

POSTER I

Chairperson:

- PI-1. **BLUE AND GREEN EMITTING Eu^{2+} DOPED $\text{Ca}_2\text{MgSi}_2\text{O}_7$ PHOSPHORS FOR WHITE-LIGHT EMITTING DIODES**
T. T. H. Tam, N. D. T. Kien, N. D. Hung, N. Du, N. T K Lien, N Tu, N. D. Chien, P. T. Huy
Advanced Institute for Science and Technology (AIST), Hanoi University of Science and Technology (HUST), Hanoi, Vietnam
- PI-2. **THE EFFECT OF ANNEALING TEMPERATURE AND PH ON SHAPE, CRYSTAL SIZE AND OPTICAL PROPERTIES OF MnWO_4 SYNTHESIZED BY THE CHEMICAL MICROWAVE-ASSISTED METHOD**
Danh Bich Do, Pham Van Hanh, Pham Van Hai, Nguyen Thi Len, Nguyen Thi Van, and Luc Huy Hoang
Hanoi National University of Education
- PI-3. **STUDIES LUMINESCENCE OF Mn^{2+} IN THE $\text{MAl}_2\text{O}_4:\text{Mn}^{2+}$ AND THE INFLUENCE OF Ce^{3+} IN THE PERSISTENCE TIME OF $\text{MAl}_2\text{O}_4:\text{Mn}^{2+}$ (M:Ba,Ca,Mg,Sr,Zn)**
Le Van Thanh Son, Nguyen Van Cuong, Ngac An Bang, Nguyen Trong Thanh
Da nang University of Education
- PI-4. **FERROMAGNETISM IN SOL-GEL COMPOSITES $\text{XCoFe}_2\text{O}_4\text{-(1-X)PbTiO}_3$, Le Thi Mai Oanh and Nguyen Van Minh**
Hanoi National University of Education
- PI-5. **THE OPTICAL AND ELECTRICAL PROPERTIES OF ZnO AND ZnO:Ag THIN FILMS DEPOSITED BY SPRAY PYROLYSIS METHOD**
Pham Van Vinh and Le Minh Son
Hanoi National University of Education
- PI-6. **RAMAN STUDY OF TITANIUM DIOXIDE PREPARED BY HYDROLYSIS ROUTE**
Nguyen Cao Khang, Do Minh Thanh, Nguyen Khanh Hoa, Phung Kim Phu and Nguyen Van Minh
Hanoi National University of Education
- PI-7. **SYNTHESIS AND STUDY MATERIALS BiFeO_3 MULTIFERROICS BY DIFFERENT CHEMICAL METHODS**
Dao Viet Thang, Nguyen Van Minh and Du Thi Xuan Thao
University of Mining – Geology, Hanoi
- PI-8. **EFFECTS OF MANUFACTURING TECHNOLOGY ON THE STRUCTURAL AND OPTICAL PROPERTIES OF SM-DOPED ZnWO_4 ,**
Nguyen Manh Hung, Du Thi Xuan Thao and Nguyen Van Minh
University of Mining – Geology, Hanoi

