

NANOMATERIALS (NANO-MATS)

NANO-MATS-P-01	Maetee Kunruga	Type-II GaSb/GaAs nanostructures grown by droplet epitaxy with various Ga amounts
NANO-MATS-P-02	Pongbordin Ukahapunyakul	Heterostructure of ZnO Nanowire Arrays on Ag thin film prepared by RF Magnetron Sputtering and Its photocatalytic activity
NANO-MATS-P-03	Panita Kasamechonchung	Controllability on Morphology of ZnO Nanowire via Critical Concentration for Nucleation and Its Photoluminescence Properties
NANO-MATS-P-04	Vorranutch Itthibenchapong	Synthesis and characterization of layered metal oxide catalyst for synthetic gasoline production
NANO-MATS-P-05	Narin Tammarugwattana	Growth and Characterizations of Tin-doped on Nickel-Phthalocyanine as a novel nanomaterial
NANO-MATS-P-06	Kitipong Mano	Study of Optical and Electrical Properties of Bismuth-Doped Copper Phthalocyanine Thin Films Grown by Thermal Co-Evaporation
NANO-MATS-P-07	Navaphun Kayunkid	Growth and Characterizations of Indium-doped Pentacene Thinfilm Prepared by Thermal Co-Evaporation as a Novel Nanomaterial
NANO-MATS-P-08	Nattapa Prapasawad	The fabrication of lateral InAs quantum dot molecules on InGaAs nanomounds by molecular beam epitaxy (MBE)
NANO-MATS-P-09	Emmanuel Nyambod Timah	Fabrication and Characterization of TiO ₂ Nanotubes for Dye-Sensitized Solar Cells
NANO-MATS-P-10	Annop Chanhom	Effect of Ga pre-deposition rate on GaAs nanowires growth by self-assisted VLS method using MBE on Si/SiO ₂ (111) substrates
NANO-MATS-P-11	Patchareewan Prongjit	Effect of SiO ₂ thickness on GaAs nanowires grown on Si (111) substrates grown by molecular beam epitaxy
NANO-MATS-P-12	Franklin Anariba	Growth and characterisation of nano-necklace type BiFeO ₃ nanofibers
NANO-MATS-P-13	Phornphimon Maitarad	How DFT Makes a Rational Design on CeO ₂ -based De-NO _x Catalysts: Experimental Confirmations of Theoretical Trends
NANO-MATS-P-14	Aroonsri Ngamaroonchote	Low Voltage Large Area Electrochromic Polymer Device
NANO-MATS-P-15	Raweevan Thiramanas	Functionalized Magnetic Nanoparticles as Adsorbents for Removal of Heavy Metal Ions from Aqueous Solution
NANO-MATS-P-16	Titapa Sumranjit	Optimization of Silkworm Diets for Functionalized Silk
NANO-MATS-P-17	Udom Asawapirom	Nanoencapsulation of diethyl-m-toluamide for mosquito-repellent application
NANO-MATS-P-18	Chutima Srisitthiratkul	Development of Chitosan/Montmorillonite Nanocomposites for Metal Ion Adsorption
NANO-MATS-P-19	Nutpapon Saranrom	Rapid Single-Step Synthesis of Aligned Carbon Nanofibers Using Microwave-Assisted Physical Vapour Deposition
NANO-MATS-P-20	Patsaya Songkhum	Controllable Shape and Phase Interconversion of Zinc Aluminum Mixed Metal Oxide Nanostructures
NANO-MATS-P-21	Apicha Thanatsiri	Cu-Modified ZnO Nanoplate as an Efficient Catalyst for Photocatalytic Reduction of CO ₂ to Methanol
NANO-MATS-P-22	Nathaporn Promros	Characterizations of n-Type Nanocrystalline Iron Disilicide/Intrinsic Ultrananocrystalline Diamond/Amorphous Carbon Composite/p-Type Silicon Heterojunction Photodiodes at Low Temperatures
NANO-MATS-P-23	Autchara Pangon	Electrospun Chitosan-Chitin Whisker Nanocomposite-Fibers: An Approach for Nanoscaffold with Hydroxyapatite Impregnation
NANO-MATS-P-24	Kannika Sitthisuwannakul	Polymer-layered Silicate Nanocomposite for Slow Released Fertilizer
NANO-MATS-P-25	Pongladda Panyajirawut	ZnO doped with Fe and Mn prepared by sol-gel method
NANO-MATS-P-26	Suteera Witayakran	Properties of Cellulose Microfibers Extracted from Pineapple Leaves by Steam Explosion
NANO-MATS-P-27	Nassara Keawkhong	Synthesis and characterisation of ZnO nanoparticles for production of antimicrobial textiles
NANO-MATS-P-28	Suwannee Sriyab	Novel Organic Donor-Acceptor Dyad for Highly Sensitive and selective Sensing of Nitroaromatic Explosives
NANO-MATS-P-29	Paitoon Sub-Udom	Self-Assembly of Carbon Nanotubes via Butane for the Synthesis of Nanocapillary Column
NANO-MATS-P-30	Delos Santos Ramon	GaAs/AlGaAs Core-shell Nanowires on Si (100) Substrate as Terahertz Emitter for Potential Imaging Applications
NANO-MATS-P-31	Suttinart Noothongkaew	The Synthesis of ZnO nanorods arrays structures on Si substrate
NANO-MATS-P-32	Montri Aiempnanakit	Effects of Deposition Time in Reactive Direct Current Magnetron Sputtering of Titanium Dioxide Thin Films
NANO-MATS-P-33	Suphachai Thipyorlaeh	X-ray Absorption near Edge Structure of Co K-edge in Ferroelectric PZT-PCN Ceramics
NANO-MATS-P-34	Pusacha Thitivorn	Fabrication of Titanium Dioxide/Magnetic Nanoparticle Embedded Polymeric Fiber and Its Use as a Catalyst in Photo-degradation of Organic Dyes
NANO-MATS-P-35	Sanchai Kuboon	CuO Nanowires Grown via Ozone-Assisted Thermal Oxidation

