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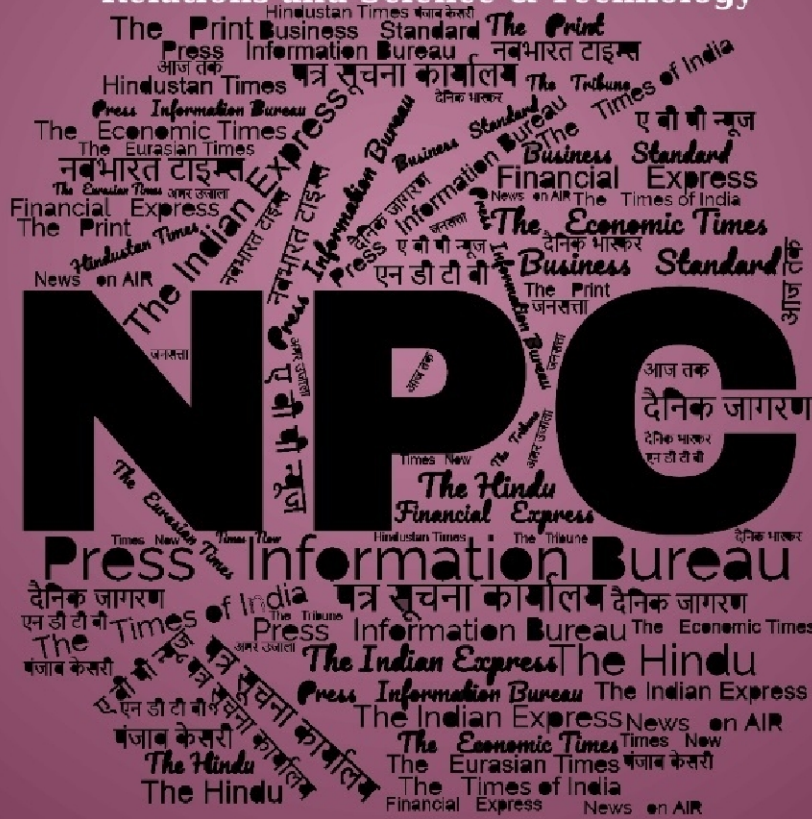
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समाचार पत्रों से चयनित अंश Newspapers Clippings

डीआरडीओ समुदाय को डीआरडीओ प्रौद्योगिकियों, रक्षा प्रौद्योगिकियों, रक्षा नीतियों, अंतर्राष्ट्रीय संबंधों और विज्ञान एवं प्रौद्योगिकी की नूतन जानकारी से अवगत कराने हेतु दैनिक सेवा

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Defence News

भारत को मिलेगी एस-400 मिसाइल प्रणाली की चौथी खेप

Source: Jansatta, Dt. 29 Apr 2026

भारत को सतह से हवा में मार करने वाली "एस-400 ट्रायम्फ" मिसाइल प्रणाली की चौथी इकाई रूस से अगले महीने के पहले हिस्से में प्राप्त होने की उम्मीद है। इससे भारतीय वायुसेना के वायु रक्षा तंत्र को और मजबूती मिलेगी। सुरक्षा प्रतिष्ठान के सूत्रों ने मंगलवार को यह जानकारी दी।

अक्टूबर 2078 में, भारत ने पांच मिसाइल प्रणालियां खरीदने के लिए रूस के साथ 5 अरब अमेरिकी डालर का एक समझौता किया था और इनमें से तीन की आपूर्ति पहले ही की जा चुकी है। सूत्रों ने बताया कि मिसाइल प्रणाली की आपूर्ति के लिए संशोधित समय-सीमा के अनुसार, पांचवीं इकाई नवंबर तक सुपुर्द कर दी जाएगी। आपरेशन सिंदूर के दौरान एस-400 मिसाइल प्रणालियों ने महत्वपूर्ण भूमिका निभाई थी। पिछले महीने, नई दिल्ली ने रूस से पांच एस-400 मिसाइल प्रणालियों की एक नई खेप की खरीद को मंजूरी दी थी, जिससे इसकी कुल संख्या 0 हो जाएगी। पता चला है कि मिसाइल प्रणाली की चौथी इकाई पहले ही रवाना की जा चुकी है और अगले कुछ दिनों में इसके भारत पहुंचने की उम्मीद है। भारत ने एस-400 मिसाइल की खरीद के लिए सात साल पहले एक समझौते पर हस्ताक्षर किए थे, जबकि अमेरिका ने चेतावनी दी थी कि अनुबंध को आगे बढ़ाने से काउंटरिंग अमेरिकाज एडवर्सरीज थ्रू सेंक्शंस एक्ट (सीएएटीएसए) के प्रावधानों के तहत अमेरिकी प्रतिबंध लग सकते हैं।

