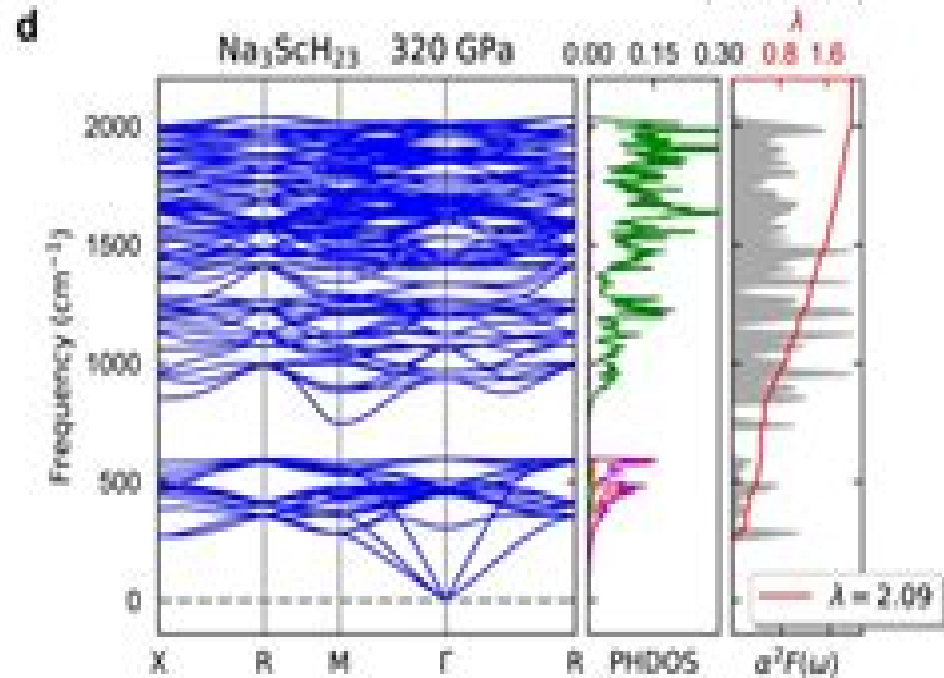
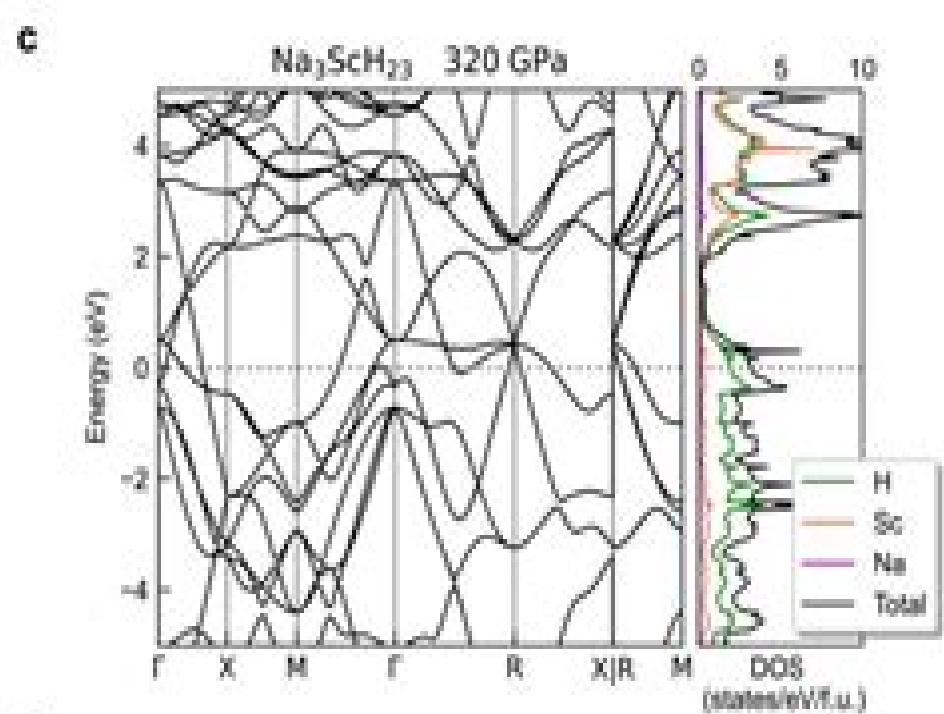
