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# BERCHLY

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ARTS

## **SPORTS**

**SCIENCE** 

TECHNOLOGY



# Archaeologists in Brazil find petroglyphs alongside dinosaur tracks



Credit - Scientific Reports

### Friday, March 22, 2024

A study published this week in the journal *Scientific Reports* reveals that archaeologists in the northeastern Brazilian state of Paraíba have discovered a link between human-made petroglyphs and the nearby fossilised dinosaur footprints from the Early Cretaceous Period. The researchers <u>contend</u> that the rock art was specifically created around the already more than 100-million-year-old tracks with a deliberation not to disturb them. The meaning behind this act remains unknown.

Readmorehttps://www.theartnewspaper.com/2024/03/22/archaeologists-brazil-find-petroglyphs-alongside-dinosaur-tracks

### Peru recovers 4,600 culturally significant items from across US and Europe Friday, March 22, 2024

More than 4,000 culturally significant items, including textiles, ceramics, and clothing, have been repatriated to Peru, their country of origin, the Peruvian Ministry of Foreign Affairs said in a statement.

The 4,600 cultural assets were returned to the South American country from the United States and countries across Europe including Germany, Italy, and Switzerland, the foreign ministry said Wednesday.



Recovered Inca ceramics are displayed at the Foreign Ministry in Lima, Peru on Wednesday, March 20, 2024. Miguel Paredes Haro/AP

# SPORTS



# Max Verstappen Heavy Favourite InMelbourneAsRedBullDramaRumbles OnWednesday, March 20, 2024

Max Verstappen will be heavy favourite to make it three wins from three this season as his Red Bull team attempt to put weeks of paddock intrigue behind them at the Australian Grand Prix. The Dutch three-time world champion emphatically led home teammate Sergio Perez in Bahrain and Saudi Arabia, but the celebrations were overshadowed by team disunity and allegations against Christian Horner. The long-serving Red Bull boss was cleared of inappropriate conduct involving a woman colleague ahead of the season-opener in Sakhir and tried to put a lid on the drama in Jeddah.

**Read more** -<u>https://sports.ndtv.com/formula-1/max-verstappen-heavy-favourite-in-melbourne-</u> as-red-bull-drama-rumbles-on-5273216

### Charles Leclerc Outpaces Max Verstappen In Second Practice For Australian Grand Prix Friday, March 22, 2024

Ferrari's Charles Leclerc went quickest of world ahead champion Max Verstappen in second practice at the Australian Grand Prix on Friday, with Carlos Sainz third barely two weeks after surgery. Leclerc clocked a best lap round the Albert Park circuit of one minute 17.277 seconds, 0.381 clear of Red Bull's Verstappen, who won in Melbourne last year from pole. Verstappen ran over a kerb late in first practice and damaged the floor of his car, meaning the team were still working on the issue when the second session started.

**Read more** - <u>https://sports.ndtv.com/formula-1/charles-</u> <u>leclerc-outpaces-max-verstappen-in-second-practice-</u> <u>for-australian-grand-prix-5288800</u>

## "Shahid Afridi With Brains": Navjot Singh Sidhu's Sensational Praise For KKR Star In IPL 2024

#### Sunday ,Mar 24, 2024



Former Indian cricket team batter Navjot Singh Sidhu is well known for his witty comments and this time, he came up with a sensational praise for Kolkata Knight Riders skipper <u>Shreyas Iyer</u>. Sidhu was all praise for the India batter and he said that Shreyas is like "Shahid Afridi with brains". Shreyas will be leading KKR in the IPL 2024 and it will be the perfect opportunity for him to prove his mettle against quality opponents after being snubbed for the BCCI central contracts. Sidhu went on to say that he does not see Shreyas playing in the first gear and lauded his ability to adapt to situation while batting.

**Read more** - <u>https://sports.ndtv.com/ipl-2024/shahid-afridi-with-brains-navjot-singh-sidhus-</u> sensational-praise-for-kkr-star-in-ipl-2024-5297445

# KKR vs SRH: Phil Salt doffs his hat to Andre Russell, HarshitRana after thrillerSunday, Mar 24, 2024

Phil Salt doffed his hat to match-winners Harshit Rana and Andre Russell after Kolkata Knight Riders' thrilling 4-run win over Sunrisers Hyderabad on March 23, Saturday to start their IPL 2024 campaign on a high. Salt, playing his first IPL match for KKR, scored a crucial fifty, but it was Russell's all-round performance and Harshit's final over that went on to hog limelight.Speaking at the press the conference after the match, the England wicketkeeper-batter said that the game see-sawed all the way through. While Salt admitted that KKR were a bit sloppy on the field, he would praise Harshit for holding his nerve in the final over.