सूत्रों ने बताया कि भारत को अमेरिकी प्रतिबंधों से किसी भी तरह की बाधा की उम्मीद नहीं है, क्योंकि यह नयी खरीद पिछले आर्डर का 'अनुगामी' होगा। भारतीय वायुसेना ने 7-10 मई को पाकिस्तान के साथ हुए सैन्य संघर्ष के दौरान इन मिसाइल प्रणालियों का व्यापक रूप से उपयोग किया था। संघर्ष के कुछ हफ्ते बाद, एस-400 मिसाइल की एक और खेप खरीदने का प्रस्ताव रखा गया था। रूस ने भारतीय कर्मियों के एक समूह को इन मिसाइल प्रणालियों को संचालित करने का पहले ही प्रशिक्षण दिया है। एस-400 को रूस की सबसे उन्नत लंबी दूरी की सतह से हवा में मार करने वाली मिसाइल रक्षा प्रणाली के रूप में जाना जाता है।

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India's fourth S400 system to arrive in mid-May as Russia ships unit; deployment likely in Rajasthan

Source: The Times of India, Dt. 29 Apr 2026

Russia has shipped the fourth batch of S-400 Triumf defence system that "will reach India by mid-May" soon after the May 7 anniversary of Operation Sindoor, a defence source told TOI. The fifth S-400 system is expected to arrive in India in November. The Russian S-400 system proved its mettle in protecting India's military and civilian assets from Pakistan missiles during last year's conflict.

"The pre-dispatch inspection by the IAF officials of the incoming S-400 system was completed by April 18," Russian state-owned news agency TASS quoted a source as saying. "The fourth Russian S-400 air defence system is on its way to India and is expected to be received at an

Indian port by mid-May. The new system is planned to be deployed in Rajasthan to strengthen missile defence on the Pakistan border,” it further said. The fifth system will be deployed on the border with China, TASS said.

While the earlier two batches of S400 systems were deployed along the Pakistan border, the third one is positioned in the eastern sector. In 2018, India signed an agreement for the purchase of five S-400 squadrons worth \$5.43 billion to bolster its missile defence shield. Impressed with its highly-effective role against Pakistan last year, the defence acquisition council (DAC) on March 27 this year approved the acquisition of additional five Russian S-400 systems, which are likely to expand the missile shield in the country.

India has also decided to purchase 280 short-and long-range S-400 missiles to replenish the stockpiles used during Op Sindoor, as well as to create a reserve of long-range weapons. India is estimated to have fired 11 long-range S-400 missiles at Pakistan, hitting fighter jets, early warning systems, and transport aircraft.

Post-Sindoor, India is in the process of developing a multi-layered integrated air and missile defence system ‘Sudarshan Chakra’ (India’s own Iron Dome), involving S-400 (long-range), Barak-8 (medium-range), and indigenous Project Kusha (extended range air defence system) to create an advanced, homegrown “Iron Dome” comprehensive security shield against diverse threats like ballistic missiles, drones, and hypersonic weapons. India is also planning to procure Russian Pantsir-S1M short-range air defence systems to protect its S-400 Triumph batteries from small threats like drones.