- PI-9. **COLORS OF GRAPHENE (REDUCED GRAPHENE OXIDE) MULTILAYERS ON A SiO₂(300nm)/Si SUBSTRATE**
Tran Quang Trung, Duong Van Long, Tran Viet Cuong, Huynh Tran My Hoa
Ho Chi Minh City University of Science, VNU HCM City
- PI-10. **VISIBLE EMISSION FROM ZnO DOPED WITH RARE-EARTH IONS**
Nguyen Thi Hao, Le Vu Tuan Hung
Ho Chi Minh City University of Science, VNU HCM City
- PI-11. **USING A HOME-MADE ULTRA-SHORT PULSE I-V MEASUREMENT SYSTEM FOR CHARACTERIZING CHARGE-TRAPPING BEHAVIOR IN MOS DEVICES**
Tran Quang Nguyen, Tran Minh Dao, Tran Quang Trung
Ho Chi Minh City University of Science, VNU, HCM City
- PI-12. **THE INFLUENCE OF SPUTTERING POWER ON PHOTOELECTRIC CHARACTERIZATION OF n-ZnO:In/ p- Si HETEROJUNCTION GROWN BY DC MAGNETRON SPUTTERING**
Tran Thi Thuy, Dao Anh Tuan, Le Vu Tuan Hung
Ho Chi Minh City University of Science, VNU, HCM City
- PI-13. **ADVANCED OPTICAL AND ELECTRICAL PROPERTIES OF TRANSPARENT CONDUCTIVE MULTILAYER FILMS BASED ON THE CONTINUITY OF AG LAYER**
Tran Hoang Cao Son, Le Phuc Quy, Le Hoang Nam, Vu Thi Hanh Thu, Le Tran and Nguyen Nang Dinh
Ho Chi Minh City Institute of Physics, VAST
- PI-14. **THE P3HT: PCBM RATIO EFFECT ON PROPERTIES OF BULK-HETEROJUNCTION INORGANIC- ORGANIC SYSTEM OF ITO/ZnO FILM /P3HT: PCBM**
Son Hoang Cao Tran, Quoc Kien Luu, Ngoc Pham Kim, Top Khac Le, Nhan Thuc Chi Ha, Dinh Nang Nguyen, Hieu Van Le
Ho Chi Minh City Institute of Physics, VAST
- PI-15. **USING A HOME-MADE μ TAS SYSTEM FOR CHARACTERIZING THE QUENCHING PHENOMENA OF PCBM IN MEH-PPV CONJUGATED POLYMER SOLUTION**
Tran Hong Nhan, Tran QuangTrung
Ho Chi Minh City University of Science, VNU, HCM City
- PI-16. **FABRICATED ZnO:Sb THIN FILMS BY THE SOL – GEL METHOD**
Dang Vinh Quang, Bui Thi Thu Hang, Tran Tuan and Dinh Son Thach
Ho Chi Minh City University of Science, VNU HCM City
- PI-17. **INVESTIGATION OF OPTICAL PROPERTIES OF SrAl₂O₄:Eu²⁺ AND SrAl₂O₄:Eu²⁺ CO-DOPED Dy³⁺ PHOSPHORS SYNTHESIZED BY COPRECIPITATION METHOD**

N.V. Du, N. T. Huy, Nguyen Tu, T. T. H. Tam, L. T. Ha, D. Q. Trung, N. D. Hung, and P. T. Huy

Advanced Institute for Science and Technology (AIST)Hanoi University of Science and Technology (HUST)

PI-18. FORBIDDEN FREQUENCY BANDGAP OF HIGH IMPEDANCE SURFACE STRUCTURES

Tran Manh Cuong, Ho Tuan Hung, Vuong Van Cuong

Hanoi National University of Education, Ha Noi

PI-19. PHOTOLUMINESCENCE PROPERTIES AND JUDD- OFELT ANALYSIS OF Eu³⁺ IONS IN TELLURITE GLASSES

Tran Thi Hong, Phan Tien Dung, Vu Xuan Quang and Phan Van Do

Da Nang University of Education

PI-20. Composition dependence of spectroscopic and structural properties of the Eu³⁺ ions in the heavy metal glasses

Ho Van Tuyen, Huynh Ngoc Toan, Seng-Thoong, Vu Xuan Quang, Ngo Van Tam

Duy Tan University, Da Nang

PI-21. AUTOFLUORESCENT PROPERTIES OF LIVER

Nguyen Thi Khanh Van, Nguyen Dinh Hoang, Nguyen Cong Thanh, Nguyen Thanh Binh

Institute of physics, VAST

PI-22. COMPARATIVE STUDY ON OPTICAL PROPERTIES OF CdSe/ZnS AND CdZnSe/ZnSSe ALLOY QUANTUM DOTS

Nguyen Hai Yen, Nguyen Ngoc Hai, Vu Thi Hong Hanh, Le Van Vu, Ngo Quang Minh, Bùi Huy, Nguyen Xuan Nghia and Pham Thu Nga