NANO-ELECTRONICS AND NANOSYSTEMS (NANO-ELEC)

NANO-ELEC-P-01	Weerapad Dumnernpanich	Voltage attenuator based on integration of metallic and semiconducting carbon nanotubes
NANO-ELEC-P-02	Sattra Thongma	Electrical studies of ZnO Nanowire and Metal Contacts

NANOMEDICINE AND DRUG DELIVERY SYSTEMS (NANO-MEDIC)

NANO-MEDIC-P-01	Sukanya Kreeinthong	Mechanistic Effects of Silver nanoparticles on Proliferative Signaling Pathway in the Human Skin Keratinocytes
NANO-MEDIC-P-02	Sasidharan Swarnalatha Lucky	Pre-clinical evaluation of Titania coated upconversion nanoparticles for photodynamic therapy of cancer
NANO-MEDIC-P-03	Jayanant Iemsam-arng	The investigation on the pore of abalone shell: prospective porous carrier for the controlled delivery system
NANO-MEDIC-P-04	Ratjika Wongwanakul	Effects of chitosan Quat-188, quaternized chitosan, on anti-proliferation and intestinal differentiation in Caco-2 cell model
NANO-MEDIC-P-05	Jayanart Iemsam-arng	Nanostructured Lipid Carriers from Sugarcane Wax as Delivery Systems for Cosmeceutical Products
NANO-MEDIC-P-06	Sarunya Phunpee	Inclusion Complex between water-soluble quaternized β -cyclodextrin grafted chitosan and α -mangostin: Preparation, characterization, molecular modeling and <i>in vitro</i> release
NANO-MEDIC-P-07	Kunat Suktham	Preparation and Characterization of Chitosan and Derivatives Surface-Modified PLGA Nanoparticles for Sustained Drug Delivery
NANO-MEDIC-P-08	Thongchai Koobkokkrud	Nano-Niosomes: an Advanced Permeation Enhancing System of Thai Silk Protein Extract
NANO-MEDIC-P-09	Satita Tapaneeyakorn	Generation and characterization of a novel Mig7-specific monoclonal antibody for targeted cancer therapies
NANO-MEDIC-P-10	Somsak Saesoo	Characterization of SPIONs-loading liposome for theranostics of CNS lymphoma
NANO-MEDIC-P-11	Lebogang Katata-Seru	PEG based lopinavir nano-conjugate for HIV paediatric treatment

