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CONTENTS









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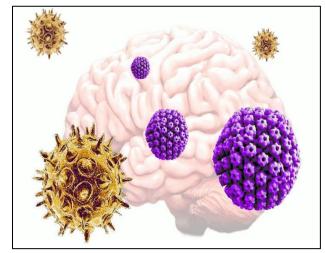




Common viruses may be triggering Alzheimer's disease.

(July 31, 2022)

Alzheimer's disease is the most common cause of dementia in older adults and the 7th leading cause of death in the United States, according to the National Institute on Aging. Recently, researchers using a three-dimensional human tissue culture model mimicking the brain, have shown that varicella zoster virus (VZV), which commonly causes chickenpox and shingles, may activate herpes simplex (HSV), another common virus, to set in motion the early stages of Alzheimer's disease.



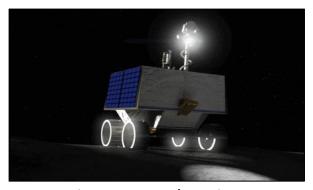
Credit: Tufts University

Read more at:

https://scitechdaily.com/common-viruses-may-be-triggering-alzheimers-disease/

NASA's VIPER Lunar Rover prototype motors through Moon-like obstacle course.

(August 2, 2022)



Credit: NASA Ames/Daniel Rutter

NASA's Volatiles Investigating Polar Exploration Rover (VIPER) prototype recently endured the most realistic tests to date of its ability to drive through the most challenging terrain during its mission to the Moon's South Pole. Engineers put the latest VIPER mobility engineering test unit, known as Moon Gravitation Representative Unit 3. MGRU3 features motor controllers specially designed for the Moon rover. It is

a critical piece of hardware in the rover's mobility system that controls the motors that send power to the rover's four wheels.

Read more at:

https://scitechdaily.com/nasas-viper-lunar-rover-prototype-motors-through-moon-like-obstacle-course/

First treatment for a rare form of cancer discovered.

(August 3, 2022)

Researchers provide the first evidence that ChRCC can be treated with ferroptosis in a study headed by Brigham and Women's Hospital researchers. By depriving ChRCC cells of cysteine, the team was able to induce ferroptosis, and they discovered evidence that this approach would be useful in the treatment of ChRCC. The scientists said that this is an important breakthrough in the understanding of treatment for patients with this rare disease.

Read more at:

https://scitechdaily.com/first-treatment-for-a-rare-form-of-cancer-discovered/

James Webb Space Telescope Captures the Planet Jupiter in Its Infrared Gaze

(August 4, 2022)



Credit: NASA, ESA, CSA, and B. Holler and J. Stansberry

After the recent release of the first images from NASA's James Webb Space Telescope, data from the telescope's commissioning period is now being released on the Space Telescope Science Institute's Mikulski Archive for Space Telescopes. The data includes images of Jupiter and images and spectra of several asteroids. They were captured to test the telescope's instruments before science operations officially began July 12. Webb's ability to track solar system targets and produce images and spectra with unprecedented detail is demonstrated in the data.

Read more at:

https://scitechdaily.com/james-webb-space-telescope-captures-the-planet-jupiter-in-its-infrared-gaze/



ARTS



Iconic Tripura palace to be turned into museum celebrating royal history, Tagore links.

(July 31, 2022)



Credit: Getty Images

The century-old iconic Pushpabanta Palace, built by an erstwhile Maharaja of Tripura, is being developed as a national-level museum and cultural centre. State Tourism Minister Pranajit Sinha Roy said Rs 40.13 crore has been sanctioned to develop the heritage structure as Maharaja Birendra Kishore Manikya Museum and Cultural Centre. It would showcase the rich heritage of northeastern states, Southeast Asian fine arts, contemporary photography.

Read more at:

https://indianexpress.com/article/lifestyle/art-and-culture/iconic-tripura-palace-to-be-turned-into-museum-celebrating-royal-history-tagore-links-8062551/

From crochet to kalamkari, an intersection of art and craft.

