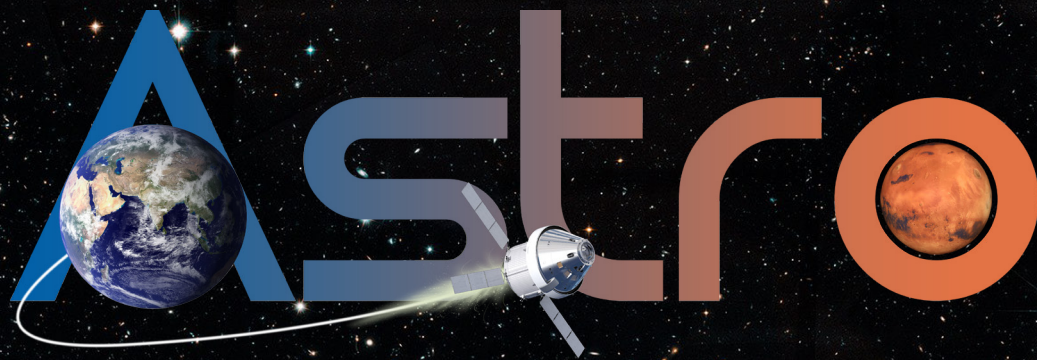


#StayHome



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Biohybrid Can Turn CO₂ Into New Products

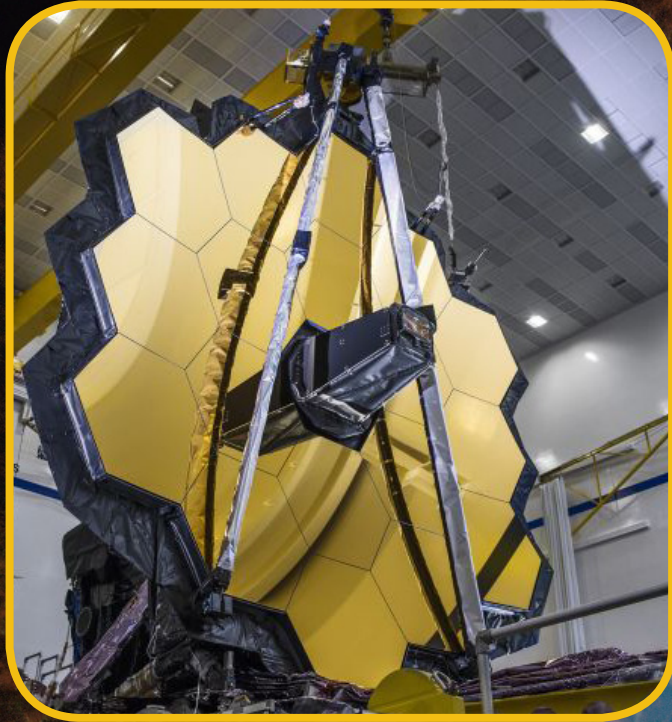
If humans ever hope to colonize Mars, the settlers will need to manufacture on-planet a huge range of organic compounds, from fuels to drugs, that are too expensive to ship from Earth. For the past eight years, the researchers have been working on a hybrid system combining bacteria and nanowires that can capture the energy of sunlight to convert carbon dioxide and water into building blocks for organic molecules. Nanowires are thin silicon wires about one-hundredth the width of a human hair, used as electronic components, and also as sensors and solar cells.

Technology.org

#STAYHOME

COVID-19
Please stay at home
unless absolutely
necessary.

NASA's James Webb Space Telescope Unfold Its Golden Mirror for the 1st Time



NASA's next great observatory, the James Webb Space Telescope, has fully deployed its primary mirror for the first time, marking another milestone on its journey to space. Before all work on the next-generation instrument, which is scheduled to launch in 2021, was paused due to the COVID-19 pandemic, technicians and engineers at the agency were going through a series of tests with the telescope before it's sent to French Guiana for liftoff aboard an Ariane 5 rocket.

Space.com

SpaceX Almost Ready to Start Testing Third Starship Prototype

For almost a year now, SpaceX has been building a series of Starship prototypes that will test how the system fares when launched to orbit. Coming on the heels of successful hop tests with the Starship Hopper, these tests will validate the spacecraft and its Raptor engines in space. Unfortunately, the company has encountered some hiccups with these prototypes, as the first two exploded during pressure testing. Best of luck to you Starship 3! We look forward to seeing you make that hop test and return safely to Earth. If all goes well, we look forward to seeing Starship 4 reach orbit, too!



Phys.org

SpaceX Simulate Upcoming Crew Mission with Astronauts



Joint teams from NASA and SpaceX continue making progress on the first flight test with astronauts to the International Space Station by completing a series of mission simulations from launch to landing. The mission, known as Demo-2, is a close mirror of the company's uncrewed flight test to station in March 2019, but this time with NASA astronauts Bob Behnken and Doug Hurley aboard the Crew Dragon spacecraft launching atop a Falcon 9 rocket as part of NASA's Commercial Crew Program (CCP).

SpaceDaily.com

Astronomers Announce 100 New Minor Planets Beyond Neptune

Objects like Haumea, depicted above, are minor planets, called trans-Neptunian objects, or TNOs. They orbit in the cold outer reaches of our solar system, out beyond Neptune, taking hundreds of years to orbit the sun once. There are estimated to be perhaps 70,000 TNOs, each at least 60 miles (100 km) across. This month, astronomers at the University of Pennsylvania announced that they've successfully pinpointed over 100 new TNOs.