NANOTECHNOLOGY IN HUMAN HEALTH (NANO-HH)

NANO-HH-P-01	Kannika Khantasup	Modified RNA aptamer against EpCAM for development of targeted MRI contrast agent
NANO-HH-P-02	Supunsa Kongseng	Effect of Titanium Dioxide on Cell Viability and Cell Apoptosis of Human T-lymphocytes
NANO-HH-P-03	Suwimon Boonringsiman	Superhydrophilic Surface of Titanium Prepared by Thermal Annealing for Implant applications
NANO-HH-P-04	Chinnawut Pipatpanikul	Development of non-activated surface for surface plasmon resonance imaging (SPRi) sensor-chip by epoxy silane grafted onto surface
NANO-HH-P-05	Marleane Rovi R. Ferrer	Spray-pyrolized nanocrystalline CuO thin films for potential diagnosis of diabetes
NANO-HH-P-06	M.Reddi Babu	Effect of Dy ³⁺ ion concentration on optical properties of lead borosilicate glasses for white light emission

NANOSENSOR (NANO-SS)

NANO-SS-P-01	Chanwit Kataphiniharn	PMMA Strip Test for ABO- Rh Typing
NANO-SS-P-02	Nutdanai Pakanam	Signal enhancement by nanoparticles for Alpha- fetoprotein detection
NANO-SS-P-03	Chokchai Puttharuga	Signal Enhancement of Surface Plasmon Resonance Imaging for Detection of <i>Acidovorax avenae</i> subsp. <i>citrulli</i>
NANO-SS-P-04	Thanawee Chodjarusawad	Classification of Fertilizer Solutions by Micro-Volume Voltammetric Electronic Tongue with Two Sensing Electrodes
NANO-SS-P-05	Kitti Boonperm	Determination of Unconjugated Estradiol molecules by Using Surface Plasmon Resonance (SPR) Biosensor
NANO-SS-P-06	Nakorn Niamnont	Novel salicylaldehyde derivatives as fluorescence turn-on sensors for cyanide ion
NANO-SS-P-07	Nattapong Srimuang	The Synthesis of Bis(1,4-Dihydropyridine) Derivative with Tetraethylene Glycol Linker for the Development of Fluorescent Chemosensor
NANO-SS-P-08	Jadetapong Klahan	Fabrication of Polydiacetylene Indicators for humidity sensing
NANO-SS-P-09	Jutawat Hojitsiriyant	A New 8-Aminoquinoline Derivative as "Turn-On" Fluorescent Sensor for Cd(II) ion Detection
NANO-SS-P-10	Chakrit Yimsukanan	A new quinoline derivative as "turn-on" fluorescent sensor for detection of mercury (II) ion in aqueous solution
NANO-SS-P-11	Kanokthorn Boonkitpatarakul	Phenylethynylene calix[4]arenes as fluorescence sensors for TNT
NANO-SS-P-12	Eloise Anguluan	Development of a cost-effective Raman-SERS system for nanosensing
NANO-SS-P-13	Rakchart Traiphol	Effects of Solvents and Polymerization Time on Thermochromism of Polydiacetylene Assemblies Prepared from Diamidodiacetylene Monomers
NANO-SS-P-14	Nisanart Traiphol	Role of Zn ²⁺ Ion on the Formation of Polydiacetylene/Zinc Oxide Nanocomposite
NANO-SS-P-15	Rawat Jaisutti	Effect of Doping Concentration on Polyaniline Thin Film Properties
NANO-SS-P-16	Supakorn Seetha	Controlling Concentration and Colorimetric Response of Polydiacetylene/Zinc Oxide nanocomposite by pH variation
NANO-SS-P-17	Takeya Sasaki	Development of micro-array sensor chip for Rh (D, E, and c) Blood Phenotyping via Surface Plasmon Resonance imaging (SPRi) Technique
NANO-SS-P-18	Thara Seesaard	Hand Held Electronic Nose Based Discrimination of Urine Odor for Self Diabetes Monitoring
NANO-SS-P-19	Anthony Tuico	Enhanced near-infrared photodetection of p-n junction zinc oxide nanorods on n-type silicon substrate suitable for medicinal analysis
NANO-SS-P-20	Vernalyn Copa	Cost effective zinc oxide nanorods pH sensor for agricultural applications

