



# Siam Physics Congress 2015

## Thursday, May 21, 2015

### Poster-3 (1:00 PM - 4:30 PM)

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[8] CdS/CdSe Co-sensitized on Different TiO <sub>2</sub> Morphologies and its Application to Quantum Dot-sensitized Solar Cells (QDSSCs)	Ms BUATONG, Nattha	MNA-C1
[21] Micro-structural Investigation of InGaAsN Lattice-matched Films Grown on Off-angle Ge (001) Substrates by MOVPE	Mrs WANARATTIKAN, Pornsiri	MNA-C2
[30] Synthesis and Characterization of Vanadium Oxide Film by Sparking Method for Thermochromic Application	Mr THONGPAN, Winai	MNA-C3
[31] Photocatalytic Properties of Hydrogenated Titanium Dioxide Thin Films Prepared by Sparking Method	Ms POOSEEKHEAW, Porntipa	MNA-C4
[41] Lifetime Span Comparison of Self-Cleaning Glass Annealed by Laser and Furnace Heat Treatments	Ms PANTHAWAN, Arisara	MNA-C5
[48] Microstructure and Impedance Properties of Sr <sub>0.4</sub> Ca <sub>0.6</sub> La <sub>4</sub> Ti <sub>5</sub> O <sub>17</sub> Ceramics Doped with ZnO	Ms SRIKEAWNAWAN, Supunnee	MNA-C6
[56] Sonochemical Synthesis of ZnO Nanospheroid	Dr PHOLNAK, Chat	MNA-C7
[66] Characterization of Ce <sub>1-x</sub> Pr <sub>x</sub> O <sub>2</sub> was Synthesized by a Co-precipitate Method.	Mr NGIEWLAY, Pilan	MNA-C8
[69] Effect of Annealing on Magnetic Properties of SrTi <sub>1-x</sub> Co <sub>x</sub> O <sub>3</sub> Nanoparticles Prepared by Hydrothermal Method	Mr KARAPHUN, Attaphol	MNA-C9
[71] Enhanced Dielectric Response in Na <sub>1/3</sub> Bi <sub>1/3</sub> Ca <sub>1/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /PVDF Composites by Filling with Ni Nanoparticles	Ms KUM-ONSA, Pornsawan	MNA-10
[72] Effects of Oxygen Vacancies on Dielectric Properties of Na <sub>1/2</sub> Bi <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics Prepared by a Urea Combustion Method	Mr TUICHAI, Wattana	MNA-11
[80] Structural Investigation of Strontium Lead Silicate Glass Prepared from Silica Gel Waste Using Ultrasonic and FTIR Spectroscopy	Ms GUNHAKOON, Pattaranipa	MNA-12
[81] The Effect of Calcination Temperature on the Dielectric Properties of (1-x)BaZr <sub>0.25</sub> Ti <sub>0.75</sub> O <sub>3</sub> +xSrFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> ceramics	Ms TAWEE, Lalita	MNA-13
[82] The Study of Fuel Pellet from Cassava	Ms RITTISUT, Wipakorn	MNA-14
[84] Effect of Temperature on Electrical Properties of BaCeO <sub>3</sub> Ceramics	Mr BOOTHRAWONG, Narongdetch	MNA-15
[86] Influences of Sn Doping and CaTiO <sub>3</sub> Volume Fraction on Microstructure and Electrical Response of Sn-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /CaTiO <sub>3</sub> Composites	Mr JUMPATAM, Jutapol	MNA-16
[87] Gamma-ray Shielding and Structural Properties of P <sub>2</sub> O <sub>5</sub> -BaO-Bi <sub>2</sub> O <sub>3</sub> Glass System	Mr SAINET, Sarinthonthep	MNA-17
[91] The Effect of Calcination Temperature on the Properties of the NiO Films	Mr PIMSAWAT, ADULPHAN	MNA-18