<https://timesofindia.indiatimes.com/india/indias-fourth-s400-system-to-arrive-in-mid-may-as-russia-ships-unit-deployment-likely-in-rajasthan/articleshow/130589743.cms>

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जनाथ बोले- आतंक पर दोहरा रवेया नहीं चलेगा

Source: NavBharat Times, Dt. 29 Apr 2026

प्रश्चिम एशिया संकट के बीच रक्षा मंत्री राजनाथ सिंह ने कहा कि हमें न्यू वर्ल्ड ऑर्डर चाहिए या ऐसी दुनिया चाहिए जो ज्यादा व्यवस्थित हो। ऐसी व्यवस्था की जरूरत है जहां मतभेद विवाद का रूप ना लें और विवाद विनाश का कारण ना बनें।

बिश्केक में 800 के सम्मेलन में राजनाथ सिंह ने कहा कि आतंक पर दोहरा रवेया नहीं चलेगा। 500 दुनिया की बड़ी आबादी का प्रतिनिधित्व करता है इसलिए हमारी जिम्मेदारी बनती है कि हम अपने क्षेत्र में ही नहीं बल्कि पूरी दुनिया में शांति और स्थिरता सुनिश्चित करें। हमें याद रखना होगा कि शक्ति की अग्नि रीक्षा गगीब और कमजोर के खिलाफ इस्तेमाल करने में नहीं हे बल्कि उन लोगों के हित में इस्तेमाल करने में है जो खुद की रक्षा नहीं कर सकते।

उन्होंने कहा कि ऑपरेशन सिंदूर के दौरान हमने ये साफ कर दिया कि आतंकवाद के केंद्र अब सजा पाने से किसी प्रकार से बच नहीं सकते। हमें ये नहीं भूलना चाहिए कि आतंकवाद का न कोई देश होता है न कोई धर्म होता है।

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Rajnath warns Pak on terror at SCO meet

Source: The Times of India, Dt. 29 Apr 2026

Addressing the Shanghai Cooperation Organisation (SCO) defence ministers' meeting in Kyrgyzstan's capital Bishkek on Tuesday, defence minister Rajnath Singh said "Operation Sindoor had demonstrated India's firm resolve that terror epicentres will be meted out justifiable punishment". His warning to Pakistan came before its defence minister Khawaja Asif at the meeting.

Rajnath stressed the need for a "united front to tackle evils of terrorism, separatism and extremism by dismantling safe havens and rejecting any political exceptions". He called on member-states to eliminate double standards in the global fight against terror. "We must not lose sight of state-sponsored cross-border terror which attacks the very sovereignty of a nation state." Recalling Pahalgam, he said, "No grievance, real or supposed, can become an excuse for terror and humanitarian loss".

On the global situation, he said, "The real crisis today is not of a non-existent order but a tendency to question the established rules-based world order. We must focus on a global consensus where co-existence, cohabitation and compassion take precedence over chaos, competition and conflict...We should not allow it to become an era of violence and war, but an era of peace and prosperity."

<https://timesofindia.indiatimes.com/india/rajnath-warns-pak-on-terror-at-sco-meet/articleshow/130592613.cms>

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No place for double standards when it comes to terrorism: Rajnath Singh at SCO meet

Source: The Indian Express, Dt. 29 Apr 2026

Defence Minister Rajnath Singh Tuesday said there is no place for double standards when it comes to terrorism, and the Shanghai Cooperation Organisation (SCO) should not hesitate in seeking appropriate action against those who abet, shelter and provide safe havens to terrorists, in a reference to Pakistan' support to terror activities.

Singh was addressing delegations of various member countries of the SCO at the SCO Defence Ministers' meeting at Bishkek, Kyrgyzstan. He also held talks with his Chinese and Russian counterparts, Admiral Dong Jun and Andrei Belousov, as well as counterparts from other countries, on the margins of the multilateral conclave.

In his address, Singh said it is important not to lose sight of state-sponsored cross-border terrorism, which attacks the very sovereignty of a nation-state. "There is no place for any double standards, and the SCO should not hesitate in seeking appropriate action against those who abet, shelter and provide safe havens to terrorists," he said.

