



# Polycyclic Aromatic Hydrocarbons and Astrophysics

edited by A. Léger, L. d'Hendecourt and N. Boccara

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# Polycyclic Aromatic Hydrocarbons And Astrophysics

**E. Bussoletti, C. Fusco, G. Longo**



## Polycyclic Aromatic Hydrocarbons And Astrophysics:

**Polycyclic Aromatic Hydrocarbons and Astrophysics** A. Léger, L. D'Hendecourt, N. Boccara, 2012-12-06 The near Infra Red emission of the Interstellar Medium is a very puzzling subject In the brightest regions where spectroscopic observations are possible from the ground several bands 3 3 3 4 6 2 7 7 8 6 11 3  $\mu\text{m}$  have been observed since 1973 The absence of satisfying explanation was so obvious that they were called Unidentified IR Emission Bands The puzzle still increased when were known the first results of the general IR sky survey made by the satellite IRAS On a large scale the near IR emission of the Interstellar medium was expected to be very small but it was observed to be about one third of the total IR emission for our own galaxy The situation has moved in 1984 when it was suggested that a class of stable organic molecules the Polycyclic Aromatic Hydrocarbons PAHs could be at the origin of this near IR emission Initially based on the required refractory character of particules that should be heated to high temperature without subliming this hypothesis leads to a suggestive spectroscopic similarity with the observed astronomical bands This hypothesis is attractive and it has many implications for instance the PAHs would be the most abundant organic molecules in the universe However many points have to be clarified and the different consequences of this suggestion should be explored *Large ( $C \geq 24$ ) Polycyclic Aromatic Hydrocarbons* John C. Fetzer, 2000-08-28 Polycyclic aromatic hydrocarbons PAHs are the first type of chemicals that were ever discovered to cause cancer in humans They are found in cigarette smoke in barbecued and smoked foods in automobile and Diesel engine exhaust fireplace smoke and many other common things that people are exposed to Analyzing for PAHs in the environment is important in identifying potential sources of cancer exposure and eliminating these as risks The smaller PAHs those of lower than 300 molecular weight have been the most studied and have also been covered in several books No books have dealt with the analysis of the larger PAHs These compounds are not only important for the health concerns but they are also of current technological and scientific interest *Electronic and nuclear quantum dynamics of molecules in intense laser fields* Yuichi Fujimura, Andre Bandrauk, Leticia González, 2023-04-28 *Literature 1987, Part 1* S. Böhme, U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 43 records literature published in 1987 and received before August 15 1987 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was

done by our technical staff members Ms Helga Ballmann Ms Beate Gobel Ms Monika Kohl Ms Sylvia Matyssek Ms Doris Schmitz Braunstein Ms Uta Barbara Stegemann Mr Jochen Heidt and Mr Kristopher Polzine supported our task by careful proof reading It is a pleasure to thank them all for their encouragement Heidelberg October 1987 The Editors Contents Introduction 1 Concordance Relation PHYS AAA 3 Abbreviations 5 Periodicals Proceedings Books Activities 001 Periodicals 10 002 Bibliographical Publications Documentation Catalogues Data Bases 50 003 Books

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*Astromineralogy* Thomas Henning,2008-01-11 *Astromineralogy* deals with the science of gathering mineralogical information from the astronomical spectroscopy of asteroids comets and dust in the circumstellar environments in general It is only recently however that this field has received a tremendous boost with the reliable identification of minerals by the Infrared Space Observatory This book is the first comprehensive and coherent account of this exciting field Beyond addressing the specialist in the field the book is intended as a high level but readable introduction to astromineralogy for both the nonspecialist researcher and the advanced student

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**Astrochemical Studies of Polycyclic Aromatic Hydrocarbons and Fullerenes** Jamie Elizabeth Elsila,2004

*Cyclic Hydrocarbons—Advances in Research and Application: 2012 Edition* ,2012-12-26 *Cyclic*

Hydrocarbons Advances in Research and Application 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Cyclic Hydrocarbons in a concise format The editors have built Cyclic Hydrocarbons Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Cyclic Hydrocarbons in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Cyclic Hydrocarbons Advances in Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

The Physics and Chemistry of the Interstellar Medium A. G. G. M. Tielens, 2005-08-25 This work provides a comprehensive overview of our theoretical and observational understanding of the interstellar medium of galaxies With emphasis on the microscopic physical and chemical processes in space and their influence on the macroscopic structure of the interstellar medium of galaxies the book includes developments in this area of molecular astrophysics The various heating cooling and chemical processes relevant for the rarefied gas and submicron sized dust grains that constitute the interstellar medium are discussed in detail This provides a firm foundation for an in depth understanding of the ionized neutral atomic and molecular phases of the interstellar medium The physical and chemical properties of large polycyclic aromatic hydrocarbon molecules and their role in the interstellar medium are highlighted and the physics and chemistry of warm and dense photodissociation regions are discussed This is an invaluable reference source for advanced undergraduate and graduate students and research scientists

