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URL http://www.psrd.hawaii.edu/PSRDglossary.html

Subject Astronomy -Dictionaries

Accessibility Free

Language English

Publisher Supported by NASA's Science Mission Directorate Cosmochemistry

Program and Hawai'i Space Grant Consortium.

Brief History Work on PSRD started in September, 1996. The first articles were posted in

October, 1996. In February, 2001 PSRD moved to its current address: www.psrd.hawaii.edu. In mid-2010 it reviewed the old legacy HTML

originally intended for the very first web browsers and updated the site with a custom search engine and new design using current web standards and best practices. Additional resources are added as needed. Present copyright date is available i.e. 2016.

Scope and Coverage

PSRD is a dynamic website covering hot topics in cosmochemistry and planetary sciences. Cosmochemistry is an interdisciplinary science that overlaps with geochemistry, geology, astronomy, astrophysics, and geophysics to discover the materials and fundamental processes in the solar nebula and our solar system. These sciences give one the complementary ways of looking at the origins of the living entities by addressing questions such as, How did the Sun and planets form? Where did living beings come from? Cosmochemistry is a careful examination of the building blocks of the cosmos, and will play an important role to develop local resources on the Moon, Mars, and asteroids, essential to sustained human presence in space.

Kind of Information

Definitions, descriptions, measurement, notable dates related with the terms etc. are given along with the terms. See references are also provided. Provision for getting further information on a particular term is also incorporated. Some examples are given below for clear understanding.

Andesite: Dark-colored, fine-grained extrusive igneous rock with about 52 to 63 weight percent silica (SiO₂). Andesite consists mainly of plagioclase and one or more mafic minerals. The word andesite is derived from the Andes Mountains, located along the western edge of South America, where andesite rock is common.

Mars Odyssey: U. S. orbital mission to Mars, part of NASA's Mars Exploration Program, launched in April, 2001 and arrived at Mars in October, 2001. The mission's goals are to map chemical elements and minerals, look for water, and analyze the low-orbit radiation environment using three primary instruments: Thermal Emission Imaging System (THEMIS), Gamma Ray Spectrometer (GRS), and Mars Radiation Environment Experiment (MARIE). During and after its science mission, the Odyssey orbiter will also support other missions in the Mars Exploration program. It is providing communications relay for U.S. and international landers, including the Mars Exploration Rovers launched in June and July, 2003. 2001 Mars Odyssey website.

Link for further information

Ordinary chondrite: The most common class of meteorite to fall on Earth. They contain variable amounts of metal and chondrules in a matrix of mostly silicate minerals. *See chondrite*.

See reference

Special Features

❖ The PSRD website provides a comprehensive archive that contains various articles with coloured and black and white illustrations (sometimes some pictures directly taken by the satellites), graphics, animations, charts, graphs, pdf versions for easier printing, short slide summaries of articles on various celestial bodies and missions.

- * CosmoSparks reports, news links, subscription service etc. are also available.
- ❖ Links to RSS feed, social-media sharing links (Facebook, Twitter, Pinterest etc.) and comments page.
- ❖ The Headline article of the month is shown on the homepage of PSRD and all the articles and reports from the entire collection are available in the archive. One should use the navigation links on the page tops or bottoms to move throughout the website.

Arrangement Pattern

Alphabetical arrangement of terms is conspicuous by its presence. For example under the alphabet "A" Accretion, Achondrite, AGB stars, Agglutinates etc. are arranged in alphabetic order.

Remarks

Planetary Science Research Discoveries (PSRD) is an educational site sharing the latest research by NASA-sponsored scientists on meteorites, asteroids, planets, moons, and other materials in our Solar System. PSRD makes every effort to bring the current and accurate information to the readers. Each article is reviewed by appropriate researchers before being released to the general public. Some information accessed through the PSRD website may be preliminary. The coverage of the dictionary may not be very vast but in gaining brief but instant idea regarding planetary sciences this dictionary plays an undeniable role.

Comparable Tools

- Oxford Dictionary of Astronomy
 (http://www.oxfordreference.com/view/10.1093/acref/97801996090

 55.001.0001/acref-9780199609055)
- ➤ Astronomical Dictionary Contents
 (http://www.astrodictionary.chevinside.com/dictionarycontents.htm)

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