

Siam Physics Congress 2017

Wednesday, 24 May 2017

Poster Presentation I (15:10 - 16:00)

| [id] title | presenter | board |
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| [22] Effect of Planar Electrode Shapes on Paramecium Cell Lysis Performance in Microfluidic Systems | Ms AROONNITHI, Chanikan | |
| [387] Characterization and XPS analysis of Mn-doped calcium copper titanate thin films by a sol-gel method. | Mr JOLUTSAKUL, Pachara | |
| [85] surface water wave reconstruction using MATLAB | Mr PUSSADEE, Nirut Mr YAPO, Sitthipong | |
| [72] One step hydrothermal synthesis of CNTs-NiS films for counter electrodes in dye-sensitized solar cells | Dr MAIAUGREE, Wasan | |
| [98] The pre-service teachers understanding about moon phase. | SAENPUK, Nudchanard | |
| [172] Study Motion of PVC-Cylindrical on Incline Plane using g-Sensor Compare with Motion Simulate | Mr NGAMRUNGROJ, Dusit | |
| [15] Electrical properties and gas sensing properties of TiO ₂ /GO nanocomposites for CO ₂ sensor application | Ms CHAIYO, Pitchanunt | |
| [41] A Study of Ferrofluid Shape Formation under Influence of Magnetic Field from Various Permanent Magnet Shapes | Mr SANGHONG, Tananut Mr KAEWWICHIAN, Tanabodee | |
| [33] Liquid absorption using 3D carbon nanofiber scaffolding derived from bacterial cellulose | Mr SOMBAT, Surachat | |
| [8] A novel spectrometer based on the near-field Talbot effect | Mr SUTHAM, Withun | |
| [210] Optical tristability Investigation in Two Coupled Ring Resonators | Dr PITHAKWONGSAPORN, Santhad | |
| [119] Microfluidic System for E.coli Electroporation | SANGLAO, Jongrak | |
| [370] Charge Mobility of Organic Solar Cells using Low Cost Pulsed Laser for photo-CELIV | Mr CHANGSALAK, Sorawit | |
| [361] Selective area growth behavior of ZnO nanorod arrays in hydrothermal synthesis | SRISUAI, Nantarat | |
| [107] Design and performance of a laser-based weed control system | Mr SIRIKUNKITTI, Sirinun | |
| [281] Classical Nuclear Simulations of the $\pi^+({}^3\text{He},\text{ppn})\pi^+$ Reactions with Quantum Corrections | Dr RATANAROJANAKUL, Rachen | |
| [308] Application of Silver Nanoparticles for Natural Rubber Latex | Ms TRAIWATCHARANON, Pranlekha | |
| [100] The evaluation of laser cleaning of silica nanowires | CHUNHAKIT, Chonticha | |
| [109] The investigation of high school student's energy concept by using analogies | Mr TOEDTANYA, Khanti | |
| [187] DEVELOPING CONCEPT ON ENERGY CONSERVATION USING SIMPLE EXPERIMENTS FOR GRADE 10 STUDENTS | Mr RACHNIYOM, Sakchai Dr WUTTIPROM, Sura | |
| [194] Developing students' learning achievement and experimental skills on buoyancy and the involvement of Newton's third law through experimental set | Mr JAEWIJARN, Chokchai Dr WUTTIPROM, Sura | |
| [399] In-house development of neutron moisture gauge for field measurement | Ms SINKAEW, Parichat | |

