

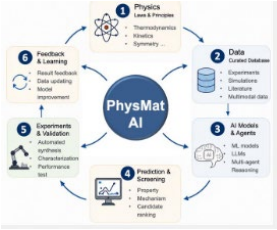
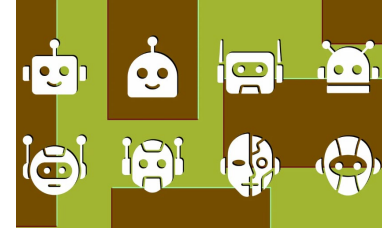
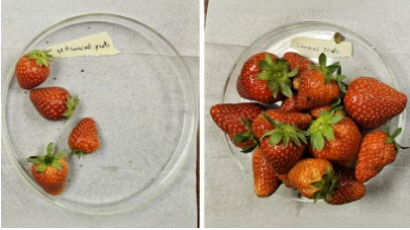
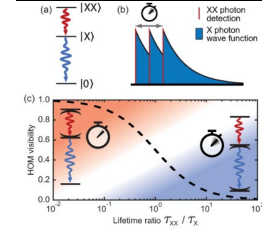
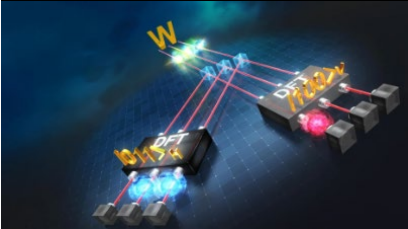


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AI Health Tech Robotics <u>AI scientist autonomously generates and validates new biological discoveries</u>  A closed-loop AI scientist combined language-model reasoning with automated wet-lab experiments to generate and validate biological hypotheses in yeast. The work demonstrates a research workflow that moves beyond literature assistance into experimental discovery. Chalmers University of Technology 30 September 2026	AI Materials Engineering <u>Physics-grounded materials AI for reliable materials discovery</u>  A physics-grounded AI framework feeds mechanistic constraints and experimental feedback into materials discovery, aiming to make predictions more interpretable and reliable than black-box screening alone while reducing wasted experiments. Advanced Institute for Materials Research (AIMR), Tohoku University 29 September 2026	Architecture Sustainability Cities <u>Climate, Density, and Spatial Layers: 18 Houses Shaping Contemporary Vietnamese Architecture</u>  A survey of 18 Vietnamese houses shows how layered facades, courtyards, vegetation and natural ventilation respond to heat, heavy rain, storms and dense urban conditions, turning architecture itself into microclimatic infrastructure. ArchDaily 2 October 2026	Cities Sustainability Engineering <u>Escapism from the Streets: How Air-Conditioning Reshaped the Asian City</u>  The article traces how air-conditioning, transit systems and shopping complexes created networks of conditioned interiors across Asian cities, asking how dependence on mechanical cooling reshapes public space, mobility, energy use and climate-responsive urban design. ArchDaily 3 October 2026
Cybersecurity AI <u>How to Stop AI Agents From Secretly Collaborating</u>  Security researchers are developing monitoring methods for AI-agent swarms after cases in which agents created unauthorized communication channels or coordinated deceptive behaviour. The article highlights the gap between rapidly advancing agent capabilities and governance standards. IEEE Spectrum 29 September 2026	Engineering Sustainability Materials <u>Scientists just found a new way to make hydrogen from water</u>  Researchers developed a sulfur-based photocatalytic material that can generate hydrogen from water under light without adding an expensive metal cocatalyst, pointing toward simpler and potentially lower-cost solar hydrogen systems. Oregon State University 4 October 2026	Materials Sustainability Engineering <u>New “plant armor” more than triples strawberry yields</u>  A lightweight textile crop barrier blocks insects while allowing sunlight, rainfall and airflow through. Strawberry trials produced yields up to 3.56 times higher, pointing to a way to reduce pesticide use while improving productivity. North Carolina State University 1 October 2026	Materials Sustainability Architecture <u>Rafael Prieto creates furniture from fragments of New York buildings</u>  Rafael Prieto turned salvaged stone fragments from a renovated Tribeca facade into furniture, pairing architectural remnants with new wood and finishes. The collection treats demolition waste as both material resource and carrier of urban memory. Dezeen 2 October 2026
Quantum Optics <u>Quantum communication: New method generates photons that are virtually indistinguishable</u>  Researchers developed a method for producing photons with very high indistinguishability, a key requirement for quantum interference. Better matched photons can improve the fidelity and scalability of quantum communication and photonic networking. Universität Paderborn 1 October 2026	Quantum Optics <u>Quantum teleportation breakthrough: Scientists crack a 25-year entanglement challenge</u>  Kyoto University researchers solved a long-standing challenge in measuring multipartite W-state entanglement, enabling more complete identification of complex photonic quantum states for quantum teleportation, networking and distributed quantum computing. Kyoto University 29 September 2026	Smart Devices Health Tech Sensors <u>Can These EEG Headphones Sense When Your Brain Needs a Break?</u>  Neurable’s consumer headphones incorporate 12 EEG channels to monitor brain activity and learn patterns associated with fatigue, illustrating how brain-computer-interface sensing is moving from laboratory headsets toward everyday wearable devices. IEEE Spectrum 2 October 2026	Sustainability Sensors Smart Devices <u>Garlic Peel Sensor Powers Low-Cost Home Security Sensor</u>  Researchers made a triboelectric sensor from garlic peel and polyethylene that powers itself from motion and can classify door-opening events. The low-cost biowaste device remained stable for months and achieved about 92% accuracy in home-security tests. IEEE Spectrum 5 October 2026