

These objects are remnants of the planetesimal disk, the primordial material from which the solar system formed over 4.5 billion years ago. Their small size, extreme distance, and low ...

University of Central Florida (UCF) scientists and their collaborators discovered new insights into the formation of distant icy objects in space beyond Neptune, offering a deeper ...

Scientists are now using Webb to conduct detailed investigations of terrestrial Mars, gas giants Jupiter and Saturn, and ice giants Uranus and Neptune. Webb is also setting its sights on ...

Visualize orbits, relative positions and movements of the Solar System objects in an interactive 3D Solar System viewer and simulator.

JWST's extraordinary sensitivity and instrumentation allow for sensitive searches for the building blocks of life and to test for habitability, also enabling new discoveries on small bodies to...

The favoured theory proposes that the solar system formed from a solar nebula, where the Sun was born out of a concentration of kinetic energy and heat at the centre, while debris rotating ...

SST, or Solar Telescope, is defined as a specialized telescope designed for high-resolution observation of the Sun, featuring a 1-meter aperture and high polarimetric accuracy, operating within the spectral ...

Overview
Definition
Formation and evolution
General characteristics
Sun
Inner Solar System
Outer Solar System
Trans-Neptunian region
The Solar System is the gravitationally bound system of the Sun and the masses that orbit it, most prominently its eight planets, of which Earth is one. The system formed about 4.6 billion years ago when a dense region of a molecular cloud collapsed, creating the Sun and a protoplanetary disc from which the orbiting bodies assembled. Inside the Sun's core hydrogen is fused into helium for billions of years, releasing energy which i...

Elevation drive system: The telescope need to be driven about the elevation axis to get the required altitude pointing. It is proposed to be driven by a servo controlled motor and the bearings are ...

Explore the 3D world of the Solar System. Learn about past and future missions.

Inside the Sun's core hydrogen is fused into helium for billions of years, releasing energy which is over even longer periods of time emitted through the Sun's outer layer, the photosphere. This creates the ...

Web: <https://www.scmindustries.co.za>