

**HỘI NGHỊ QUANG HỌC QUANG PHỔ
TOÀN QUỐC LẦN THỨ 10 (HNQHQP-10)**

Hall C

November 12, 2018 (Monday)

Chairperson:

Prof. Nguyen Manh An (*Hong Duc Uni., Thanh Hoa*)

Dr. Pham Hong Minh (*IOP, VAST, Ha Noi*)

(C-01)

13:30 – 13:55

**PHASE CONTROLLED ALL-OPTICAL SWITCHING IN
A CLOSED-LOOP THREE-LEVEL LAMBDA SYSTEM**

(Invited talk)

Luong Thi Yen Nga, Hoang Minh Dong, Nguyen Huy Bang

Vinh Uni., 182 Le Duan Street, Vinh City, Vietnam.

(C-02)

13:55 – 14:10

**IMPROVEMENT OF THE AEROSOL OPTICAL
PROPERTIES RETRIEVING FROM THE COMBINED
ELASTIC-RAMAN LIDAR WITHOUT USING THE
NUMERICAL DERIVATIVE METHOD**

Nguyen Xuan Tuan, Dinh Van Trung, Bui Van Hai

Institute of Physics, VAST, 18 Hoang Quoc Viet, Hanoi, Vietnam

(C-03)

14:10 – 14:25

**PHOTOLUMINESCENCE STUDY ON POINT DEFECTS
IN THERMOELECTRIC ZnO MATERIALS**

**Anh Tuan Thanh Pham, Truong Huu Nguyen, Kieu Hanh Ta
Thi, Dung Van Hoang, Vinh Cao Tran, Kim Ngoc Pham,
Thu Bao Nguyen Le, Dung Hoang, Vinh Quang Lam and
Bach Thang Phan**

Uni. of Sci., VNU HCM City, 227 Nguyen Van Cu, HCM city, VN

(C-04)

14:25 – 14:40

**PHOTOLUMINESCENCE AND
THERMOLUMINESCENCE PROPERTIES OF Zn_2SiO_4 :
 Mn^{2+} PREPARED BY HIGH-ENERGY PLANETARY
BALL MILLING TECHNIQUE**

Le T.T.Vien, Nguyen Tu and Pham.T. Huy

AIST, HUST, No. 1, Dai Co Viet, Hanoi, Vietnam

(C-05)

14:40 – 15:55

**A COMPACT SETUP FOR GENERATION OF MULTI-
EIT IN A Rb ATOMIC GASEOUS MEDIUM**

**Nguyen Van Ai, Le Canh Trung, Phan Van Thuan, Dinh
Xuan Khoa, and Nguyen Huy Bang**

Vinh Uni., 182 Le Duan street, Vinh City, Vietnam

(C-06)

14:55 – 15:10

**INVESTIGATE THE ADSORPTION AND
PHOTOCATALYTIC PROPERTIES OF TITANIUM OXIDE
NANOTUBE AND GRAPHENE COMPOSITE.**

**Nguyen Xuan Sang, Tran Thi Mai Thy, Phan Tan Dat, Vo
Cao Minh, Nguyen Huu Tho, Nguyen Thi Quynh Trang.**

Saigon Uni., 273 An Duong Vuong, Ho Chi Minh City, Vietnam

15:10 – 15:25

Coffee break

Chairperson:

Pro. Nguyen Huy Bang (Vinh Uni., Nghe An)

Dr. Phan Van Do (Thuy loi Uni., Ha Noi)

(C-07)

15:25 – 15:50

**SURFACE - ENHANCED RAMAN SCATTERING
PERFORMANCE OF SILVER/ GRAPHENE QUANTUM
DOTS/SILICA NANOCOMPOSITES**

(Invited talk)

**Tran Cong Khanh, Tran Quoc Vinh, Pham Ngoc Bao Tri,
Tran Thi Thanh Van**

*University of Science, VNU HCM, 227 Nguyen Van Cu, HCM
city, VN*

(C-08)

15:50 – 16:05

WHISPERING GALLERY MODE LASING FROM BIOCOMPATIBLE MICROSPHERES

Ta Van Duong, Nguyen Van Thiet, Duong Chi Dung, Phan Nguyen Nhue, Le Hoang Hai

Le Quy Don Uni., 236 Hoang Quoc Viet, Hanoi, Vietnam

(C-09)

16:05 – 16:20

CLINICAL SURGERY ON ANIMAL BY ARGON PLASMA COAGULATION

Le Huy Tuan, Nguyen Tuan Anh, Giang Manh Khoi, Chu Thi Minh Hoa

Center of Laser Technology, NACENTECH, C6 Thanh Xuan Bac, Thanh Xuan, Hanoi, Vietnam