Stating that there is a growing challenge in the form of extremism, radicalism and terrorism, he said that terrorism has become the most serious threat to the emerging world order. "It is in this backdrop that the SCO emerged as an organisation, based on our shared values. SCO has condemned such acts and ideologies in a common fight against terrorism. Thus, counter-terrorism

is a foundational principle of this organisation,” he said. He added that a few days back, on April 22, India remembered the victims of the heinous terrorist attack in Pahalgam.

“The carnage in Pahalgam had shaken the entire humanity. During Op Sindoor, we demonstrated our firm resolve that terrorism epicentres are no longer immune to justifiable punishment. Last year, the Tianjin Declaration brought out our firm and collective stance against terrorism,” he said.

He added that it was a testimony to India’s zero-tolerance outlook towards terrorism and its perpetrators, which was endorsed by the forum. He added that the collective credibility remains consistent. “We must not forget that terrorism has no nationality and no theology. No grievance, real or supposed, can become an excuse for terrorism and humanitarian loss,” he said.

He added that the Regional Anti-Terrorist Structure of the SCO has played a significant role “The joint statement of the Heads of State on ‘Countering Radicalisation leading to Terrorism, Separatism and Extremism’ issued during India’s Chairmanship symbolises our shared commitment in this regard,” he said, adding that tackling these three evils requires a unified front that eliminates safe havens and rejects any political exceptions.

SCO’s role in global peace

He said the SCO plays a particularly pivotal role in today’s world, where the worldview appears fractured, and countries are becoming increasingly inward-looking. “The world today is facing a reality check in the form of increasing unilateralism and conflicts. We are experiencing a fraying consensus and frequent contestation,” he said. Referring to the ongoing West Asia conflict, he said that the meeting today is taking place in the backdrop of unprecedented crises in our world, adding that a series of conflicts over the last few years led to loss of precious lives and property with a disturbing frequency.

“As people responsible for defence and security, it is time for us to introspect and take effective measures to tackle this situation,” he said. “Do we need a new world order or a world which is more orderly? We need an order where every citizen of this world is treated with dignity and respect. We need an order where differences do not become disputes, and disputes don’t precede disasters,” he added.

“The real crisis today is not of a non-existent order but a tendency to question the established rule-based world order. We must focus on a global consensus where co-existence, co-habitation and compassion take precedence over chaos, competition and conflict,” he said. Rajnath Singh said that since SCO represents a significant section of the world population, it has a responsibility to ensure peace and stability not only in the region, but in the world as a whole. “We should continue to follow the path of dialogue and diplomacy and not of unrelenting force,” he added.

“We should not allow it to become an era of violence and war, but an era of peace and prosperity,” he said, adding a quote from Mahatma Gandhi that an eye for an eye makes everyone blind and that before every action we must remember how that action can make a difference to the life of a poor and needy. “The real test of power is not in using it against the poor and the weak, but in using it in the interest of those who are unable to defend themselves. The SCO’s capacity to turn this shared vision into reality will determine whether or not it can play a constructive role in an emerging global order.”

India’s commitment to SCO mandate

He said that India remains committed to contributing constructively to the implementation of the SCO’s mandate. “We strongly advocate that greater cooperation and mutual trust among SCO

members based on equality, mutual respect and deeper understanding can make this organisation a beacon of hope and peace," he said.

Singh said on X that "it was a pleasure to interact with the Defence Minister of China, Admiral Dong Jun, during the SCO Defence Ministers' Meeting in Bishkek". This was his third engagement with the Chinese defence minister since October 2024, when both sides agreed to disengage in eastern Ladakh after a military standoff lasting more than four years.

Singh met Belousov twice last year, at the SCO Defence Ministers' meet in Qingdao, China, in June, and at the 22nd India-Russia Inter-Governmental Commission on Military and Military Technical Cooperation meeting in Delhi in December.