[96] The effect of ZnO on the kinetic parameters of thermoluminescence window glass exposed to photon irradiation	Ms THUMSA-ARD, Thanaporn	MNA-19
[104] Education fuel pellets made from cassava and coffee grounds.	Mrs WONGSAMAT, Kamonrat	MNA-20
[107] The Effect of Doping $\text{Cu}^{2+}$ on Elastic and Structural Properties of Thermoluminescent Glass 90RWG – $10\text{Na}^{2+}$ – $x\text{Cu}^{2+}$	Mr JAICHUEAI, Yutthachai	MNA-21
[108] Structural and elastic properties investigation of recycle silica gel glass by FTIR and ultrasonic technique	Mr SOPAPAN, Poonnaphob	MNA-22
[110] The Equipment for Crystal Growth Based on the Hydrolysis Technique	Mr DOKPRATOOM, Chalermwong	MNA-23
[116] Effects of Reagent Concentration and Ultrasound in the Co-precipitation Synthesis of Maghemite Nanoparticles Studied by Synchrotron X-ray Absorption Spectroscopy	Mr TANGWATANAKUL, Witoon	MNA-24
[119] Synthesis, Optical and Magnetic Properties of $\text{CuCr}_{1-x}\text{Fe}_x\text{O}_2$ Delafossite Oxide	Ms TADDEE, Chutirat	MNA-25
[122] Effect of Fabrication Method on the Structural and Magnetic Properties of Copper Ferrite	Ms PONGPADUNG, Siriwipa	MNA-26
[128] Investigation of Elastic Property of Thermoelectric Materials Prepared by Bridgman Method	Ms ARMART, Kanyaphach	MNA-27
[139] Production of Biodiesel through Transesterification of Palm Oil Using Waste Eggshells Catalyst	Ms INTHANONT, Juthamas	MNA-28
[140] Effects of Zn Substituted on the Structure of Hydroxyapatite Synthesized from Waste Chicken Eggshells	Ms PAIKAEW, Chutharat	MNA-29
[143] Strongly Enhanced Dielectric Response and Dielectric Relaxation in $\text{BaTiO}_3/\text{poly}(\text{vinylidene fluoride})$ Nanocomposites	Ms SILAKAEW, Kanyapak	MNA-30
[144] Thermal and Electrical Properties of $\text{P}_{2.5}\text{O}_{5}\text{-CaO-Na}_{2}\text{O}$ Glass Containing $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$	Ms INTAWIN, Pratthana	MNA-31
[147] Crystallization and Dielectric Properties of $\text{Nd}^{3+}$ Doped Ferroelectric Glass-Ceramics in the $\text{Na}_{2}\text{O-BaO-Nb}_{2}\text{O}_{5}\text{-SiO}_2$ System	Mr BOONSONG, Paitoon	MNA-32
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[152] Effect of Annealing Temperature on the Magnetic Properties of Fe Doped $\text{SrTiO}_3$ Nanoparticles	Mr WANNASEN, Likkhasit	MNA-34
[158] Synchrotron X-ray Absorption Spectroscopy Study of Local Structure in Hydroxyapatite Doped by Strontium	Mr BOOTCHANONT, Atipong	MNA-35
[160] Preparation and dielectric properties of poly (vinylidene fluoride hexafluoropropylene) fibers	Ms NAWAKA, Kanokwan	MNA-36
[164] Influence of $\text{LiSbO}_3$ on Microstructure and Electrical Properties of $\text{Bi}_{0.5}(\text{Na}_{0.80}\text{K}_{0.20})_{0.5}\text{TiO}_3$ Ceramics	Ms WANNASUT, Pimpilai	MNA-37
[165] Synthesis of Gold Nanorods with Different Aspect Ratios for Sensing Applications	Ms NGERNPIMAI, Sawinee	MNA-38
[173] Characterization and Magnetic Properties of Fe-doped MgO Nanoparticles	Dr PHOKHA, Sumalin	MNA-39
[175] Effects of Substrate Materials on Optical Behavior of ZnO:Al Film Prepared by RF-sputtering	Ms KHEANWONG, Jantree	MNA-40
[177] Fabrication of Electrospun $\text{LiFePO}_4/\text{Carbon}$ Composite Fibers as a Cathode Material for Lithium-ion Batteries	Ms HONGTONG, Rattiya	MNA-41