(C-10)

16:20 – 16:35

SYNTHESIS OF SILVER NANOPARTICLES BY USING POLYSCIAS LEAVES EXTRACT AND SILVER NITRATE SOLUTION

Le Ngoc Liem, Nguyen Phuoc The, Nguyen T X Dieu

Duy Tan University, Danang, Vietnam

(C-11)

16:35 – 16:50

THE AFFECTING OF OLEIC ACID ON THE STRUCTURAL PROPERTIES OF NaYF₄: Er, Yb LUMINESCENT UPCONVERSION NANOPARTICLES

Cao Thi My Dung, Tran Thi Thanh Van

University of Science, VNU HCM City, 227 Nguyen Van Cu, HCM city, Vietnam

(C-12)

16:50 – 17:05

LATERAL COUPLING STRUCTURE CONSISTS OF SOI SLOT PHOTONIC CRYSTAL CAVITY AND SLOT PHOTONIC CRYSTAL WAVEGUIDE TOWARDS INDEX SENSING

Thi Hong Cam Hoang, Eric Cassan

USTH, VAST, 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam

(C-13)

17:05 – 17:20

**COUPLED RING RESONATORS WITH TWO-GAUSSIAN
COUPLING**

**Nguyen Duy Cuong, Cao Long Van , Dinh Xuan Khoa ,
Marek Trippenbach**

*Industrial University of Vinh, 26 Nguyen Thai Hoc, Vinh City,
Vietnam.*

HỘI NGHỊ QUANG HỌC QUANG PHỔ TOÀN QUỐC LẦN THỨ 10 (HNQHQP-10)

Hall C

November 13, 2018 (Tuesday)

Chairperson:

Prof. Le Hoang Hai (*Le Quy Don Uni., Ha Noi*)

Dr. Chu Van Bien (*Vinh Uni. Nghe An*)

(C-14)

08:30 – 08:55

**OPTICAL CHARACTERIZATION OF THIN FILMS BY
USE OF TRANSMISSION DATA**

(invited talk)

**Van Huy Mai, Chi Dung Duong, Hoang Hai Le, Dinh Bao
Bui, Nguyen Nhue Phan, Minh Khai Doan, Minh Hue
Nguyen, Alexandre Jaffré, Olivier Schneegans**

Le Quy Don Uni., 236 Hoang Quoc Viet, Hanoi, Vietnam

(C-15)

08:55 – 09:10

**CRYSTAL STRUCTURE, ELECTRONIC AND
PHOTOCATALYTIC ACTIVITY OF NANO
CRYSTALLINE ZnO DOPED IONS TRANSITION
METAL Mn²⁺**

Nguyen Minh Quan, Nguyen Huu Tho, Nguyen Xuan Sang

Saigon Uni., 273 An Duong Vuong, Ho Chi Minh City, Vietnam

(C-16)

09:10 – 09:25

**FABRICATION AND TESTING OF LARGE APERTURE
MIRROR FOR LIDAR MEASUREMENTS OF THE
UPPER ATMOSPHERE**

**Pham Dong Bang, Dinh Van Trung, Tran Ngoc Hung, Bui
Van Hai**

Institute of Physics, VAST, 18 Hoang Quoc Viet, Hanoi, Vietnam

(C-17)

09:25 – 09:40

EXTRACTION OF NANOCELLULOSE AND SYNTHESIS OF CuO/CELLULOSE NANOCOMPOSITE AS PHOTO-FENTON CATALYSTS IN THE PRESENCE OF HYDROGEN PEROXIDE

Vu Nang An, Tran Thi Thanh Van, Pham Van Viet, Ha Thuc Chi Nhan, Le Van Hieu

University of Science, VNU HCM City, 227 Nguyen Van Cu, HCM city, Vietnam

(C-18)

09:40– 09:55

DEFECT-DRIVEN PHOTO-GENERATED CARRIER RELAXATION IN THE BINARY ALLOYS OF SiGe NANOCRYSTALS

Ngo Ngoc Ha

ITIMS, HUST, No.1 Dai Co Viet Str., Hanoi, Vietnam

(C-19)

09:55 – 10:10

EFFECT OF MAGNETIC FIELD ON THE OPTICAL PROPERTIES OF A SIX-LEVEL INVERTED Y-TYPE ATOMIC MEDIUM

Le Nguyen Mai Anh, Dinh Xuan Khoa, Le Van Doai, and Nguyen Huy Bang

Vinh University, 182 Le Duan Street, Vinh City, Vietnam.

