

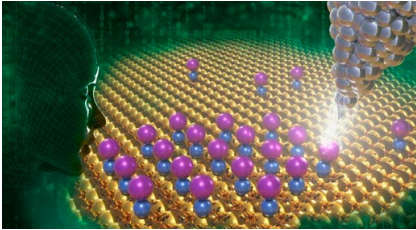
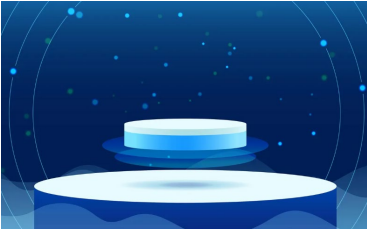
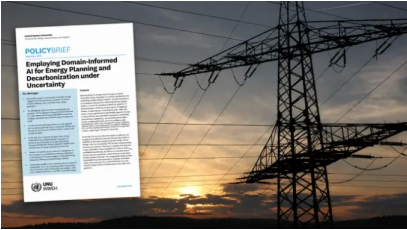
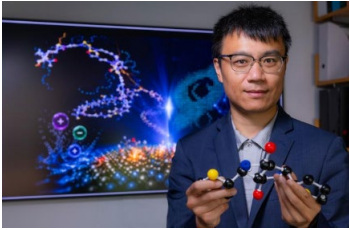
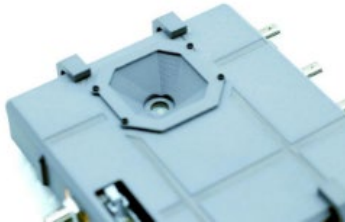
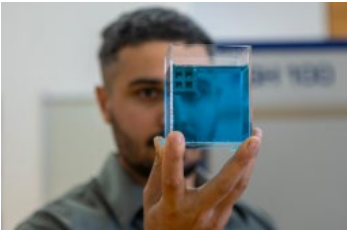
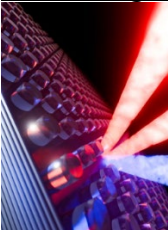
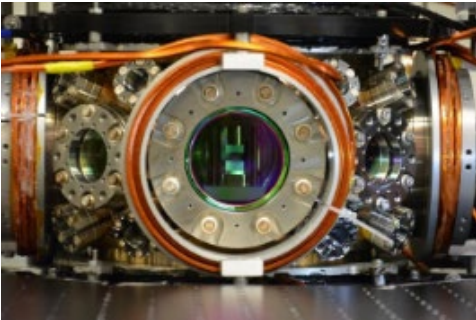


Access to 30,000 technical, economic and market intelligence. Research topics include information and communication technologies; aerospace and defence; automotive and transportation; chemicals, materials and foods; electronics and security; energy and power systems; environment, building and technologies; healthcare; measurement and instrumentation; and industrial automation and process control. The research focuses on market strategies, forecast and analysis, as well as emerging technologies, to aid in the identification and generation of growth opportunities.

For employees of SUTD (Staff, Researchers, Faculty), please email to library@sutd.edu.sg to activate download feature.

[CLICK HERE TO ACCESS](#)

[Access all Subscribed Databases on our Library Website](#)