[178] Effect of Annealing in Reducing Atmosphere on Dielectric Properties of $\text{CaCu}_{1-x}\text{Ti}_x\text{O}_{12}/\text{CaTiO}_3$ Composites	Ms NACHAITHONG, Theeranuch	MNA-42
[179] Synthesis and Electrochemical Properties of $\text{SnO}_2$ Nanostructures via a Hydrothermal Method for Li-ion Batteries.	Ms BUEKEAW, sunisa	MNA-43
[180] Characteristics of AZO/Ag/AZO Tri-layer Film by RF-sputtering	Mr KHUMMANEE, Yuttapichai	MNA-44
[184] Nano-materials from Rice Husks for Lithium Ion Battery Applications	Mrs CHAIKAWANG, Chirapan	MNA-45
[186] Fabrication of $\text{CsSn}_{1-x}\text{F}_x$ Doped with ZnO for Photogenerated Holes in Solid-state Dye-sensitized Solar Cells	Ms ARDCHONGTHONG, Pornpanarat	MNA-46
[187] Characterization and Analyzation of Chitosan from Paphia Undulate Shell	SIRIPROM, Wichian	MNA-47
[188] Synthesis Thermoelectric Material $\text{Mg}_2\text{Si}$ by Quartz Tube Vacuum Furnace from Starting Mg Powder and $\text{SiO}_2$ Rice Husk	KHOWJALERN, Phonlakit	MNA-48
[194] Fabrication and mechanical properties of doped-hydroxyapatite composite.	TP, Likit	MNA-49
[199] WS <sub>2</sub> Nanoparticles and Multiwalled Carbon Nanotubes Counter Electrode for Dye-sensitized Solar Cells	Ms KAEWPHAISAN, Ladavan	MNA-50
[209] New Dye Sensitizers from Anthraquinone Derivatives for Application in Dye-Sensitized Solar Cells: a DFT Study	Mr TONTAPHA, Sarawut	MNA-51
[211] Comparative Study of Effects of Metal Oxides Modifications on Properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.9}\text{Ti}_{0.1}\text{O}_3$ Ceramics	Dr PROMSAWAT, Methee	MNA-52
[215] The Study of Spin Seebeck Effect on Iron Alloy.	Mr SUKSAWAT, Champ	MNA-53
[220] Study of Thermoelectric Structure Prepared by Hydrothermal Method	Mrs KAMONPHA, Phitsamai	MNA-54
[239] Enhancing the Cycling Stability of $\text{SnO}_2$ Hollow Spheres for a Li-ion Battery Anode by Titanium Dioxide Coating	KAEWMALA, Songyoot	MNA-55
[240] Simulation and Design High-temperature Microwave Furnace for Thermoelectric Material Synthesis	Mr BOONTHUM, Direk	MNA-56
[241] Phase Transition of $\text{LiMn}_{0.85}\text{Cr}_{0.15}\text{PO}_4$ Cathode Material by In-Situ Time-Resolved XANES	Mr PONGHA, Sarawut	MNA-57
[244] Fabrication of Porous Ceramics for Controlling the Release of Bioactive Compounds in Combating Bee Parasites in Bee Hive	INTATHA, Uraiwan	MNA-58
[245] Metal Decorations on Graphene as a Hydrogen Storage Material	Mr WONGPRAKARN, Suphagrid	MNA-59
[250] Effect of Sintering Temperature on Behavior of Grain Shape and Grain Growth of $\text{Zn}_{0.97}\text{Cu}_{0.01}\text{V}_{0.02}\text{O}$ Ceramics	BUESA, Mareenee	MNA-60
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[259] Effect of $\text{Eu}^{3+}$ Concentration on Crystallization and Luminescence Properties of $\text{CaO-MgO-Al}_2\text{O}_3\text{-SiO}_2\text{-ZnO}$ Glass-Ceramics	Ms SENANON, Wipada	MNA-62
[280] Dielectric Properties of 0-3 Barium Zirconate Titanate-Portland Cement Composites at 40% BZT Content with Carbon Addition	Dr POTONG, Ruamporn	MNA-63
[282] Improvement of Mechanical Properties of Rattan Fiber-reinforced/Carbon Nanotube/Epoxy Resin Composites by Alkaline Treatment Method	Mr PATTANAKITKASET, Priyavit	MNA-64
[291] Controlled Growth of ZnO Nanostructures in Hydrothermal Process on ZnO Seeds Layer Synthesized with Different Precursor Concentrations	Mr SIRIPHONGSAPAK, Nontakoch	MNA-66
[294] The Effect of CaO from Cassava Rhizome to Structural and Elastic Properties of Strontium-borate Glass Systems	Mr LAOPAIBOON, Raewat	MNA-67

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<b>[301] Strain modification of MOVPE grown cubic GaN on GaAs (001) with GaN/AlGaN multi-interface buffer layer</b>	Mr MOPOUNG, Kunpot	MNA-69
<b>[303] Formation and Structure of <math>ZrO_{2}</math> Added Hydroxyapatite Synthesized from Waste Eggshells</b>	Mr SANGMALA, Aekgaran	MNA-70
<b>[306] Preparation and Characterization Chitosan/Hydroxyapatite Composites from Waste for Bio-applications</b>	Mr BOONPRATUM, Chalongwut	MNA-71
<b>[314] Synthesis and Characterization of Iron-doped Hydroxyapatite by Sol-Gel Method</b>	Dr KLINKAEWNARONG, Jutharatana	MNA-72
<b>[341] Substrate Surface Orientation Dependent GaN Grown on GaAs by MOVPE</b>	Mr PRAIGAEW, Pitshaya	MNA-73
<b>[355] Improvement of Bar Bonding Method for Heat-Assisted Magnetic Recording Head</b>	Mr PHETSAHAI, Apiwat	MNA-74
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