Credit: Russell and Harshit were the matchwinners for KKR (Courtesy: AP)

**Read more** - <u>https://www.indiatoday.in/sports/cricket/story/ipl-2024-kkr-vs-srh-andre-russell-harshit-rana-phil-salt-kolkata-2518807-2024-03-24</u>

# SCIENCE

### Quantum talk with magnetic disks

#### Wednesday March 20, 2024



Quantum computers promise to tackle some of the most challenging problems facing humanity today. While much attention has been directed towards the computation of quantum information, the transduction of information within quantum networks is equally crucial in materializing the potential of this new technology. Addressing this need, a research team at the Helmholtz-Zentrum Dresden-Rosendorf (HZDR) is now introducing a new approach for transducing <u>quantum</u> <u>information</u>. The team has manipulated quantum bits, so-called <u>qubits</u>, by harnessing the magnetic field of magnons—wave-like excitations in a magnetic material that occur within microscopic magnetic disks.

Read more -https://phys.org/news/2024-03-quantum-magnetic-disks.html

## Al could help predict floods where traditional methods struggle Thursday, March 21, 2024

An artificial intelligence (AI) model could improve the accuracy of flood forecasting, according to <u>a new study</u> published in Nature. The system is shown to be as accurate as, or an improvement on, current leading methods and could provide earlier warnings of large flooding events.

Human-caused climate change has increased the frequency of flooding in some regions. Current forecasting methods are limited by their reliance on stream gauges (monitoring stations along rivers), which are not distributed evenly across the globe.



Credits - YONSEI UNIVERSITY

Read more - https://phys.org/news/2024-03-ai-traditional-methods-struggle.html

### New Al model: A leap for autonomous materials science





Materials science enables cutting-edge technologies, from lightweight cars and powerful computers to high-capacity batteries and durable spacecraft. But to develop materials for these applications, they need to be exactingly analysed through numerous microscopic lenses—a difficult and time-consuming process.

A new artificial intelligence (AI) model developed at Pacific Northwest National Laboratory (PNNL) can identify patterns in electron microscope images of materials without requiring human intervention, allowing for more accurate and consistent materials science.

PNNL's new AI model for materials science can identify patterns in electron microscope images without human guidance. Credit: Cortland Johnson | Pacific Northwest National Laboratory

Read more - https://phys.org/news/2024-03-ai-autonomous-materials-science.html

## Orcas covered in scars left by 'cookiecutter sharks' may be new population, study says Saturday, Mar 23, 2024

A group of killer whales spotted hunting off the coast of California and Oregon over two decades may actually be their own unique population of animals, a new study says.

When the notorious black fin of an orca emerges from the waves, it is almost always followed by another and then another.

The social, family-oriented animals travel in pods, part of larger populations of animals that hunt the same species and circulate the same waters.



A killer whale leaps out of the water when swimming a behaviour known as porpoising. Credit: Minette Layne/Wikipedia/CC

Read more - https://phys.org/news/2024-03-orcas-scars-left-cookiecutter-sharks.html

# MECHINOLOGY

### Scientists discover super sensor for the smallest scales

A team that included researchers at the Department of Energy's Oak Ridge National Laboratory used a new twist on an old method to detect materials at some of the smallest amounts yet recorded.

The results could lead to enhancements in security technology and aid the development of quantum sensors. <u>The study</u>, published in Nano Letters, employed the Seebeck effect, a thermoelectric phenomenon discovered two centuries ago, to identify the heat and light signatures of molecules measured by the attogram—a quintillionth of a gram, or 1018 times lighter than a dollar bill.



Read more - https://phys.org/news/2024-03-scientists-super-sensor-smallest-scales.html

## Advances and applications of nanoparticles in cancer therapy Wednesday, March 20, 2024

The research team of Prof. Changyang Gong from the Department of Biotherapy, Cancer Center and State Key Laboratory of Biotherapy, West China Hospital, Sichuan University has published a new review showing that rapid growth in nanoparticles as delivery systems hold vast promise to promote therapeutic approaches for cancer treatment. Dr. Xiaozhou Huang served as team leader.

The research is <u>published</u> in the journal MedComm – Oncology.

Presently, a diverse array of <u>nanoparticles</u> with <u>unique properties</u> has been developed.



**Read more** - <u>https://phys.org/news/2024-03-advances-applications-nanoparticles-cancer-</u> therapy.html

Tuesday, March 19, 2024