Institute of Materials Science, VAST

PI-23. SYNTHESIS ZnO – CuO NANOCOMPOSITE AND THEIR PHOTOCATALIC ACTIVITY

Nguyen Dang Phu, Nguyen Van Hung, Nguyen Thi Thuy and Danh Bich Do

Hanoi National University of Education

PI-24. RAMAN STUDY OF THE VARIABILITY IN NANOMECHANICAL BEHAVIOUR OF SILK FIBRES

Dinh Hung Manh, Vu Thi Yen and COLOMBAN Philippe

Hanoi National University of Education

PI-25. SYNTHESIS AND ENHANCED LUMINESCENCE OF INDIUM PHOSPHIDE NANOCRYSTALS

Ho Minh Trung, Nguyen Duy Thien, Le Van Vu, Nguyen Ngoc Long and Truong Kim Hieu

Ho Chi Minh University of Science, VNU HCM City

PI-26. THE OPTICAL PROPERTIES OF ZnS:Cu/POLYVINYL PYRROLIDON

NANOCOMPOSITE SYNTHESIZED BY CHEMICAL METHOD

Vu Thi Thanh Loan, Dang Van Thai , Tran Minh Thi, Pham Van Ben

Hanoi National University of Education

- PI-27. **PHOTOCATALYTIC COMPOSITES BASED ON Zn_2SnO_4 AND CARBON NANOTUBES**
Nguyen Thi Khanh Hoa, Do Minh Thanh, Nguyen Cao Khang, Phung Kim Phu and Nguyen Van Minh
Hanoi National University of Education
- PI-28. **THE EFFECTS OF THE TEMPERATURE AND TIME SHELL GROWTH TO OPTICAL PROPERTIES OF TYPE II CdS/ZnSe CORE/SHELL NANOCRYSTALS**
Nguyen Xuan Ca, Nguyen Trung Kien and Nguyen Xuan Nghia
University of Science – Thai Nguyen University
- PI-29. **THE MICROWAVE ASSISTED SYNTHESIS AND CHARACTERIZATION OF NiWO_4 NANOPARTICLES**
Pham Van Hanh, Pham Thi Da Nguyet, Pham Van Hai and Luc Huy Hoang
Hanoi National University of Education
- PI-30. **STUDY OF SIMULATED RAMAN SCATTERING EFFECT IN THE SILICA-ALUMINA FIBERS**
Pham Thanh Son, Nguyen The Anh, Nguyen Thuy Van, Bui Huy, Ha Xuan Vinh, Bui Trung Ninh and Pham Van Hoi
Institute of Materials Science, VAST
- PI-31. **FIBER BRAGG GRATING SENSORS WITHOUT WAVELENGTH MEASUREMENT**
Nguyen The Anh, Pham Thanh Son, Nguyen Thuy Van, Hoang Thi Hong Cam, Ngo Quang Minh, Bui Huy and Pham Van Hoi
Institute of Materials Science, VAST
- PI-32. **OPTICAL PROPERTIES OF SPHERICAL ZnS**
Dinh Son Thach and Nguyen Van Tho
Ho Chi Minh University of Science, VNU HCM City
- PI-33. **SYNTHESIS AND APPLICATION OF GRAPHENE-SILVER NANOWIRES “COMPOSITE” FOR AMMONIA GAS SENSING,**
Tran Quang Trung, Huynh Tran My Hoa, Tong Duc Tai, Tran Van Tam, Nguyen Nhat Quang,
Ho Chi Minh University of Science, VNU HCM City
- PI-34. **PREPARATION OF SILVER NANOPARTICLES WITH PULSE LASER 1064nm**
Luu Mai Loan, Le Thi Quynh Anh, Phan Thanh Nhat Khoa, Dang Mau Chien
Ho Chi Minh University of Science, VNU HCM City
- PI-35. **SYNTHESIS AND CHARACTERIZATION OF CdSe/ZnS CORE/SHELL**

