1. Record Nr. UNINA9910462515903321

Titolo	Solid compounds of transition elements : selected, peer reviewed papers from the 17th International Conference on Solid Compounds of Transition Elements, (SCTE2010), September 5-10, 2010, Annecy, France / / edited by J.-L. Bobet, B. Chevalier and D. Fruchart
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , [2011] ©2011
ISBN	3-03813-509-7
Descrizione fisica	1 online resource (325 p.)
Collana	Solid state phenomena, , 1012-0394 ; ; volume 170
Altri autori (Persone)	BobetJ.-L ChevalierB FruchartD
Disciplina	541.0421
Soggetti	Solid state physics Transition metals 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	Solid Compounds of Transition Elements; Organisation Committee, Sponsors, Preface; Table of Contents; Influence of Co Moment on Magnetic Properties of Co2Sm2W3O14 Tungstate; Electrical Resistivity Anomalies in SbxVyMozOt Phases; Thermally Induced High-Spin Low-Spin Transition in Co[Cr0.5Ga1.5]S4 Spinel; The Atomic Site Occupancies in the Fe-Cr -Phase; New Ferromagnetic Chromium Chalcogenides, ACr5Te8 (A = K, Cs and Rb); Optical Characterization of Electronic Structure of CuInS2 and CuAlS2 Chalcopyrite Crystals; Structure and Magnetism of a Novel Nickel Sulfate Ni2-SO5 Deposition and Characterization of IrO2 Nanocrystals on Vertically Aligned Carbon Nanotubes by MOCVDElectronic and Magnetic Properties of Ternary Stannides RERhSn (RE = Tb, Dy and Ho); Growth and Characterization of Well-Aligned RuO2/R-TiO2 Heteronanostructures on Sapphire (100) Substrates by Reactive Magnetron Sputtering; Neutron Diffraction Study of the Kondo Systems Ce6Ni1.67Si3 and Ce5Ni1.85Si3; Superconductivity in Fluorine-

Arsenide Sr1-xNdxFeAsF; Phase Relation of FeS2-VS2 System and New Phase of Defect Troilite Structure
Mechanochemical Synthesis of Nanocrystalline (Fe,Co)34-Based Alloys and their Magnetic PropertiesA New Ternary Phase, Called LaCuMg8, for Solid Hydrogen Storage. Influence of Ball Milling and Cold Rolling; Magnetic Properties of the Gd1-xTbxNi3 Intermetallic Compounds; Magnetic Properties of Fe-Nb-B-Re (Re=Y, Gd) Bulk Nanocrystalline Alloys; Disorder-Sensitive Superconductivity and Bonding Network in the Iron-Silicide Superconductor Lu2Fe3Si5; Some Aspects of the Intercalation Chemistry of the Niobium and Tantalum Carbide Chalcogenides Nb2S2S, Ta2S2C and Ta2Se2C
Mossbauer and Magnetization Measurements of Al3Mn(Pd,Fe) CompoundsThermal Expansion of Oxyarsenides (LaO)TAs; T = Transition Metal; Anisotropy of Photoluminescence in Layered Semiconductors ReS2 and ReS2:Au; Amorphous Shell Formation on the Iron Particles during Mechanosynthesis in Fe2O3/Fe/(Ga,Al) Mixtures; Replacement of Vanadium by Ferrovanadium in Ti-Based BCC Alloys for Hydrogen Storage; Synthesis and Physical Properties of (NaxRE1-x) AlB14 (RE=Li, Mg, Rare Earths) Obtained by Molten Al Flux; Mossbauer Spectroscopic Analysis of Nd2Fe14B/-Fe Hard Magnetic Nanocomposites
Influence of Surface Active Substances on Magnetic Properties of Goethite Nanoparticles

Sommario/riassunto

This special collection gathers together the newest results on novel classes of materials which contain transition metals. It covers crystal chemistry, chemical bonding and electronic structure, magnetic and electron transport properties, thermo-electrics, hydrides, borides, carbides, silicides, germanides, pnictides, chalcogenides and complexes, metallic alloys and oxides. It will of interest to all those who work with transition metals. Review from Book News Inc.: The 63 papers report on such topics as synthesizing novel chromium oxide using a hydrothermal method and analyzing its magnet