<https://indianexpress.com/article/india/rajnath-singh-sco-meet-bishkek-terrorism-double-standards-china-russia-10660287/>

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India 5th largest military spender at over \$92 bn in 2025, says SIPRI

Source: The Times of India, Dt. 29 Apr 2026

India was fifth biggest military spender globally in 2025 and the country increased its military spending by 8.9% to \$92.1 billion, according to a report released by arms watchdog group Sipri on Monday. The India-Pakistan conflict in May 2025 - which involved use of combat aircraft, drones and missiles - pushed up India's military spending during the year, according to the report.

"Pakistan's military spending grew by 11% to \$11.9 billion in 2025. The increase was largely due to new orders for aircraft and missiles placed with China in 2025 following the armed conflict with India in May, as well as payments for earlier procurement contracts nearing completion," according to Sipri's annual "Trends in World Military Expenditure" report.

China, the world's second largest military spender, increased its military spending by 7.4% to \$336 billion. This was the 31st consecutive year-on-year increase as China continued its military modernisation drive. "A renewed campaign against corruption in military procurement does not appear to have constrained spending," the report said. At \$954 billion, military spending by the US was 7.5% lower in 2025 than in 2024.

The drop was primarily because no new financial military assistance for Ukraine was approved during the year. This was in sharp contrast to the previous three years, when a total of \$127 billion was approved.

The five biggest spenders in 2025 were the US, China, Russia, Germany and India, together accounting for 58% of world military spending, at a total of \$1,686 billion. The global world military expenditure reached \$2,887 billion in the year 2025, the 11th consecutive year of growth.

<https://timesofindia.indiatimes.com/india/india-5th-largest-military-spender-at-over-92-bn-in-2025-says-sipri/articleshow/130592782.cms>

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IOS SAGAR sends strong message of collective commitment, says Indian envoy to Singapore

Source: The Pioneer, Dt. 29 Apr 2026

The coming together of 16 like-minded maritime countries for a “shared purpose” through Indian Ocean Ship SAGAR sends a strong message of “collective commitment” from our partners, the Indian envoy to Singapore said.

The IOS SAGAR, a unique operational initiative by the Indian Navy under the theme of ‘One Ocean, One Mission’ with 38 international crew members from 16 friendly countries, is visiting South East Asia for collaborative maritime security for peace and stability in coastal regions and the high seas.

“The IOS SAGAR is a practical and operational expression of vision MAHASAGAR, and it brings together partner nations on a shared platform for training, collaboration, and collective readiness,” the High Commissioner of India to Singapore, Dr Shilpak Ambule, has said in welcoming the ship and guests at a special reception held on board the vessel on Monday evening.

“Despite the prevalent complex maritime environment in the Indo-Pacific region, the coming together of 16 like-minded maritime countries for a shared purpose and collective commitment through IOS SAGAR sends a strong message of shared purpose and collective commitment from our partners in this initiative towards ensuring a free, open and inclusive Indo-Pacific,” he said

India’s maritime outlook has been shaped by the Neighbourhood First approach and Vision MAHASAGAR — Mutual and Holistic Advancement for Security and Growth Across Regions, he added. Shilpak highlighted the evolving maritime landscape, which is marked by increasing contestation.

“In such a scenario, addressing maritime challenges like Illegal, Unregulated and Unreported (IUU) Fishing, piracy and armed robbery at sea, narco and human trafficking, and emerging competition over critical resources requires collaborative approaches to ensure a free, open and secure Indo-Pacific region,” he said.

<https://dailypioneer.com/news/slug-lite/ios-sagar-sends-strong-message-of-collective-commitment-says-indian-envoy-to-singapore?year=2026>

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India and Armenia holds Military Discussions

Source: The Pioneer, Dt. 29 Apr 2026

CDS Gen Anil Chauhan held talks with Chief of the General Staff of Armenia, Lt General Edvard Asryan, in Delhi, and the two sides explored avenues for joint ventures in the development of military hardware, officials said on Tuesday.

They reaffirmed their shared commitment to a robust and future-oriented strategic partnership. The top military officer of Armenia met Gen Chauhan during his official visit to India. The meeting took place at the Manekshaw Centre in Delhi Cantonment. “General Anil Chauhan #CDS held discussions with Lt General Edvard Asryan, Chief of the General Staff of Armenia, during his

official visit to India. The General officer was received by the #CDS and was accorded a Guard of Honour,” the Headquarters Integrated Defence Staff (HO IDS) said in a post on X.