AI · Materials · Robotics · Nanotechnology <u>AI automates the creation of custom materials</u>  Oak Ridge researchers combined AI with a scanning tunneling microscope to autonomously manipulate matter at the molecular scale. The system can move molecules into designed patterns and operate for extended periods, demonstrating a route toward automated, atom-by-atom fabrication of customized functional materials. DOE/Oak Ridge National Laboratory 1 September 2026	AI · Robotics · Materials · Quantum <u>Betting on AI and Robots to Automate Superconductor Discovery</u>  Startups are combining robotic laboratories, X-ray diffraction and machine learning to search for manufacturable superconductors. Periodic Labs says its robot-arm workflow can test up to 1,000 candidates a day, while Quantum Formatics is pursuing materials that could become practical wire at higher operating temperatures. IEEE Spectrum 2 September 2026	AI · Sustainability · Grid resilience <u>Electrical grids planned on outdated climate data face physical and fiscal risk: UN University scientists propose domain-informed AI as the fix</u>  UN University researchers argue that electricity planning based mainly on historical climate assumptions can understate future heat, flood and demand risks. They propose domain-informed AI that combines physical knowledge with data-driven models to support more resilient grid investment and reduce costly planning errors. United Nations University 4 September 2026	AI · Architecture · BIM · Materials data <u>How Material Intelligence Solves What BIM Can't</u>  The article argues that BIM organizes geometry and component information but often lacks continuously updated intelligence about real products and material choices. Material-data platforms can fill that gap by connecting design decisions to performance, sourcing and specification information as projects evolve. ArchDaily 8 September 2026
AI · Materials · Wearable electronics <u>Researchers use data and AI to design next-generation organic electronic materials</u>  Iowa State researchers are combining experimental data, computation and AI to accelerate design of organic electronic materials. The work targets flexible and wearable electronics by learning structure-property relationships that can narrow the search space before costly synthesis and testing. Iowa State University 4 September 2026	AI · Sensors · Smart devices · Imaging <u>Rice project aims to reinvent cameras with generative AI</u>  U.S. National Science Foundation Rice University researchers are developing 'generative cameras' that capture a smaller set of task-relevant measurements and use generative AI to reconstruct or infer what is needed. The concept targets lower data volume, power consumption and hardware cost for future sensing and imaging systems. Rice University 1 September 2026	Architecture · Sustainability · Adaptive reuse · Cities <u>Badweather converts derelict canal boat into London's first off-grid bathhouse</u>  Design studio Badweather transformed a neglected canal boat into Soak, described as London's first off-grid floating bathhouse. The adaptive-reuse project brings bathing and wellness infrastructure onto the water while demonstrating a compact, self-contained alternative to a conventional land-based building. Dezeen 7 September 2026	Cities · Sustainability · Climate adaptation · Infrastructure <u>Climate Infrastructure at Human Scale: From Water Management to Urban Cooling</u>  ArchDaily examines small, repeatable climate-infrastructure prototypes that manage stormwater, filter polluted air or cool overheated public space. By placing environmental systems directly in parks, waiting areas and streets, the projects make adaptation visible and usable at the scale where people actually experience climate stress. ArchDaily 1 September 2026
Health tech · Sensors · AI · Neuromorphic computing <u>Invention may bring smart bionic eye in sight</u>  RMIT researchers demonstrated a prototype electronic vision element that combines sensing, memory and information processing in the same device. Mimicking aspects of biological vision could reduce data movement and energy use, a promising direction for compact bionic vision systems and neuromorphic cameras. RMIT University 8 September 2026	Materials · Engineering · Marine infrastructure <u>Engineers create world-first floating titanium</u>  RMIT engineers produced a 3D-printed titanium lattice designed to remain buoyant even after damage. Hollow structural elements are combined with internal foam so the metal structure can float, creating a corrosion-resistant material concept for harsh marine and water-based engineering applications. RMIT University 2 September 2026	Optics · Quantum · Semiconductors · Metasurfaces <u>New device design could miniaturize photonics, quantum technologies</u>  Harvard researchers combined engineered semiconductor layers with metasurface structures to boost nonlinear optical interactions in a compact platform. Strong frequency conversion near infrared wavelengths could help shrink components used in photonics, sensing and emerging quantum technologies. Harvard John A. Paulson School of Engineering and Applied Sciences 4 September 2026	Quantum · AI · Optics · Memory <u>Physics advance could improve how AI remembers and learns</u>  Stanford researchers explored a quantum-optical spin-glass system that can behave like associative memory, linking patterns in atoms and photons. The platform offers a physics-based route for studying memory and learning mechanisms and may inspire new hardware concepts for energy-efficient machine intelligence. Stanford University 3 September 2026