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| [303] Electrical Properties of Ultra-thin TiO ₂ Compact Layer on FTO for Perovskite Solar cells | Ms SONGTANASIT, Ramon | |
| [307] interference of two vortex beams with different topological charge numbers | Ms CHUMDAENG, Suvipak | |
| [327] Fractal dimension of synthesized sound wave | Mr KANJANAPEN, Manorth | |
| [301] Construction of 3D Image of Surface Coated with Micro-Scale Transparent Layer by Analyzing Speckle Interferogram with Fast Fourier Transform | Mr DUANGKLANG, Parinya | |
| [230] Effect of Surfactant Concentration to Aggregations of Nanogold Particles. | Ms DUANGTHANU, Methawee | |
| [113] Frequency Distribution of Specific Activities and Radiological Hazard Assessment in Surface Beach Sand Samples Collected from Bangsaen beach in Chonburi Province, Thailand | CHANGKIT, Nopparit | |
| [132] Dead and living yeast cells analyzer using electrical force induction | Prof. BUNTHAWIN, Sakshin | |
| [178] Cholesterol Effect on Physical Properties of Niosome Bilayers: A Molecular Dynamics Study | Mr TEMPROM, Likit | |
| [153] Study of tilapia's egg permeabilization with the optimized electrical parameters | Prof. BUNTHAWIN, Dr.Sakshin | |
| [385] Permeation of Beta Cyclodextrin and its Derivatives into the Lipid Membrane | Ms KHUNTAWEE, Wasinee Ms NALAKARN, Pornkamon | |
| [223] Effect of MnO ₂ morphology on electrochemical capacitance of supercapacitor electrode | Mr PHAKKHAWAN, Authit | |
| [226] Study of formaldehyde molecule adsorption on pristine, defect and functionalized carbon nanotubes by self-consistent charge density functional tight-binding method | Mr TIMSORN, Kriengkri | |
| [253] Fabrication of carbon sphere film as a supercapacitor electrode | Ms THONGKHEM, Suklitta | |
| [263] A facile method for Electrospinning of Chitosan/PVA /Siam weeds Nano fibers | Mr PRANEEKIT, piriya | |
| [277] Optical properties of DC sputtered titanium dioxide/gold thin films | Mr SITTISHOKTRAM, Manas | |
| [311] Characterization of Ag doped WO ₃ synthesized by electrospinning | Mr KAMSRI, Jananan | |
| [336] Yttrium doped TiO ₂ nanotubes prepared by anodization method | Ms CHAIYARAT, Watchareeya | |
| [373] Stretchable strain sensor based on metal nanoparticles-Polydimethylsiloxane nanocomposites | Dr THIWAWONG, Thutiyaporn | |
| [363] A Nonlinear Transfer Matrix Method for Third-Harmonic Generation Modeling in a One-Dimensional Metal-Dielectric Photonic Band-Gap Structure | WICHARN, Surawut | |
| [168] Stoichiometry and Performance in PCDTBT:Perylene Solar Cells | Ms WANNAKAN , Sathongsang | |
| [369] Stoichiometry and Performance in PCDTBT:Perylene Solar Cells | Ms SATHONGSANG, Wannakan Ms THUBTHONG, Kanyaporn | |
| [5] Quantum reflection in the linearly downward potential | Mr CHAMNAN, Noppasin Dr KRUNAVAKARN, Boonlit | |
| [6] Simple Harmonics Motion experiment based on LabVIEW interface with Arduino | Dr TONG-ON, Anusorn SAPHET, Parinya Dr THEPNURAT, Meechai | |
| [169] Investigating Student understanding of Simple harmonic motion | WATTANAKASIWICH, Pornrat | |
| [271] Single-mirror, off-axis schlieren system's sensitivity determination | Mr KETAIAM, Kittisak | |
| [49] Study of the efficiency calibrations of HPGe detector for the PGNA system | Mr RATANATONGCHAI, Wichian | |