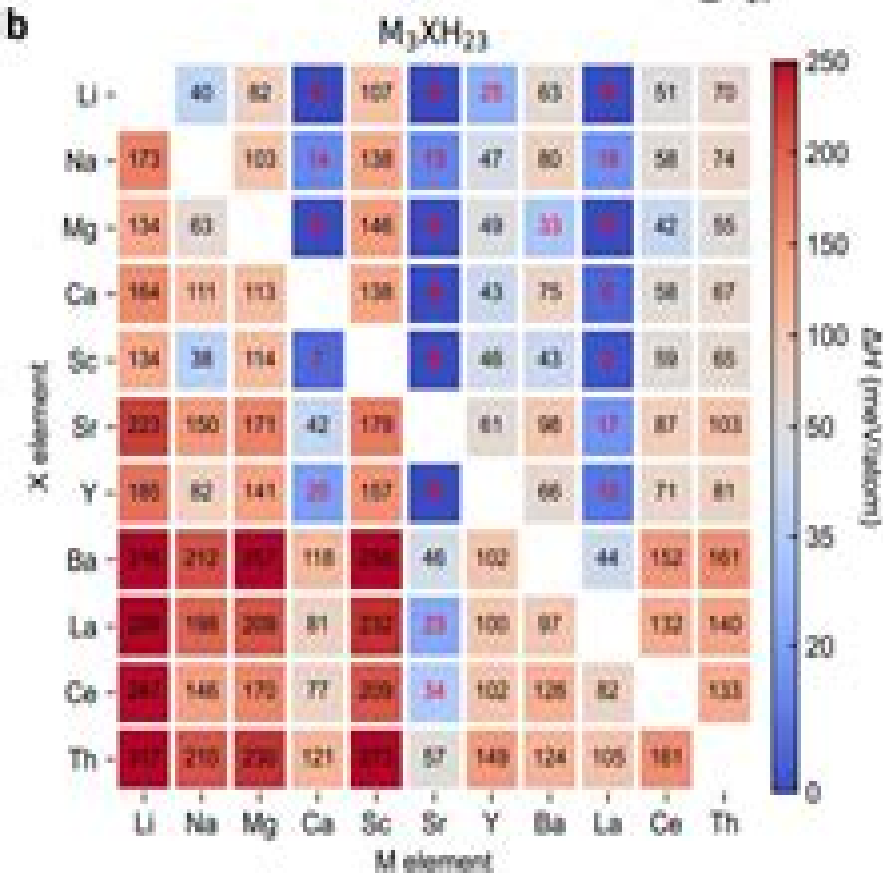
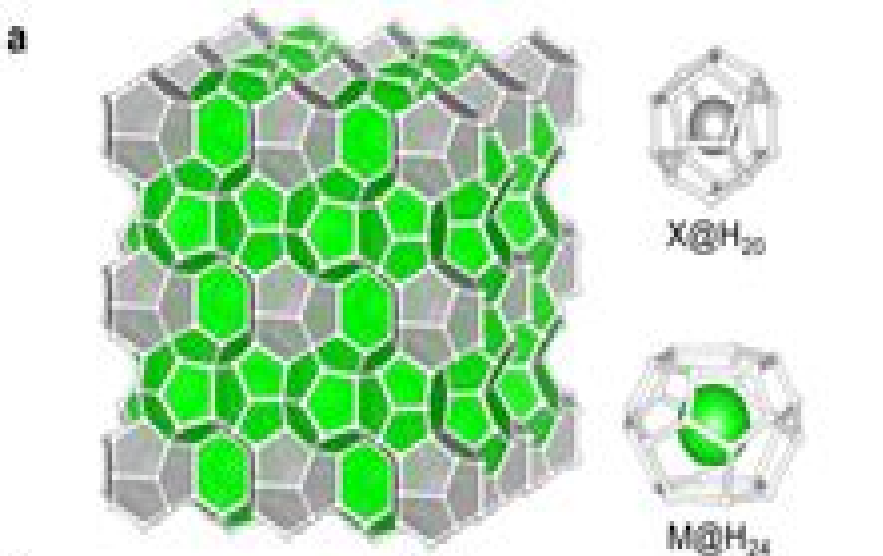