THEORY AND SIMULATION RELATED NANOSYSTEM (NANO-SIM)

NANO-SIM-P-01	Worasak Sukkabot	The electron-hole interactions in Si hydrogenate nanocrystals: tight-binding theory
NANO-SIM-P-02	Chompoonut Runnim	Insight into Hg removal by silver nanoparticle/titanium dioxide composite
NANO-SIM-P-03	Chirawat Chitpakdee	Effects of π -Linker, Anchoring group and Capped Carbazole at meso-Substituted Zinc-Porphyrins on Conversion Efficiency of DSSCs
NANO-SIM-P-04	Monrudee Liangruksa	Enhancing Thermoelectric Properties of Bismuth Compounds by Isoelectronic Doping
NANO-SIM-P-05	Rattanawalee Rattanawan	Theoretical Investigations of Organic D-A- π -A Sensitizers for Highly efficient Dye-Sensitized Solar Cells
NANO-SIM-P-06	Yaowarat Surakhot	Influence of Different Electron Donors, Substituted Position and Linker in Organic Sensitizers for Dye- Sensitized Solar Cells: DFT and TD-DFT Investigations
NANO-SIM-P-07	Jittima Meeprasert	Elementary Mercury Adsorption on Defective Graphene-Supported Pd Nanoclusters
NANO-SIM-P-08	Manaschai Kunaseth	A Novel Shift/Collapse Algorithm for Fast and Scalable Dynamic Many-Body Molecular Dynamics Simulation
NANO-SIM-P-09	Nikorn Shinsuphan	The photoluminescence properties of adamantane functionalized with the alkali metals group using by time-dependent density functional theory (TD-DFT) calculations:

NANOCHARACTERIZATION AND IMAGING (NANO-CH)

NANO-CH-P-01	Chuleekorn Chotsuwan	Effect of Tip-Sample Interaction on Electronic Characteristics of Metal Films by Conductive Atomic Force Microscopy
NANO-CH-P-02	Chaweewan Sapcharoenkun	Sample Preparation and Physico-Chemical Characterization of Commercial Sunscreen Products
NANO-CH-P-03	Onuma Ketchart	Investigation on three-dimensional self-assembled of cyanuric acid and melamine in aqueous phase
NANO-CH-P-04	Phawinee Nanta	An Insight Analysis of Nano Sized Crystal of Cassava Starch Granules

NANOTECHNOLOGY FOR ENVIRONMENT (NANO-ENVI)