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| [76] Development of Dielectric Barrier Discharge for Reducing Microbial Contamination in Pepper (<i>Piper nigrum</i>) and Sesame (<i>Sesamum indicum</i> Linn.) Powder | PROMPING, Jiraporn | |
| [323] Gamma Ray Evaluation of Fast Neutron Irradiated on Topaz from Sri Lanka by HPGe Gamma Ray Spectrometry | Ms BOONSOOK, Kanokwan | |
| [375] Isotopic Composition of Precipitation at Ongkharak District, Nakhon Nayok Province | Mr SAENKORAKOT, Chakrit | |
| [71] Developing dye sensitized solar cells with natural dyes and polymer electrolytes | SEESAD, Wachira | |
| [62] Dependence of contact angle on deposition time for superhydrophobic carbon nanoparticles films | Dr SAKULSERMSUK, Sumet | |
| [162] Effect of Membrane Tension on Physical Properties of Niosome Bilayers: A Molecular Dynamics Study | Ms SOMJID, Saowalak | |
| [195] Characteristic of sputtered Co ₇₅ Ag ₂₅ film on various under-layer and polyimide substrate | SANGANAN, Nittaya | |
| [214] Hardness Enhancement on Stainless Steel Surface by Coating Graphene Film Using Thermal Chemical Vapor Deposition | RUAMMAITREE, Akkawat | |
| [291] Diamond-like carbon films prepared by RF magnetron sputtering | Ms LOMON, Jidapa Ms CHAIYABIN, Ponthip | |
| [283] Vacuum Vaporization Technique for Latent Fingerprints Development on Thermal Papers using Lawsone Natural Products | Mr PHUNGYIMNOI, Noparat | |
| [299] Effect of annealing conditions on polycrystalline silicon produced by the inverted aluminum induced crystallization of amorphous silicon films on glass substrates. | Ms KESRISOM, Kanyarat | |
| [376] Effect of sputtering power on the properties of co-sputtered Zr-Ti-W metal alloy thin films | Mr KOWONG, Rattanachai | |
| [150] Surface study of irradiated sapphires using AFM | MONARUMIT, Natthapong | |
| [384] The effects of Fe-doping concentration in Ba _{1-x} Fe _x TiO ₃ thin films on their microstructure and magnetic properties | Mr AMATYAKUL, Witheetat | |
| [408] First-principles study of H ₂ adsorption on two-dimensional C ₂ N sheet | Mr NETRATTANA, Pongdet | |
| [7] One dimensional two-body collisions experiment based on LabVIEW interface with Arduino | SAPHET, Parinya Dr TONG-ON, Anusorn Dr THEPNURAT, Meechai | |
| [40] Observation of Spin Seebeck Effect in Bulk Strontium Ferrite | Mr SUKSAWAT, Champ | |
| [349] Biocompatibility of TiO ₂ , TiN and TiNO Thin Films Deposited by DC Reactive Magnetron Sputtering | Ms VACHABUSKORN, jita | |
| [23] Fabrication and Physical Properties of Titanium Nitride/Hydroxyapatite Composite on Polyether Ether Ketone by RF Magnetron Sputtering Technique | NUPANGTHA, Wasin | |
| [244] Preparation of strontium- and/or zinc-doped hydroxyapatite nanoparticles and their polycaprolactone composite fibrous scaffolds | Mr PANTASRI, Teeranat | |
| [276] liposomes fabrication using vortex rings generated microfluidic device | Mr SANIN, Sorawit | |
| [397] Fission Product Behavior in High-Temperature Water: CsI vs MoO ₄ | Dr KANJANA, Kotchaphan | |
| [325] Learning Particle Physics with DIY Play Dough Model | Ms THUNYANITI, Thittima | |
| [69] Low Cost and Disposable Lab on a Chip | Mr SAENKHAMAI, Anan | |

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| [139] Viability determinations of yeast cells using translational dielectrophoretic speeds | Prof. BUNTHAWIN, Sakshin | |
| [143] Minimization of the synthetic androgen 17Alpha-methyltestosterone hormone for sex reversal of Nile tilapia eggs using electrical technique | Prof. BUNTHAWIN, Dr.Sakshin | |
| [146] Verification of electrical inductions of O.niloticus egg with physiological membrane pores | Prof. BUNTHAWIN, Dr.Sakshin | |
| [157] Simulations of induced transmembrane potentials of tilapia's egg using Hen egg RC-model | Prof. BUNTHAWIN, Dr.Sakshin | |
| [227] Effect of Electromagnetic Fields on oil Palm Germination | □□□□□□□ □□□□□□□, □□.□□. | |
| [232] Study on Inverse Laplace Transform of NMR relaxation signal of Sticky rice. | Mr MALEELAI, Nattawoot | |
| [320] Improving of QRS complex detection in ECG signal Using Combination of Fourier Transform and Wavelet method | REUNGYOS, Jutarop | |
| [330] Development of the teaching sound frequency with Sing Sharp mobile phone and pipe pressure for KARAOKE subject | Mr OUNSUMRAN, thienchai | |
| [389] Flipped Classroom Enhances Students' Performance in Physics Learning | Mr CHANGSUPHAN, Prakasit | |
| [20] Performance of ZnO-doped recycled window glass as a thermoluminescence dosimeter | Ms THUMSA-ARD, Thanaporn | |
| [268] The Measurement of Thermal Diffusivity in Conductor and Insulator by Photodeflection Technique | ACHATHONGSUK, Uthed | |
| [167] Charge Mobility of Organic Solar Cells using Low Cost Pulsed Laser for photo-CELIV | Mr CHANGSALAK, Sorawit | |
| [396] SYNTHESIS OF CaCu ₃ Ti ₄ O ₁₂ BY MODIFIED SOL-GEL METHOD WITH HYDROTHERMAL | Dr MASINGBOON, Chivalrat | |
| [155] Investigation of L-H-L Transitions Criteria and Hysteresis Based on Bifurcation Concept | Mr DANG-IAD, APISIT | |
| [173] Effect of Dielectric Barrier Discharge Plasmas Treatment on Egg Shell | Dr POOLYARAT, Nopporn | |
| [335] Development of X-ray fluorescence technique for tin oxide analysis | BOONPRATUM, Chalongwut | |
| [400] Development of Neutron Imaging System for Neutron Tomography at Thai Research Reactor TRR-1/M1 | Dr WONGLEE, Sarinrat | |
| [32] Mechanical properties of cement paste containing iron powder | Mr CHUEWONGKAM, Nattapong | |
| [193] Effect of Copper Oxide Nanoparticles as a barrier for Efficiency Improvement in ZnO Dye-Sensitized Solar Cells | Ms SONTHILA, Anongnart | |
| [218] Adsorption study of gas molecules on ZnO decorated carbon nanotubes | Mr SEEKAEW, Yotsarayuth | |
| [273] Stability and Electronic property of Vacancy Defects in Silicon Carbide Nanosheet based on DFTB | Ms ARAYAWUT, Onsuda | |
| [374] Optimization of Copper Surface as a Substrate for CVD growth of Graphene | INTARO, Taworn | |
| [339] Improved Efficiency of Polymer Solar Cells by mean of Coating Hole Transporting Layer as Double Layer Deposition | Ms CHONSUT, Teantong | |
| [365] Optical and Structural Properties of Dye Sensitized Composite Semiconductor Photoanode | Ms WANGCHAROEN, Kamonchanok | |
| [112] DIY Low Cost Thick Lenses kit Applied Teaching of Parallel light rays passing through lenses in either direction in Physics | Dr THEPNURAT, Meechai | |

