

First-round selected (6 October 2025)

High-School Student Showcase at NanoThailand 2025

- Awards are sponsored by the National Research Council of Thailand (NRCT)
- You may **submit a VDO (mp4 format, 5-7 minutes) link** from now until **10 October 2025**
- Please complete your conference registration including payment by **10 October 2025** as we need to finalize the conference program and e-Conference book. Please be informed that only abstracts with complete registration will be included in the e-Conference book and conference program.
- Poster presentations will take place on **5 November 2025, 8:30 - 9:30 am** at the Royal Orchid Sheraton Riverside Hotel Bangkok
- Award ceremony will be held at the NanoThailand 2025 closing ceremony (5 November 2025, around 4 pm)
- Please stay tuned for updates at <https://nano-thailand.com/2025/>
- Please read FAQ (คำถามที่พบบ่อย) on the website <https://nano-thailand.com/2025/awards/>
- At least one registration including payment is required for each poster
- Each team will receive a certificate of presentation after completing their on-site presentation.

HS-01	Computational investigation of novel ultraflexible boron-oxide zeolitic frameworks
HS-02	Micropipette-assisted high-precision antisolvent dispensing system for perovskite thin-film spin-coating
HS-03	Colloidal stability and response-surface modeling of laser-induced heating in quercetin-loaded hollow porous iron oxide nanoparticles
HS-04	Development of an advanced nanostructured wound dressing from fruit peel waste for sustainable healing
HS-05	Enhancing mechanical properties of water lily cellulose-based Lithium-ion battery separators with eggshell nano-powder <i>via</i> TEMPO-oxidized paper-making process
HS-06	CatapPlus+: Development of Terminalia catappa-based bilayer hydrogel composed of sodium alginate/carboxymethyl chitosan and polyvinyl alcohol/polycaprolactone electrospun nanofibers for burn wound treatment
HS-07	Green nanoemulsion development using tea-seed residue and soapberry extracts as natural co-surfactants to reduce dependence on Tween 80: Effects of oil type, oil fraction, phenolic content and stability
HS-08	DuraSorb: Sustainable bio-polymeric adsorber derived from Durian shell
HS-09	Development of nanoemulsion-based massage spray using local <i>Justicia gendarussa</i> <i>Burm.f.</i> extract: Formulation optimization, characterization, and stability evaluation
HS-10	The study of a perfluoro octane sulfonic acid (PFOS) detection using amine functionalized carbon dots
HS-11	A study and evaluation of cotton fabrics coated with titanium dioxide (TiO ₂) nanoparticles for ultraviolet (UV) protection

HS-12	AI-driven agricultural robot with nanoencapsulated fertilizer and pesticide delivery
HS-13	A novel flow-based amine-conjugated gold nanoparticles as a sensor for salivary cortisol detection
HS-14	Development of herbal-based curcumin-zinc oxide nanoparticles for wound healing applications
HS-15	Extraction of oil from papaya seeds for innovative application in ballpoint pen ink production
HS-16	Nano-ink PUF AI vision for low-cost authentication
HS-17	Nanostructured hydrogel for floodwater detoxification
HS-18	Precipitation hardening of the additive-manufactured 17-4 PH stainless steel for medical applications
HS-19	Smart nano biosensor patch for blood-based cancer biomarkers
HS-20	Sustainable consumption and production through green catalysis of food waste in aquafeed innovation
HS-21	Synthesis of carbon quantum dots from biomass in local communities via hydrothermal process for enhancing growth rate, seed germination and salt stress tolerance during the seedling stage of rice
HS-22	Synthesis of silica nanoparticles for curcumin release as a drug delivery system for cancer treatment
HS-23	Synthesizing mesoporous silica nanoparticles from rice husk for releasing essential oils
HS-24	The development of the efficiency of Braille paper for the visually impaired using a silica coating from leftover rice husk mixed with nano ZnO
HS-25	Upcycle of marian plum and mango peels for valuable organic compounds in medicinal and material science
HS-26	Nano-enhanced natural rubber foam cushion with antifungal properties for bedridden patients
HS-27	Innovative herbal-loaded microneedles: A cutting-edge solution for psoriasis treatment
HS-28	Microwave-synthesized carbon dots with ferrite hydrogel beads as a dual-function sensor and adsorbent for tetracycline
HS-29	Encapsulated nano ferrite with graphene oxide alginate beads as green adsorbents for efficient heavy metal removal in water treatment
HS-30	From plant to particle: Alginate-based microencapsulation of roselle, monk fruit, and bamboo extracts for enhanced stability and antioxidant retention
HS-31	Development of a titanium dioxide–Soybean lecithin solution for latent fingerprint detection on wet surfaces
HS-32	<i>In vitro</i> investigation of lipid droplet accumulation response to pH, temperature and oxidative stress effect
HS-33	A preliminary study on the influence of temperature, incubation time, and plasma dilution on sensitive EGFR mutation detection via a piezoelectric biosensor for lung cancer stage diagnosis and treatment
HS-34	Development of sustainable weaning pig feed from black soldier fly larvae protein hydrolyzed with crude bromelain nanoparticles derived from pineapple waste
HS-35	Nanoencapsulation-based black soldier fly larvae oil incorporated seedling substrate for controlled water release and carbon footprint reduction

HS-36	Silverglow silvernano acne reducing cream mask
HS-37	Light phenomenon generator that produces dark-field images for use with USB digital microscope
HS-38	Theoretical analysis of selectivity in starch ester transesterification using density functional theory

Poster Presentation Guidelines

- 1) Please prepare a hardcopy poster in **portrait A0**
- 2) Abstract should be absent as it will be in the e-Abstract book
- 4) Tips for effective content
 - Scientifically correct format and content
 - Organize logically
 - Focus on the main message
 - Be concise and clear
 - Prioritize good-quality images and charts over extensive text
 - Use bullet points and short paragraphs
 - Use readable font size
- 4) Essential Sections of a Poster Presentation
 - Title, Authors, and Affiliations (logos)
 - Introduction/Background
 - Materials and Methods
 - Results
 - Conclusions/Discussion
 - References (optional)
 - Acknowledgements (optional)