*Planetary and Proto-Planetary Nebulae: From IRAS to ISO* Andrea Preite Martinez, 2012-12-06 There are two questions that we can ask ourselves in order to describe this workshop The first question is a double question why a conference on this subject and why a workshop The first idea of organizing this workshop came while reading the scientific objectives of one of the instruments onboard the ISO satellite a phase A document concerning the IR camera On going through the scientific motivations for building the instrument I realized with surprise that no mention was made of Planetary Nebulae PN At present this is no longer true There is a chapter indicating the capabilities of the camera in the PN field and what we can reasonably expect from that instrument But it was at this moment that the first idea of organizing a workshop on the subject of PN came Of course there are other stronger motivations The first one is that I think this is the right moment after IRAS I think we all spent the last two or three years working on IRAS data IRAS represented a corner stone for those working on Planetary Nebulae the amount of data that came out of the instruments onboard the satellite was enormous and opened up new ways of looking at planetary nebulae as well as at other fields

*Characterization of Polycyclic Aromatic Hydrocarbons in Geochemical Materials by Two-step Laser Mass Spectrometry* Michael Richardson Wing, 1991

**Interstellar Matter** James

M. Moran, Paul T. P. Ho, 1988      **Issues in Astronomy and Astrophysics: 2011 Edition**, 2012-01-09 Issues in Astronomy and Astrophysics 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Astronomy and Astrophysics The editors have built Issues in Astronomy and Astrophysics 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Astronomy and Astrophysics in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Astronomy and Astrophysics 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>      Physics and Chemistry of the Interstellar Medium Sun Kwok, 2007-01-30 This book goes beyond a phenomenological study to present a detailed quantitative treatment of the dynamic interactions between stars and interstellar matter Emphasizing a practical understanding of these processes the text is interlaced with mathematical derivations that are understandable by anyone with an undergraduate background in Physics      *NASA Technical Memorandum*, 1992      Dusty Objects in the Universe E. Bussolletti, Alberto A. Vittone, 2012-12-06 Solid matter in space is crucial in accounting for many processes In these last years a great improvement of the general knowledge of the problem has been possible due to the increase in number and quality of observations and of the laboratory efforts to simulate cosmic dust Theoreticians have also given their contribution in solving some questions and in posing others Continuing an effort started in 1987 the Astrophysical Groups operating in Naples have considered it useful to organize a Workshop in Capri from September 8 to 13 1989 in order to assess the state of the art in such an interesting field as that of Dusty Objects in the Universe The subject is obviously too wide to be discussed in detail However the presence of many experts in different areas provided an updated general picture Laboratory work has been reviewed as well as recent observations and theoretical interpretations which concern processes occurring in our Galaxy and in external galaxies The Workshop gave to participants the unique opportunity of exchanging ideas and of discussing on different themes In addition the meeting has been enriched by the presentation of the major technological projects related to ongoing airborne and space missions the aim of giving the state of the art about specific Invited papers were prepared with subjects contributed papers and some selected poster papers presented on the contrary the various fields      *Experiments on Cosmic Dust Analogues* E. Bussolletti, C. Fusco, G. Longo, 2012-12-06 Astrophysical analysis relating to solid matter requires data on properties and processes Such data however especially appropriate to space conditions are mostly lacking It appeared then very tempting to gather together experimentalists observers and theoreticians working in the field of cosmic dust and in related areas The Workshop held in Capri Italy from September 8th till 12th 1987 gave the participants a unique opportunity for exchange of ideas and discussions of problems and experimental procedures Introductory reports were

prepared with the aim of giving the state of the art about single subjects contributed poster papers presented on the contrary very recent results in the various fields According to his specific interest each attendant has also contributed to three Working Groups respectively on a carbon b silicates c ice and related topics Scientific and technical problems about these items were discussed in great detail Though no definite answers were given useful indications come out which will be of some help for future works In addition to the scientific efforts the Capodimonte Observatory and the Istituto Universitario Navale sought to give a warm welcome to the participants Thanks to several sponsors the LOC could organize some excursions and shows to entertain people during their spare time

*New Frontiers in Nanochemistry: Concepts, Theories, and Trends* Mihai Putz, 2020-05-06 New Frontiers in Nanochemistry Concepts Theories and Trends Volume 2 Topological Nanochemistry is the second of the new three volume set that explains and explores the important basic and advanced modern concepts in multidisciplinary chemistry Under the broad expertise of the editor this second volume explores the rich research areas of nanochemistry with a specific focus on the design and control of nanotechnology by structural and reactive topology The objective of this particular volume is to emphasize the application of nanochemistry With 46 entries from eminent international scientists and scholars the content in this volume spans concepts from A to Z from entries on the atom bond connectivity index to the Zagreb indices from connectivity to vapor phase epitaxy and from fullerenes to topological reactivity and much more The definitions within the text are accompanied by brief but comprehensive explicative essays as well as figures tables etc providing a holistic understanding of the concepts presented

European Conference on Laboratory Astrophysics ECLA2020 Vito Mennella, Christine Joblin, 2023-09-12 This volume contains the proceedings of a conference on laboratory astrophysics which gathered a broad interdisciplinary community of astrophysicists physicists chemists and geophysicists It provides an update on outstanding results in this research field the presentation of new laboratory developments and the recent and expected to come space missions and other astronomical observatories with their specific needs for laboratory and theoretical studies Understanding the interplay between dust ice and gas during the star lifecycle as well as in planet forming regions and the Solar System is a vast topic in relation with space exploration and astronomical observations It also strongly relies on laboratory astrophysics activities and chemical modelling in order to simulate the formation and evolution of matter in space This book provides researchers and graduate students with a valuable account of the current state of this fascinating discipline

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