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| [207] The determination of the energy values and the composition analysis of M-16 rifle black powders | Ms SATEE, Rewattee | |
| [313] The sound education by applying mathematica program. | Mr PREMKAMON, Thanapon | |
| [355] Selected Screen for Engaging Students in Projectile Motion | Mr DRAMAE, Ar-si | |
| [42] Application of tapered glass capillary microbeam in MeV-PIXE mapping of longan leaf for elemental concentration distribution analysis | YU, Liangdeng Dr PUSSADEE, Nirut Mr NATYANUN, Sirawut | |
| [127] Enhance of hydrophilicity property for gas separation membrane by DC plasma | Mrs RUANGDIT, Soraya | |
| [161] Application of atmospheric-pressure argon plasma jet for bread mold decontamination | Dr THONGLOR, Panakamon | |
| [333] Measurement and Analysis of Specific Activities of Radionuclide ^{40}K , ^{226}Ra and ^{232}Th in Beach Sand Samples from Talo kapo beach Yaring District in Pattani Province using Gamma Ray Spectrometry | Ms MHUDCHUDCHU, Yameela Ms TAMAT, Areeya Ms MASAE, Masae Ms PAO-OH, Supeeya | |
| [60] Preparation of aluminum doped zinc oxide thin films on glass substrate by sparking process and their optical and electrical properties | Mr SUKEE, Anupong | |
| [204] Influence of Under-layers morphology on Structural and Magnetic Properties of Sputtered $\text{Co}_{81}\text{Pd}_{19}$ Film. | PONCHAIYA, Pairin | |
| [248] Gas Sensing Response of Nickel Doped Calcium Copper Titanate Thin Films Synthesized by Sol-gel Method | Ms BOONTUM, Arisara | |
| [249] Modification of Calcium Copper Titanate Thin Films by Adding Ag Compounds and their H_2S Gas Sensing Response | Mr NATKAE0, Aukrit | |
| [382] Tuning of Preparational Factors Affecting the Morphological Structure and Gas Separation Property of Asymmetric Polysulfone Membranes | Dr YUENYAO, Chalad | |
| [279] Microstructure of $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}/\text{SrTiO}_{3}$ and $\text{CaCu}_{3}\text{Ti}_{4}\text{O}_{12}/\text{BaTiO}_{3}$ multilayered thin films grown on LaAlO_{3} (100) substrates for dielectric tunability | Mr SUKMAS, Wiwittawin | |
| [332] Influence of Thermal Annealing Process on Vanadium Oxide Thin Films for Metal-Insulator Transition Enhancement | Mr JESSDALUK, Sukittaya | |
| [338] Control the Crystal Growth of Al-doped ZnO Thin Film Prepared by Pulsed Laser Deposition and The Influences on Its Optical and Electrical Properties | Mr KHEMASIRI, Narathon | |
| [381] Hydrophobic thiol-ene surfaces fabricated via plasma activation and photo polymerization | CHAMPATHET, Peera | |
| [247] Conceptual Study of Possibility for Droplets to Achieve Superheated in Edge Tokamak Plasmas | Dr SOMBOONKITTICHAJ, Nopparit Dr COPPINS, Michael | |
| [356] Torque Induced on Lipid Microtubules with Optical Tweezers | Dr CHATTHAM, Nattaporn | |

Poster Presentation I (15:10 - 16:00)**Poster Presentation I (15:10 - 16:00)**