NANO-ENVI-P-01	Pummarin Khamdabsag	Visible Photocatalyst for Degradation of Trichloroethylene
NANO-ENVI-P-02	Sanchai Kuboon	Catalytic Transfer Hydrogenation of Levulinate Esters for Production of γ -Valerolactone (GVL) on Raney Nickel
NANO-ENVI-P-03	Voranuch Somsongkul	Efficiency and Stability Enhancement of Quasi-solid-state Dye-sensitized Solar Cells Based on PEO Composite Polymer Blend Electrolytes
NANO-ENVI-P-04	Gamolwan Tumcharern	Improvement of hydrophobicity of PVDF membrane via a modified radio frequency plasma treatment method
NANO-ENVI-P-05	Anchalee Junkaew	Enhancement of Hydrogen Desorption in Mg/Nb Multilayers for Hydrogen Storage Application
NANO-ENVI-P-06	Chanita Katavut	Low-cost Electrodes Modified from Eucalyptus Biocarbons for Supercapacitor Applications
NANO-ENVI-P-07	Tanatip Sangkool	TiO ₂ Nanorod Arrays for Solar Cell Application
NANO-ENVI-P-08	Chuleeporn Luadthong	Conversion of glycerol to 1,2-propanediol via hydrogenolysis over Cu-based spinel catalysts
NANO-ENVI-P-09	Pattraporn Changsuwan	Effect of temperature and time on physicochemical of seedling media synthesized from water hyacinth via hydrothermal process
NANO-ENVI-P-10	Rungnapa Kaewmeesri	Effect of water and free fatty acid contents in chicken fat on deoxygenation toward green diesel
NANO-ENVI-P-11	Lapporn Vayachuta	Auto – Tunable Heat Reflecting Blind
NANO-ENVI-P-12	Pornthip Aunbamrung	Effect of calcination temperatures of CuO/CeO ₂ -Co ₃ O ₄ on physicochemical properties and catalytic activity to selective CO oxidation
NANO-ENVI-P-13	Evan Angelo Mondarte	ZnO/CuO Thermoelectric Nanofilms for Self-powering Integrated Devices
NANO-ENVI-P-14	Pongsak Jittabut	Effect of Nanosilica on Mechanical and Thermal Properties of Cement Composites for Thermal energy Storage Materials

NANO-APPROACH FOR GREEN TECHNOLOGY (NANO-GT)

NANO-GT-P-01	Kevin Almert Cruz	Cross-Linked Enzyme Aggregates (CLEAs) from Rice (<i>Oryza sativa</i>) as Sturdy Biocatalysts for the Transesterification of Coconut (<i>Cocos nucifera</i>) Oil with Methanol for the Preparation of Coconut Biodiesel
NANO-GT-P-02	Immanuel Silverio Rhodanne	Cross – Linked Enzyme Aggregates (CLEAs) of Lipase from Germinating Mustard (<i>Brassica juncea</i>) Seeds as Sturdy Nanobiocatalysts for the Preparation of Cocoa Butter Equivalent from Pili (<i>Canarium ovatum</i> Engl) Kernel Nut Oil
NANO-GT-P-03	Rhodanne Nicole A. Lambarte	Detoxification of Phorbol Esters in crude <i>Jatropha curcas</i> seed oil using Modified Nanosilica from Purified Rice Hull Ash
NANO-GT-P-04	Somayeh Kalanaky	Nano Iron Chelate (khazra), New Generation of Fertilizer and its Safety Aspects
NANO-GT-P-05	Supakit Paosen	Green synthesis of silver nanoparticles, Characterization, and It biological activity

NANOTECHNOLOGY FOR MANUFACTURING AND INDUSTRY (NANO-IN)

NANO-IN-P-01	Rungroj Maolanon	Quality Control of Orange Juice with Electronic Nose
NANO-IN-P-02	Akkarat Wongkaew	Effect of ZnO on a superhydrophilic self-cleaning properties of TiO ₂ /SiO ₂ thin film on glass slide substrate
NANO-IN-P-03	Pichai Soion	Investigation of Dimensionless Number Relationship of 30 mm Solid-Liquid Hydrocyclone
NANO-IN-P-04	Varol Intasanta	Research and Development on Nanofunctional Textiles for Thai SMEs
NANO-IN-P-05	Pattira Homhuan	Structural and mechanical properties of Ti-W-N thin films by dual unbalanced magnetron sputtering

NANOTECHNOLOGY IN OTHER RELATED FIELDS (NANO-OT)

NANO-OT-P-01	Sivakorn Kanharattanachai	Magnetic Valves On Demand based on Superparamagnetic Iron Oxide Nanoparticles for Microfluidic Flow Control Systems
NANO-OT-P-02	Rachada Buntam	Studies on the oxidation states of copper ion in blue silicate glass prepared from rice husk
NANO-OT-P-03	Wanida Tangkawsakul	Investigating Immobilized Antibodies for Detection of Red Blood Cell ABO Typing via long-range surface plasmon resonance (LR-SPR) biosensor
NANO-OT-P-04	Atchareeporn Smata	Amide Derivatives of 8-Aminoquinoline as “Turn on” Fluorescent Sensors for Al ³⁺ and Zn ²⁺