10:10 – 10:25

Coffee break

Chairperson:

Prof. Nguyen Xuan Nghia, IOP, VAST, Ha Noi

Dr. Nguyen Xuan Sang, Saigon Uni, HCM city

(C-20)

10:25 – 10:50

LOW-POWER SEMICONDUCTOR LASER THERAPY FOR THE TREATMENT OF TYPE 2 DIABETIC FOOT ULCERS

(Invited talk)

Tran Minh Thai, Tran Thien Hau, Ngo T.Thien Hoa, Le TrongDai

HCM Uni. of Tech., 268 Ly Thuong Kiet, HCM city, Vietnam

(C-21)

10:50 – 11:15

PROPERTIES OF PHOTONIC CRYSTAL FIBERS WITH CORE FILLED CARBON DISULFIDE

(Invited talk)

Quang Ho Dinh, Hieu Le Van, Khoa Dinh Xuan, Van Cao Long, Quy Ho Quang, Bien Chu Van, Thi Dung Nguyen, Luu Mai Van.

Vinh Uni., 182 Le Duan, Vinh City, Vietnam.

(C-22)

11:15 – 11:30

HYBRID ORGANIC – INORGANIC NANOCOMPOSITES BASED RESISTIVE SWITCHING MEMORY

Kim Ngoc Pham, Kieu Hanh Ta Thi, Hung Hai Nguyen, Minh Trang Nguyen Thi, Thi Y Dang, Bach Thang Phan

University of Science, VNU HCM City, 227 Nguyen Van Cu, HCM city, Vietnam

(C-23)

11:30 – 11:45

DETERMINATION OF DIAMETER OF POLYSTYRENE MICROSPHERES USING TRANSMISSION SPECTROSCOPY

T. V. Nguyen, T. H. L. Nghiem, N. T. Nguyen, H. M. Nguyen

Le Quy Don Uni., 236 Hoang Quoc Viet, Hanoi, Vietnam

(C-24)

11:45 – 12:00

THE EFFECT OF Ga CONCENTRATION ON STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF SnO₂:Ga (GTO) FILMS

Tung Thanh Nguyen, Hieu Van Le, Phuc Huu Dang, and Tran Le

University of Science – VNU Ho Chi Minh City, Vietnam, 227 Nguyen Van Cu St., Ward 4, District 5,

(C-25)

12:00 – 12:15

A SIMPLE AND HIGHLY SENSITIVE SERS SENSOR BASED ON AU NANOPARTICLES PREPARED BY LASER ABLATION FOR DETECTION OF MALACHITE GREEN AND AMOXICILLINE AT TRACE CONCENTRATIONS

Ngo Gia Long, Nguyen Nhu Anh, Nguyen Quang Dong, Nguyen The Binh

Univer. of Science, VNU-Hanoi, Hanoi, Vietnam

(C-26)

12:15 – 12:30

**BIOSENSOR BASED ON ARRAY OPTICAL NANO-
ANTENNAS WITH CORE-SHELL STRUCTURES**

Nguyen Ngoc Son, Vu Thi Ngoc Thuy, and Chu Manh Hoang

ITIMS, HUST, No1, Dai Co Viet, Hanoi, Vietnam.

12:30 – 13: 30

LUNCH

13:30-17:30

POSTER SESSION II

Chairperson:

Dr. Tae Joong Eom (APRI, GIST, R. Korea)

Dr. Kohei Yamanoi (Osaka University, Japan)

Dr. Vu Duong (IOP, VAST, VN)

Chairperson:

Prof. Phan Bach Thang, VNU HMC city

Dr. Vu Duong, IOP, VAST, Hanoi

(C-27)

13: 30 – 13: 55

**ENERGY TRANSFER AND WHITE LIGHT EMISSION
OF K₂GdF₅ CRYSTAL CO-DOPED WITH Tb³⁺/Sm³⁺ IONS**

(Invited talk)

**Phan Van Do, Luong Duy Thanh, Nguyen Xuan Ca, Vu Phi
Tuyen, Nicholas M. Khaidukov, Nguyen Thi Nga**

Thuy Loi University, Hanoi, Vietnam.

(C-28)