(August 1, 2022)

Artworks made using bamboo, crochet, beads, hand-painted kalamkari and crochet greet visitors at Dhi Artspace, Hyderabad. The exhibition, titled Crafting the Crossroad, is an attempt to use craft as fine art. In the process, the five participating artists attempt to address questions of identity as well as showcase the history and cultural context of the craft. Curated by Somedutta Mallik, the exhibition puts the spotlight on the work of many famous artists.



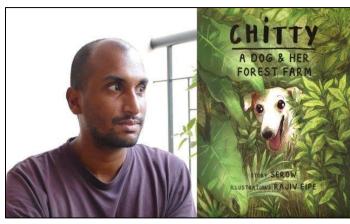
Credit: The Hindu

Read more at:

https://www.thehindu.com/entertainment/art/from-crochet-to-kalamkari-an-intersection-of-art-and-craft/article65702222.ece

Rajiv Eipe on winning the first Mehlli Gobhai Children's Book Illustrator Award.

(August 2, 2022)



Credit: Firstpost

Rajiv Eipe, is the winner of the first Mehlli Gobhai Children's Book Illustrator Award. The announcement was made by the MCubed Library in Mumbai on their Facebook page. Eipe won it for illustrating the book Chitty: A Dog and Her Forest Farm, written by Serow and published by Kalpavriksh — a non-profit organization working on environmental and social issues. Eipe spoke to *Firstpost* about working on this book, his fondness for animals, and his illustrious career as an illustrator.

Read more at:

https://www.firstpost.com/art-and-culture/rajiv-eipe-on-winning-the-first-mehlli-gobhai-childrens-book-illustrator-award-10999381.html

HMIF introduces 'Mobile Youth Library and Science Lab' program to empower the unprivileged.

(August 4, 2022)

Hyundai Motor India Foundation (HMIF), the philanthropic arm of Hyundai Motor India (HMIL) flagged off five 'Mobile Youth Library and Science Labs' from its headquarters in Gurgaon. This is a new initiative launched by HMIF to provide access to quality education in rural areas of UP. The vans will be received in Lucknow on 5th August 2022 from where they would travel to Gazipur, Gonda, Lalitpur, Shamli, and Shahjahanpur districts, where they would be reaching out to 60 schools in all districts touching approximately 16,000 students.

Read more at:

https://www.financialexpress.com/express-mobility/hmif-introduces-mobile-youth-library-and-science-lab-program-to-empower-the-unprivileged/2617790/



Read more at:

TECHNOLOGY



Advanced new sensors could transform prosthetics and robotic Limbs.

(July 31, 2022)

A pioneering project to develop advanced pressure sensors for use in robotic systems could transform prosthetics and robotic limbs. The innovative research project aspires to develop sensors that provide enhanced capabilities to robots, helping improve their motor skills and dexterity, through the use of highly accurate pressure sensors that provide haptic feedback and distributed touch.



Representative Image

https://scitechdaily.com/advanced-new-sensors-could-transform-prosthetics-and-robotic-limbs/

Decentraland announces world's first metaverse ATM.

(August 2, 2022)



Representative Image

Popular metaverse platform Decentraland is launching the world's first metaverse ATM. Decentraland is a virtual reality platform powered by the Ethereum blockchain. The platform enables users to create, experience, and monetize their content and applications. Decentraland has joined hands with Transak payment gateway, and Metaverse Architects studio to enable users to

easily purchase Mana or any other cryptocurrency. According to the developers, the ATM is intended to ease the user experience.

Read more at:

https://indianexpress.com/article/technology/crypto/decentraland-is-launching-worlds-first-metaverse-atm-8065796/

LED smart lighting system based on quantum dots more accurately reproduces daylight.

