1. Record Nr. UNINA9910451954503321

Titolo	The limits of organic life in planetary systems [[electronic resource] /] / Committee on the Limits of Organic Life in Planetary Systems, Committee on the Origins and Evolution of Life ; Space Studies Board, Division on Engineering and Physical Sciences ; Board on Life Sciences, Division on Earth and Life Sciences ; National Research Council of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, c2007
ISBN	1-280-93469-7 9786610934690 0-309-66906-5
Descrizione fisica	1 online resource (116 p.)
Disciplina	576.8/39
Soggetti	Life on other planets Space environment Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	""Front matter ""; ""Preface""; ""Acknowledgments""; ""Contents""; ""Executive Summary""; ""1 Introduction""; ""2 A Sketch of the Chemistry Behind Known Carbon-based Life on Earth""; ""3 Pushing the Boundaries of Life""; ""4 Alternatives to Terran Biochemistry in Water""; ""5 Origin of Life""; ""6 Why Water? Toward More Exotic Habitats""; ""7 Life Detection and Biomarkers""; ""8 Conclusions and Recommendations""; ""Appendixes""; ""A Glossary""; ""B Biographies of Committee Members and Staff""

2. Record Nr. UNINA9910806183603321

Titolo	Signs of life : a report based on the April 2000 workshop on life detection techniques / / Committee on the Origins and Evolution of Life, Space Studies Board, Division on Engineering and Physical Sciences, Board on Life Sciences, Division on Earth and Life Studies, National Research Council of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, c2002
ISBN	0-309-17012-5 1-280-20952-6 9786610209521 0-309-50944-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (162 p.)
Soggetti	Life - Origin Life on other planets Space biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Matter -- Preface -- Contents -- Executive Summary -- 1 Detection of Life -- 2 Sample Return -- 3 Detecting Extant Life -- 4 Detecting Extinct Life -- 5 Conclusions and Recommendations -- A Glossary and Acronyms -- B Workshop Agenda -- C Workshop Papers -- Session 1: Introduction to the Detection of Life -- HISTORY OF LIFE DETECTION APPROACHES -- NATURE OF BIOCHEMISTRY IN THE UNIVERSE -- CHANCE AND NECESSITY IN BIOMOLECULAR CHEMISTRY: IS LIFE AS WE KNOW IT UNIVERSAL? -- SELF-ASSEMBLY PROCESSES: STEPS TOWARD LIFE'S ORIGINS -- DETECTING LIFE ON EXTRASOLAR PLANETS -- REFERENCES FOR PAPERS IN SESSION 1 -- Session 2: Sample Return -- SAMPLE RETURN FROM PRIMITIVE BODIES -- MARS SAMPLE RETURN: LIFE DETECTION AT ALL LEVELS -- SEARCHING FOR LIFE ON EUROPA FROM A SPACECRAFT LANDER -- SAMPLE RETURN FROM TITAN FOR EXOBIOLOGY -- PLANETARY QUARANTINE -- REFERENCES FOR PAPERS IN SESSION 2 -- Session 3: Detecting Extant

Life -- X-RAY MICROSCOPY AND THE DETECTION OF LIFE -- CHARACTERIZING THE INTACT MICROBE-MINERAL INTERFACE -- SINGLE-POLYMER MODEL DETECTION USING NANOPORES -- EXTANT LIFE DETECTION USING STABLE ISOTOPES AND PROTEIN-CHIP TECHNOLOGY -- IRON BIOMINERALS AS BIOMARKERS -- TIME-OF-FLIGHT MASS SPECTROMETERS: MINIATURIZED INSTRUMENTS WITH A BIOLOGICAL MASS RANGE -- LIFE DETECTION USING MOLECULAR METHODS -- REFERENCES FOR PAPERS IN SESSION 3.