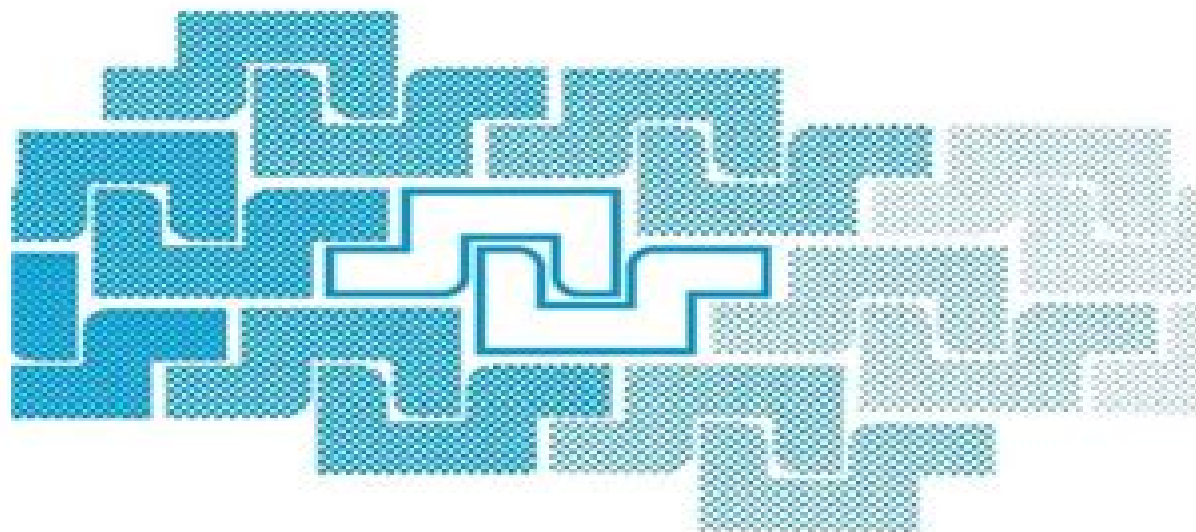




Solid State Astrochemistry

Edited by

Valerio Pirronello, Jacek Krelowski
and Giulio Manicò

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Solid State Astrochemistry

J. M. T. Thompson



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The Chemistry of Cosmic Dust David A Williams, Cesare Cecchi-Pestellini, 2015-11-18 It has been firmly established over the last quarter century that cosmic dust plays important roles in astrochemistry The consequences of these roles affect the formation of planets stars and even galaxies Cosmic dust has been a controversial topic but there is now a considerable measure of agreement as to its nature and roles in astronomy and its initiation of astrobiology The subject has stimulated an enormous research effort with researchers in many countries now involved in laboratory research and in ab initio computations This is the first book devoted to a study of the chemistry of cosmic dust presenting current thinking on the subject distilled from many publications in surface and solid state science and in astronomy The authors discuss the nature of dust its formation and evolution the chemistry it can promote on its surfaces and the consequences of these functions The purpose of this book is to review current understanding and to indicate where future work is required Mainly intended for researchers in the field of astrochemistry the book could also be used as the basis of a course for postgraduate students who have an interest in astrochemistry

Dynamical Astrochemistry David A Williams, Thomas W Hartquist, Jonathan M C Rawlings, Cesare Cecchi-Pestellini, Serena Viti, 2017-12-14 Written by leading

experts in this area this is the first book specifically devoted to the astrochemistry of dynamically evolving astronomical regions Laboratory Surface and Solid State Astrochemistry of Biomolecular Precursors on Grain Mimics Ali Ghith Moussa Abdulgalil, 2013 *Proceedings of the Dalgarno Celebratory Symposium* A. Dalgarno, Kata Kirby, 2010 On September 10 2008 more than 125 friends colleagues to join Professor Alex Dalgarno in celebrating his 80th birthday A symposium highlighting Dalgarno's many scientific contributions Preface *Advances in Astronomy* J. M. T. Thompson, 2005 In this highly accessible book leading scientists from around the world give a general overview of research advances in their subject areas within the field of Astronomy They describe some of their own cutting edge research and give their visions of the future Re-written in a popular and well illustrated style the articles are mainly derived from scholarly and authoritative papers published in special issues of the Royal Society OCOs Philosophical Transactions the world OCOs longest running scientific journal Carefully selected by the journal OCOs editor topics include the Big Bang creation of the universe the formation and evolution of the stars and galaxies cold dark matter explosive sun spot events and humankind OCOs exploration of the solar system The book conveys the excitement and enthusiasm of the authors for their work at the frontiers of astronomy All are definitive reviews for people with a general interest in the future directions of science Biochirality Pedro Cintas, 2014-07-08 Early History of the Recognition of Molecular Biochirality by Joseph Gal Pedro Cintas Synthesis and Chirality of Amino Acids Under Interstellar Conditions by Chaitanya Giri Fred Goesmann Cornelia Meinert Amanda C Evans Uwe J Meierhenrich Chemical and Physical Models for the Emergence of Biological Homochirality by son E Hein Dragos Gherase Donna G Blackmond Biomolecules at Interfaces Chiral Naturally by Ar ntzazu Gonz lez Campo and David B Amabilino Stochastic Mirror Symmetry Breaking Theoretical Models and Simulation of Experiments by Celia Blanco David Hochberg Self Assembly of Dendritic Dipeptides as a Model of Chiral Selection in Primitive Biological Systems by Brad M Rosen C cile Roche Virgil Percec Chirality and Protein Biosynthesis by Sindrila Dutta Banik Nilashis Nandi

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