Ternary Superconductors

Anant Narlikar



Ternary Superconductors:

Superconductivity in Ternary Compounds II Merrill B. Maple, 2013-11-11 **Ternary Superconductors** Bobby David Dunlap, 1981 **Superconductivity in Ternary Compounds I** O. Fischer, L.B. Maple, 2012-12-06 The structural electronic and lattice properties of superconducting ternary compounds are the subject of this Topics volume Its companion volume Topics in Current Physics Volume 34 deals primarily with the mutual interaction of superconductivity and magnetism in ternary compounds These two volumes are the culmination of a project started nearly two years ago that was inspired by the intense research effort both experimental and theoretical then being expended to explore and develop an understanding of the remarkable physical properties of ternary superconductors Research activity on this subject has increased in the meantime The interest in ternary superconductors originated in 1972 when B T Matthias and his co-workers first discovered superconductivity in several ternary molybdenum sulfide compounds that had been synthesized in 1971 by R Chevrel M Sergent and J Prigent The superconducting critical temperature T_c of one of the compounds $PbMoS$ was reported to be 15 K This value is sufficiently high that there was good reason to expect that other ternary compounds would be found with superconducting transition temperatures rivaling those of the A15 compounds of which Nb₃Ge has the record high T_c of 23 K The interest in ternary superconductors received further impetus when several of the ternary molybdenum sulfides were found to have exceptionally high upper critical magnetic fields some of them in the neighborhood of 50 Tesla or more An immense amount of research on ternary molybdenum chalcogenides then followed **Superconductors** A. V. Narlikar, 2014-04-03 Superconductors is neither about basic aspects of superconductivity nor about its applications but its mainstay is superconducting materials Unusual and unconventional features of a large variety of novel superconductors are presented and their technological potential as practical superconductors assessed The book begins with an introduction to basic aspects of superconductivity The presentation is readily accessible to readers from a diverse range of scientific and technical disciplines such as metallurgy materials science materials engineering electronic and device engineering and chemistry The derivation of mathematical formulas and equations has been kept to a minimum and wherever necessary short appendices with essential mathematics have been added at the end of the text The book is not meant to serve as an encyclopaedia describing each and every superconductor that exists but focuses on important milestones in their exciting development *Handbook on the Physics and Chemistry of Rare Earths*, 2023-11-23 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 64 the latest release in this continuous series that covers all aspects of rare earth science including chemistry life sciences materials science and physics presents interesting chapters on a variety of topics with this release including sections on Structure and properties of $Ln_2M_3Ge_5$ compounds Giant magnetocaloric effect materials Lanthanide based single molecule magnets and Magnetic Refrigeration with Lanthanide Based Materials Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry

Contains individual chapters that are comprehensive and broad along with critical reviews Provides contributions from highly experienced invited experts **Ternary and Multinary Compounds** Satyendra K. Deb,Alex Zunger,1987 **Quaternary Borocarbides, Superconductors and Hg-based High Tc Superconductors** Anant Narlikar,1998 Nine technical papers devoted primarily to the carbides the discovery of which has been a major event in the field of superconductors during the past five years They also include some extended treatments and reviews relating to the mercury based highest temperature superconducting material discovered to date The specific topics include the discovery of the system the interrelation between magnetism and superconductivity the dependency of superconductivity and magnetism on material parameters properties of the thin films synthesizing and characterizing the intermetallic compound and what the magnetic properties of mercury cuprate high temperature superconductors reveal Reproduced from typescripts Annotation copyrighted by Book News Inc Portland OR **Library of Congress Subject Headings** Library of Congress,1992 **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy,1992 **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office,2009

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