QUANTUM DOTS FOR BIOSENSOR APPLICATIONS

Vo Thi Ngoc Thuy, Nguyen Thanh Phuong, Nguyen Thi Ha Trang, Lam Quang Vinh

Ho Chi Minh University of Science, VNU HCM City

- PI-36. **THE STUDY OF PHOTOCATALYTIC PROPERTIES OF TiO₂ BASED NANOCOMPOSITE MATERIAL BY MEAN OF THE OPTICAL SPECTROSCOPIES**
Nguyen Thi Mai Huong, Le Thi Thu Huong, Hoang Chung Hieu, Le Van Truyen, Tran Thi Duc, Vu Thi Bich and Nguyen Trong Tinh
Institute of Applied Physics and Scientific Instrument VAST
- PI-37. **SYNTHETIC STUDY OF ZnO NANOPARTICLES EMBEDDED IN TRIETHANOL AMINE USING A WET CHEMICAL METHOD**
Nguyen Van Hien, Tran Quynh, Pham Hai Dinh, Pham Tan Thi, Dinh Son Thach
Ho Chi Minh University of Science, VNU HCM City
- PI-38. **EFFECT OF PHOSPHINE-FREE SELENIUM PRECURSOR SOLUTION FOR SEMICONDUCTOR NANOCRYSTAL GROWTH**
Nguyen Thi Luyen, Nguyen Xuan Nghia, Nguyen Kien Cuong, Nguyen Thi Thuy Lieu
University of Science – Thai Nguyen University.
- PI-39. **OPTICAL PROPERTIES OF Mn HEAVILY DOPED ZnO NANOPARTICLES PREPARED BY HYDROTHERMAL METHOD**
Nguyen Tu, Nguyen Van Dung, Nguyen Duy Hung, Do Van Nam and Pham Thanh Huy
Advanced Institute for Science and Technology (AIST), University of Science and Technology (HUST,) Hanoi
- PI-40. **SYNTHESIS AND OPTICAL PROPERTIES OF ONE-DIMENSIONAL ZnS/ZnO NANOSTRUCTURES**
Do Quang Trung, Pham Thanh Huy, Nguyen Duy Hung, Nguyen Tu, Le Thi Thu Huong and Tran Ngoc Khiem
Advanced Institute for Science and Technology (AIST), University of Science and Technology (HUST,) Hanoi
- PI-41. **LIFETIME SHORTENING IN COPPER DOPED ZINC SULPHIDE NANOCRYSTALS**
Tri Tuan Nguyen, Trung Kien Nguyen Duc, Duy Hung Nguyen and Thanh Huy Pham
Advanced Institute for Science and Technology (AIST), University of Science and Technology (HUST,) Hanoi
- PI-42. **MORPHOLOGIES AND PHOTOLUMINESCENCE PROPERTIES OF ZNO NANOSTRUCTURE FABRICATED BY TWO – STEP PROCESS**
Dinh Thi Mong Cam, Tran Ngo Bao Ngoc, Vu Duc Lan, Pham Nguyen Nhat Minh, Nguyen Thanh Binh
Ho Chi Minh University of Science, VNU HCM City
- PI-43. **GROWTH AND OPTICAL PROPERTIES OF SELF-ORGANIZED PLASMONIC**

SILVER NANOPARTICLES ARRAYS

Vu Duc Chinh, Michael Caminale, Francesco Bisio and Maurizio Canepa

Institute of Materials Science, VAST, Hanoi

PI-44. **OPTICAL TRAPPING OF COLD NEUTRAL ATOMS BY USING THE NANOTUBES**

Nguyen Thi Phuong Lan, Do Thi Nga and Nguyen Ai Viet

Hanoi Pedagogical University 2, Xuan Hoa, Vinh Phuc

PI-45. **OPTICAL PROPERTIES OF Eu^{2+} - DOPED $\text{BaO.MgO.Al}_2\text{O}_3$ PHOSPHOR PREPARED BY COMBUSTION METHOD**

Nguyen Trong Thanh, Vu Thi Thai Ha, Nguyen Manh Son

Institute of Materials Science, VAST

PI-46. **EFFECT OF ANTIMONY DOPING PERCENTAGE ON OPTICAL AND ELECTRICAL PROPERTIES OF TRANSPARENT CONDUCTING THIN FILM p TYPE ANTIMONY-DOPED TIN DIOXIDE (ATO)**

Nguyen Si Hoai Vu, Dang Huu Phuc, Le Tran, Le Van Hieu

University of Science, VNU-HCM

PI-47. **THE ROLE OF FLUORINE AND ALUMINUM IN LUMINESCENCE SPECTRA OF EUROPIUM DOPED BORO-TELLURITE GLASSES**

Phan Thi Viet Ha, Nguyen Thi Thuy Nhung, Nguyen Thi Xuan Dieu, Nguyen Phuoc The, Ngo Van Tam

Duy Tan University, Danang

PI-48. **INVESTIGATION OF OPTICAL PROPERTIES ON Sm^{3+} DOPED K_2YF_4 POLYCRYSTALLINE**

Doan Tuan Anh, Ngo Thi Huong, Vu Phi Tuyen, Phan Van Do, Nguyen Duc Van, Nguyen Trong Thanh

Institute materials of Science, VAST, Hanoi

PI-49. **OPTICAL AND STRUCTURAL PROPERTIES OF ZnO FILMS GROWTH ON SILICON SUBSTRATE BY MOCVD**

Nguyen Thanh Binh

Institute of Physics –VAST