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Raksha Mantri holds bilateral meetings with his Kyrgyz, Kazakh & Belarusian counterparts in Bishkek to further strengthen defence cooperation

Source: Press Information Bureau, Dt. 28 Apr 2026

Raksha Mantri Shri Rajnath Singh held bilateral meetings with his Kyrgyz, Kazakh and Belarusian counterparts on the sidelines of the Shanghai Cooperation Organisation (SCO) Defence Ministers’ Meeting in Bishkek, Kyrgyzstan on April 28, 2026. During the meeting with the Defence Minister of Kyrgyzstan Major General Mukambetov Ruslan Mustafaevich, both sides discussed ways to strengthen the existing bilateral defence cooperation.

Raksha Mantri gifted the two Bhishm Aarogya Maitri Health Cube to the Kyrgyz side, which have been indigenously developed in India to ensure Humanitarian Assistance and Disaster Relief, and Search & Rescue during natural calamities

Shri Rajnath Singh also announced the completion of the project of provisioning of 12 sets of Computer Systems each at IT Centres of Kyrgyz Military Institute, Bishkek and Military Unit 36806-Osh, followed by the successful installation of Wargaming Software and On-the-Job Training of the Personnel of Kyrgyz Armed Forces. In his meeting with the Minister of Defence of Kazakhstan, Raksha Mantri emphasised that defence cooperation between the two countries encompasses diverse sectors and it forms an important pillar of bilateral partnership.

During the meeting with the Minister of Defence of Belarus Lieutenant General Viktor Khrenin, Shri Rajnath Singh underlined that India attaches high priority to developing mutually beneficial partnership with Belarus and identified capacity building & training as among the major areas of cooperation. In addition, Raksha Mantri briefly interacted with Defence Minister of China Admiral Dong Jun and Russian Defence Minister Andrei Belousov. During the discussions, the Ministers shared views on the regional and global security landscape in particular the developments in West Asia.

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2256403®=3&lang=1>

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Science & Technology News

आम लोग भी जा सकेंगे अंतरिक्ष के मिशन पर!

Source: NavBharat Times, Dt. 29 Apr 2026

भारत के अंतरिक्ष कार्यक्रम में एक बड़ा बदलाव देखने को मिल सकता है। अब तक जहां अंतरिक्ष यात्रियों के तौर पर सिर्फ सैन्य पृष्ठभूमि वाले टेस्ट पायलट चुने जाते थे, वहीं इसरो पहली बार आम नागरिकों के लिए भी अंतरिक्ष यात्री बनने का रास्ता खोलने जा रहा है। इसरो की कमिटी ने सिफारिश की है कि दूसरे बैच में कुल 40 अंतरिक्ष यात्री चुने जाएं। इनमें 6 मिशन पायलट सैन्य विमानन पृष्ठभूमि से होंगे, जबकि 4 सिविलियन विशेषज्ञ होंगे, जिनका बैकग्राउंड विज्ञान, तकनीक, इंजिनियरिंग और गणित यानी 87 क्षेत्रों से होगा।

गगनयान मिशन के पहले बैच में चुने गए चारों अंतरिक्ष यात्री भारतीय वायुसेना के टेस्ट पायलट थे। उससमय प्राथमिकता भारत के पहले मानव अंतरिक्ष मिशन को सुरक्षित तरीके से पूरा करना था। लेकिन अब इसरो भविष्य की जरूरतों को ध्यान में रखते हुए अपने अंतरिक्ष दल का दायरा बढ़ा रहा है।

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A novel smart oxide can store energy and also indicate the level of charge in it

Source: Press Information Bureau, Dt. 28 Apr 2026

Scientists have come up with a new material that does not just store energy but also changes colour to show that how much charge is there and the change in colour indicates a discharged cell that requires fresh charging. Everything from our phones to solar grids relies on stored power on batteries which are faster and efficient. However, most electronic devices are faced with the limitation that it can either store energy or display information, but rarely both.

