

# Current Affairs

July 20

1. WashU researchers shine light on amyloid architecture *Source:* Washington University in St.Louis  
<https://source.wustl.edu/2024/07/washu-researchers-shine-light-on-amyloid-architecture/>

2. Embodied Earth Kinship: Interoceptive awareness and relational attachment personal factors predict nature connectedness in a structural model of nature connection *Source:* Frontiers  
<https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2024.1400655/abstract>

3. Into Another Dimension: Nanoscale Trilayer Exhibits Ultrafast Charge Transfer in Semiconductor Materials  
*Source:* NREL  
<https://www.nrel.gov/news/program/2024/into-another-dimension-nanoscale-trilayer-exhibits-ultrafast-charge-transfer-in-semiconductor-materials.html#:~:text=Into%20Another%20Dimension%3A%20Nanoscale%20Trilayer%20Exhibits%20Ultrafast%20Charge%20Transfer%20in%20Semiconductor%20Materials,-July%2017%2C%202024&text=Successfully%20innovating%20optoelectronic%20semiconductor%20devices,of%20creating%20fuels%20or%20electricity.>

4. A 100-year-old physics mystery may be close to being solved as a new study reveals structural changes in titanium-48's nucleus *Source:* Osaka Metropolitan University  
<https://www.omu.ac.jp/en/info/research-news/entry-58545.html>

5. How Mantle Hydration Changes over the Lifetime of a Subduction Zone *Source:* Eos  
<https://eos.org/research-spotlights/how-mantle-hydration-changes-over-the-lifetime-of-a-subduction-zone#:~:text=During%20mature%20subduction%2C%20the%20plate,sweet%20spot%20for%20mantle%20hydration.>

6. Cracking the Code of Hydrogen Embrittlement *Source:* Texas A&M University Engineering  
<https://engineering.tamu.edu/news/2024/07/cracking-the-code-of-hydrogen-embrittlement.html>

7. 'Giant' creature was lost to science for 126 years. It's just been found in Madagascar *Source:* Miami Herald  
<https://www.miamiherald.com/news/nation-world/world/article290213679.html>

8. Chaos and Confusion: Tech Outage Causes Disruptions Worldwide *Source:* The New York Times  
<https://www.nytimes.com/2024/07/19/business/microsoft-outage-cause-azure-crowdstrike.html>

9. Putin's Invasion Has Cost Him 1.7 Million Workers: Report *Source:* NewsWeek  
<https://www.newsweek.com/russia-putin-labor-shortage-1927958>

10. Brazil halts some poultry exports after Newcastle disease case *Source:* Reuters  
<https://www.reuters.com/world/americas/brazil-declares-animal-health-emergency-rio-grande-do-sul-after-newcastle-2024-07-19/>

# Today In *History*

## *Find Out What happened On July 20*

### Important events of July 20

- *International Chess Day*
- **1031:** Robert II's successor, Henry I, took over as king of Spain. *Source:* [Britannica](#)
- **1807:** Nicephore Niepce was patented for the world's first internal combustion engine. *Source:* [Maison de Nicéphore Niépce \(Photo Museum\)](#)
- **1810:** Colombia declared independence from Spain. *Source:* [Thought.Co](#)
- **1908:** Establishment of the Bank of Baroda on the initiative of Maharaja Sir Sayajirao Gaikwad (III) of Baroda. *Source:* [Bank of Baroda \(United Kingdom\)](#)
- **1923:** Pancho Villa was assassinated. *Source:* [The University of Texas at Austin](#)
- **1944:** Klaus von Stauffenberg and four fellow conspirators were executed for plotting to assassinate Adolf Hitler. *Source:* [HOLOCAUST ENCYCLOPEDIA](#)
- **1944:** The US attacked Japanese-occupied Guam. *Source:* [Britannica](#)
- **1951:** King Abdullah I of Jordan was assassinated by a Palestinian while attending Friday prayers in Jerusalem. *Source:* [Association for Diplomatic Studies & Training](#)
- **1969:** Apollo 11's crew successfully made the first manned landing on the Moon in the Sea of Tranquility. Americans Neil Armstrong and Buzz Aldrin became the first humans to walk on the Moon six and a half hours later. *Source:* [NASA](#)
- **1989:** Burma's ruling junta put opposition leader Daw Aung San Suu Kyi under house arrest. *Source:* [Human Rights Watch](#)