13: 55 – 14: 10

**OPTIMIZATION FOR FLAT NORMAL DISPERSION IN
A SUSPENDED-CORE FIBERS INFILTRATED WITH
WATER**

**Bien Chu Van, An Manh Nguyen, Hieu Van Le, Van Cao
Long, Quang Ho Dinh.**

Hong Duc Uni., 565 Quang Trung Street, Thanh Hoa City, Vietnam

- (C-29)
- 14: 10 – 14: 25 SYNTHESIS OF TRIANGULAR SILVER NANOPARTICLES BY PHOTOREDUCTION METHOD**
- Pham Van Viet, Nguyen Thi Hong Nhung, and Cao Minh Thi**
- University of Science – VNU-HCM, 227 Nguyen Van Cu, HCM city, Vietnam*
- (C-30)
- 14: 25 – 14:40 CONTROLLING THE TRANSMISSION LINE SHAPE OF FILTERS BASED ON SIDE-COUPLED RESONATORS IN SLOTTED TWO DIMENSIONAL PHOTONIC CRYSTALS**
- Thu Trang Hoang, Quang Minh Ngo**
- Institute of Materials Science, VAST, 18 Hoang Quoc Viet, Hanoi, VN.*
- (C-31)
- 14: 40 – 15:55 COMPARISON OF CHARACTERISTICS QUANTITIES OF PHOTONIC CRYSTAL FIBER WITH HOLLOW CORE INFILTRATED NITROBENZENE AND TOLUENE AT 1064 NM FOR SUPERCONTINUUM GENERATION**
- Nguyen Quang Vu, Dang Thuy Linh, Nguyen Thi Trang, Nguyen Thi My Linh, Dang Thi Linh Chi, Le Thi Kim Ha, Nguyen Dinh Thu, Nguyen Thi Hong Yen, Chu Van Lanh**
- Vinh Uni., 182 Le Duan Street, Vinh City, Viet Nam*
- (C-32)
- 14: 55 – 15:10 ENHANCED THE VISIBLE LIGHT DRIVEN PHOTOELECTROCHEMICAL WATER SPLITTING BASED ON MULTI-MODIFICATION OF ZnO NANOROD**
- Khoa Huu Nguyen, Van Cat Ha Nguyen, Thi Ngoc Huyen Lai, Thi My Hoa Nguyen, Yen Nhi Ho, Thi Kim Ngan Ho, Thi Thao Nguyen Nguyen, Bach Thang Phan, and Vinh Quang Dang**
- University of Science, VNU HCM City, 227 Nguyen Van Cu, HCM city, Vietnam*
- 15: 10 – 15: 25 Coffee break**

Chairperson:

Prof. Tran Minh Thi (*Hanoi Uni of Edu. Hanoi*)
Dr. Do Hoang Tung (*IOP, VAST, Hanoi*)

(C-33)

15:25 – 15:50

MATERIALS FOR NUTRITION AND HUMAN HEALTH SECURITIES

(Invited talk)

Pham Van Huong

IMS University Bordeaux, 351 Cours Liberation, Bordeaux/Talence 33405, France

(C-34)

15:50 – 16:15

EDGE EFFECT OF TRUNCATED DIRAC SOLITONS IN BINARY WAVEGUIDE ARRAYS

(Invited talk)

Tran Xuan Truong

Le Quy Don Uni., 236 Hoang Quoc Viet, Hanoi, Vietnam

(C-35)

16:15 – 16:30

HIGH-QUALITY OPTICAL FILTER IN VISIBLE RANGE BASED ON THE INTERFERENCE OF TWO DIFFERENT PHASE WAVES IN TWO-DIMENSIONAL PHOTONIC CRYSTAL SLABS

Nguyen Van An, Ngo Quang Minh, Pham Van Hoi

GUST, VAST, 18 Hoang Quoc Viet, Vietnam

(C-36)

16:30 – 16:45

BROADBAND LASER-DRIVEN GENERATION OF ENTANGLED STATE BY A NONLINEAR COUPLING COUPLER PUMPED IN ONE MODE

Luong Thi Tu Oanh, Chu Van Lanh, Cao Long Van, Nguyen Thi Dung and Doan Quoc Khoa

Quang Tri Teacher Training College, Quang Tri, Viet Nam

(C-37)

16:45 – 17:00

A SIMPLE METHOD OF SHORTENING ULTRAFAST LASER PULSES USING FUSED SILICA PLATES.

Duong Vu, Totaro Imasaka

Institute of Physics, VAST, 18 Hoang Quoc Viet, Hanoi, Vietnam

(C-38)

17:00 – 17:15

**MAGNETO - OPTICAL SWITCHING IN A
DEGENERATED TWO-LEVEL ATOMIC SYSTEM
UNDER ELECTRO- MAGNETICALLY INDUCED
TRANSPARENCY AND ZEEMAN EFFECTS**

Luong Thi Yen Nga, Hoang Minh Dong, Nguyen Huy Bang

Vinh University, 182 Le Duan Street, Vinh City, Vietnam.

(C-39)

17: 15 – 17:30

**MODEL KEILSON - STORER AND THE
SPECTROSCOPIC PARAMETERS IN THE NEAR-
INFRARED OF THE PURE WATER VAPOR WITH
HARTMANN-TRAN PROFILE**

H.T. Nguyen, C.T. Le, N.H. Ngo

*Hanoi National Uni. of Education, 136 Xuan Thuy, Hanoi,
Vietnam*