Scientist from Nano and Soft Matter Sciences (CeNS), Bengaluru, an autonomous institute of Department of Science and Technology (DST), have developed an oxygen-deficient bimetallic oxide based on molybdenum and tungsten ($\text{Mo}_{0.11}\text{W}_{0.89}\text{O}_{3-x}$), a unique compound that addresses this limitation by serving both purposes. The colour change in a device made with this oxide from blue (charged state) to transparent (discharged state) shows one whether the device is in charged or discharged state. The researchers, led by Principal Researcher Dr. Ashutosh Kumar Singh, synthesized the material using a solvothermal method. The new material combined both these functions.

The science behind this unique property lies in the "oxygen-deficient" nature of the oxide. By creating a lattice where specific oxygen atoms are missing, the researchers generated extra space and active sites within the material's structure. These gaps allow ions to move freely. As the ions move to store charge, they trigger a simultaneous shift in the material's electronic structure, resulting in a visible colour change that acts as a live charge indicator.

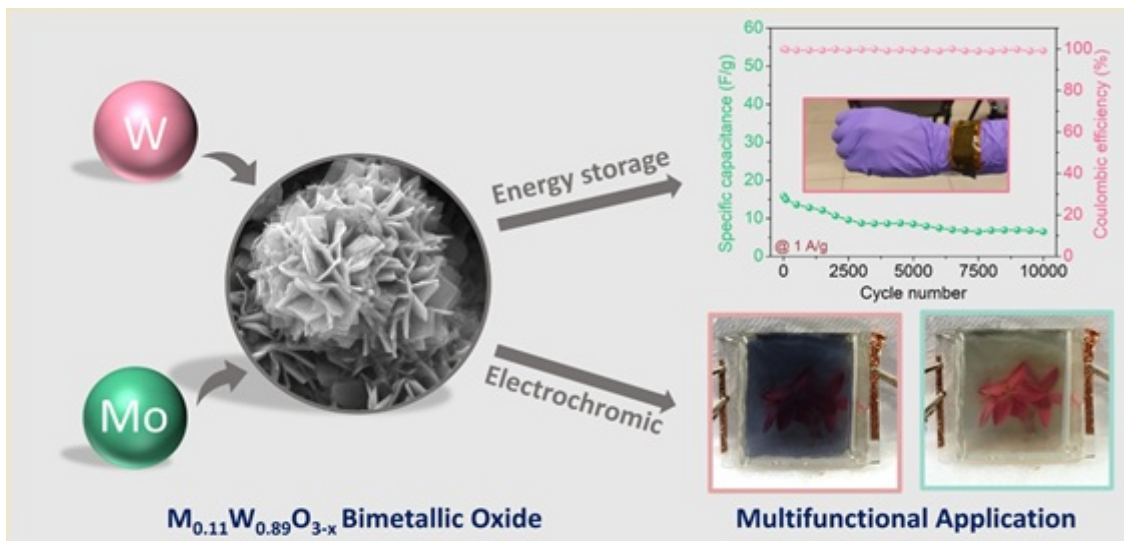


Fig: Morphology of Bimetallic oxide and its application demonstration in energy storage and electrochromic devices

The team also explored its use in electrochromic applications and fabricated large-area device (5×5 cm²) showed a high optical modulation of 43% at 700 nm with a colouration efficiency of 147 cm² C⁻¹, indicating a low power requirement to operate the window made from this material. As a supercapacitor electrode, it exhibited a specific capacitance of 234 F g⁻¹ at a current density of 5 A g⁻¹ and a remarkable areal capacitance of 975 mF cm⁻² at a scan rate of 5 mV s⁻¹.

The new material which resulted in a publication in the journal *Materials Chemistry A* demonstrated excellent cycling stability (10000 charge-discharge cycles) and retained functionality under various mechanical bending and environmental conditions. The developed material showed good optical contrast and fast switching time. The device was able to power an LCD timer and light up an LED.

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