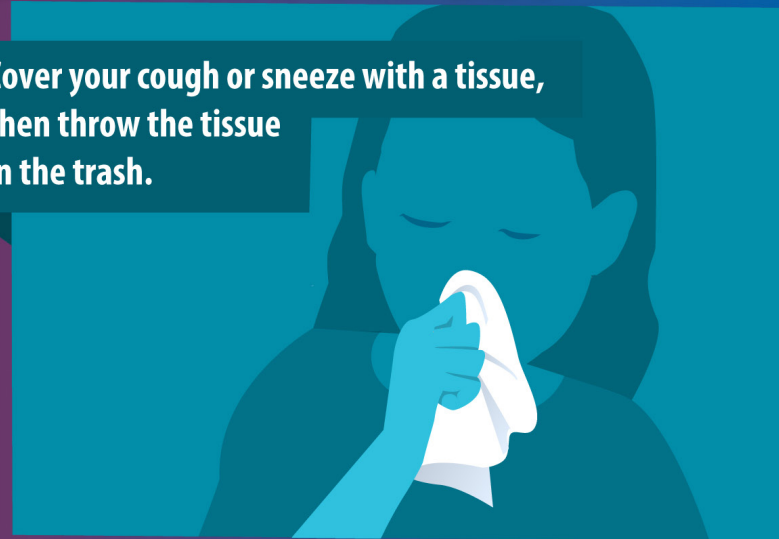
EarthSky.org

How to Protect Ourselves?

Avoid close contact with people who are sick.



Cover your cough or sneeze with a tissue, then throw the tissue in the trash.



Avoid touching your eyes, nose, and mouth.



Clean and disinfect frequently touched objects and surfaces.

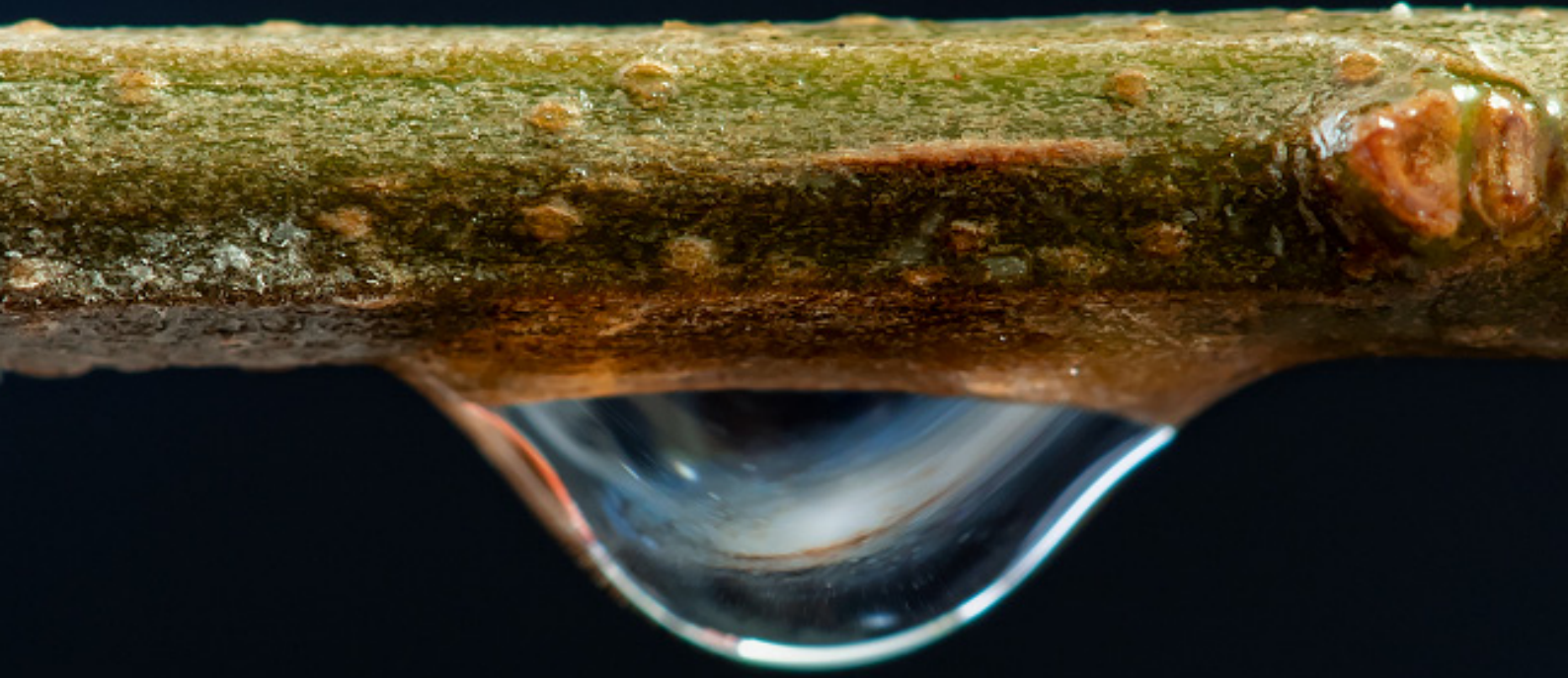


Stay home when you are sick, except to get medical care.



Wash your hands often with soap and water for at least 20 seconds.





Astronomy Picture of the Day

A Little Drop of Galaxy

Image Credit & Copyright: Massimo Tamajo

A drop of water seems to hold an entire galaxy in this creative macro-astrophotograph. In the imaginative work of cosmic nature photography a close-up lens was used to image a previously made picture of a galaxy, viewed through a water drop suspended from a stem. A favorite of many telescope-wielding astroimagers, the galaxy is the Andromeda Galaxy, also known as M31. About 100,000 light-years across that majestic galaxy's spiral arms and dust lanes are curved and distorted in the image contained in the centimeter-sized droplet. Andromeda is some 2.5 million light-years distant, but this project was still carried out while spending time indoors.

apod.nasa.gov



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