic number of the transition series increases transition elements in Groups IVa Va and VIa are immiscible with the rare earths while elements of Groups VIIa and VIIIa VIIIb and VIIIc form many compounds Since this cannot be correlated with a size effect a reasonable explanation for this behavior is a valency or electronegativity effect Those binary systems forming compounds form Laves phases which can exist in one of three related crystal structure types $MgCu_2$ $MgZn_2$ or $MgNi_2$ The specific Laves type crystal structure can be related to the average free electron concentration a phenomenon which has been used to calculate electronic valency of the transition elements A compilation of the known Laves type phases occurring between rare earth elements and transition metals supports the hypothesis that the valency effect is operative Forty two additional rare earth transition metal compounds previously unknown have been prepared and found to be consistent with the previously noted trend with but two exceptions On the assumption that a critical electron atom ratio determines which Laves type structures are stable the periodical grouping of the Laves type species of the rare earth transition metal compounds indicates a slight but regular increase in valency as the atomic number of the rare earth increases Ternary alloys prepared between the Laves phases of different structure types substantiate the observed valency trend

Rare Earths-Transition Metals-Boron Compounds Emil Burzo,2023-06-10 This book presents advances in the field of rare earth R transition metal M boron compounds with extensive references Since titanium and scandium do not form compounds with rare earths the Sc Ti M B series are additionally presented In each chapter the crystal structures the complex physical properties as determined from neutron diffraction magnetic measurements resonance studies transport properties and band structure calculations are critically analyzed The models used in describing the experimental evidence are also presented Tables with the main properties of the R M B compounds are given and representative data are illustrated in figures In this way the book provides state of the art knowledge and a valuable analysis of up to date results in the field The technical applications as permanent magnets thermoelectric and magnetocaloric devices hydrogen storage are also highlighted along with the authors insights into future directions in the field The book is of interest for scientists involved in the development of the field as well as those working in the technical uses of rare earth compounds

Nuclear Science Abstracts ,1976
The Rare Earth Elements David A. Atwood,2013-02-19 Lanthanides are of great importance for the electronic industries this new book from the EIBC Book Series provides a comprehensive coverage of the basic chemistry particularly inorganic chemistry of the lanthanoid elements those having a 4f shell of electrons A chapter is describing the similarity of the Group 3 elements Sc Y La the group from which the lanthanoids originate and the group 13 elements particularly aluminum having similar properties Inclusion of the group 3 and 13 elements demonstrates how the lanthanoid elements relate to other more common elements in the Periodic Table Beginning chapters describe the occurrence and mineralogy of the elements with a focus on structural features observed in compounds described in later chapters The majority of the chapters is organized by

the oxidation state of the elements Ln 0 Ln II Ln III and Ln IV Within this organization the chapters are further distinguished by type of compound inorganic oxides and hydroxides aqueous speciation halides alkoxides amides and thiolates and chelates and organometallic Concluding chapters deal with diverse and critically important applications of the lanthanoids in electronic and magnetic materials and medical imaging **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.),1975 Rare Earth Intermetallics W.E. Wallace,2012-12-02 Rare Earth Intermetallics provides an account of the magnetic characteristics of rare earth intermetallics This book discusses bulk magnetic characteristics such as temperature dependence of susceptibility saturation magnetization nature of the cooperative magnetic phase low temperature specific heats and related thermal properties Other topics include the magnetic interactions crystal field interaction by the operator equivalent method and rare earth nontransition metal systems The miscellaneous IVA compounds rare earth substitution variation in the iron moment and compounds with 4d and 5d transition metals are also elaborated in this text This publication is recommended for students and researchers interested in rare earth intermetallics

New Frontiers in Rare Earth Science and Applications Guangxian Xu,Jimei Xiao,1985 **Transition Metal and Rare Earth Compounds: Upconversion process in transition metal and rare earth metal systems** ,2001 **The 13th International Conference on Solid Compounds of Transition Elements** Riccardo Ferro,2001

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