Researchers have designed smart, color-controllable white light devices from quantum dots — tiny semiconductors just a few billionths of a meter in size — which are more efficient and have better color saturation than standard LEDs, and can dynamically reproduce daylight conditions in a single light. The researchers, from the University of Cambridge, designed the next-generation smart lighting system using a combination of nanotechnology, color science, advanced computational methods, electronics, and a unique fabrication process.



Representative Image

Read more at:

https://scitechdaily.com/led-smart-lighting-system-based-on-quantum-dots-more-accurately-reproduces-daylight/

Smaller, cheaper lidar with new chip-based beam steering device.

(August 4, 2022)

Researchers have developed a new chip-based beam steering technology that provides a promising route to small, cost-effective, and high-performance lidar systems. Lidar used in a wide range of applications such as autonomous driving, 3D holography, biomedical sensing, free-space optical communications, and virtual reality. The scientists showed that the device can eliminate a key optical artifact known as aliasing and achieve beam steering over a large field of view while maintaining high beam quality.

Read more at:

https://scitechdaily.com/smaller-cheaper-lidar-with-new-chip-based-beam-steering-device/

SPORTS



CWG 2022: Manipur celebrates Mirabai Chanu's gold.

(July 31, 2022)



Credit: Clive Brunskill/Getty Images

Manipur burst into celebrations as Mirabai Chanu clinched the first gold medal for India at the Birmingham Commonwealth Games. As her Gold was confirmed, the residents of Nongpok Kakching burst into joy. Chanu (49kg) went on a record-smashing spree, claiming four of them in a power-packed performance, to bag India's first gold medal at the Games on Saturday. The Olympic silver medallist obliterated the Games record in clean and jerk as well as total lift.

Read more at:

https://timesofindia.indiatimes.com/sports/commonwealth-games-022/indiabirmingham/cwg-2022-manipur-celebrates-mirabai-chanus-gold/articleshow/93246989.cms

Croatia Open: Jannik Sinner rallies to top Carlos Alcaraz in final.

(August 1, 2022)

Second-seeded Jannik Sinner rallied from a set down in the final of the Croatia Open to beat top-seeded Carlos Alcaraz 6-7 (5), 6-1, 6-1 for his sixth career ATP title. The 10th-ranked Italian was playing his first final of the year — and eighth overall — as he prevented the fifth-ranked Alcaraz from successfully defending his first ATP title. Sinner dominated after the 19-year-old Alcaraz prevailed in the first-set tiebreaker.



Credit: Indian Express

Read more at:

https://indianexpress.com/article/sports/tennis/sinner-rallies-to-top-alcaraz-in-croatia-open-final-umag-8063545/

IND vs WI 3rd T20 Highlights: India wins by 7 wickets, restores series lead to 2-1.

(August 3, 2022)



Credit: Ricardo Mazalan/ AP Photo

India beat West Indies by seven wickets in the third T20 International to take a 2-1 lead in the five-match series. India chased down the target of 165 with six balls to spare with Suryakumar Yadav top-scoring with a 44-ball 76. Rishabh Pant remained not out on 33 off 26 balls. For West Indies, Akeal Hosein, Dominic Drakes and Jason Holder took a wicket apiece. India had won the first T20I by 68 runs before losing the second match by five wickets.

Read more at:

https://indianexpress.com/article/sports/cricket/ind-vs-wi-3rd-t20-live-score-updates-8066220/

CWG 2022: Murali Sreeshankar wins silver in Men's Long Jump.

(August 5, 2022)

Murali Sreeshankar won the silver medal in the men's long jump at the ongoing Commonwealth Games 2022 with a best jump of 8.08m. He achieved the feat with his fifth jump, having spent most of the final out of the medal spots. Bahamas's Laquan Nairn won the gold medal. Nairn also had a best jump of 8.08m but his second best of 7.98m was better than 7.84m of Sreeshankar.



Credit: AP

Read more at:

https://sports.ndtv.com/commonwealth-games-2022/cwg-2022-murali-sreeshankar-wins-silver-in-mens-long-jump-3226316

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