

PLENARY SPEAKERS

1. Otto Wolfbeis,

University of Regensburg, Germany

Nanomaterial-based Fluorescent Biosensing and Imaging

2. Raymond Wai-Yeung Wong,

Hong Kong Baptist University, China

Molecular materials for NLO, OLEDs and organic solar cells

3. Kishan Dholakia,

University of St Andrews, Scotland, UK,

Advanced optical manipulation exploiting materials science

INVITED SPEAKERS

(in alphabetic order)

1. Alok Srivastava, GE Global Research, USA,

Luminescence of Bi^{3+} in solids

2. Georges Boulon, Claude Bernard/Lyon1 University, France

Optical properties of transparent ceramics

3. Andries Meijerink, Utrecht University, The Netherlands

Energy transfer in rare-earth doped systems

4. Luís António Dias Carlos, University of Aveiro, Portugal

Joining heating and thermometry in single nanoplateforms

5. Claudia Wickleder University of Siegen, Germany

Novel Energy-Saving (Nano) Phosphors

6. Thomas Thundat, University of Alberta, Canada

Nanomechanics of photothermal and photoacoustic spectroscopy

7. Setsuhisa Tanabe, Kyoto University, Japan

Novel red persistent phosphors developed by band gap engineering

8. Luis Seijo, Universidad Autonoma Madrid, Spain

Intervalence charge transfer luminescence: Ab initio calculations and configuration coordinate diagram

9. John Capobianco, Concordia University Montreal, Canada

Near infra-red Light Mediated Drug Release and Photodynamic Therapy

10. Jean-Luc Adam, Institut de Sciences Chimiques, Rennes, France,

Optical chalcogenide glasses, fibers, and devices

11. Kazushige Ueda, Kyushu Institute of Technology, Japan,

Luminescence of Ln^{3+} -doped perovskite-type oxide thin films

- 12. Enrico Cavalli**, University of Parma, Italy
Optical spectroscopy of fluoride and oxide host lattices activated with Dy³⁺
- 13. Marina Popova**, Institute of spectroscopy RAS, Moscow, Russia
Fascinating optical properties of the copper metaborate
- 14. Richard Moncorge**, CIMAP, Caen, France
Rare-earth-doped fluoride laser crystals: recently explored exotic properties
- 15. Mikhail Brik**, University of Tartu, Tartu, Estonia
Spectroscopy of transition metal ions in solids - theoretical modeling
- 16. Andrei Naumov**, Institute of Spectroscopy, Russian Academy of Sciences, Russia
Fluorescence spectromicroscopy of myriad single dye molecules in solid matrices: tool for hyperspectral material nanodiagnosics
- 17. Malgorzata Guzik**, University of Wroclaw, Poland
Nd³⁺, Eu³⁺ and Yb³⁺ ions as structural probes in the scheelite-type cadmium molybdate with vacancies
- 18. Philippe Smet**, Ghent University, Belgium
Cathodoluminescence in electron microscopy: from phosphor evaluation single particle analysis
- 19. Dariusz Hreniak**, Polish Academy of Sciences in Wrocław, Poland
Spectroscopic properties of Sr₂CeO₄ nanocrystals co-doped with rare-earth ions
- 20. Sandra Helena Pulcinelli**, São Paulo State University, Brazil
Nucleation, aggregation and growth of quantum dots prepared by sol-gel chemistry

ICOM 2015

The 4th International Conference on the Physics of Optical Materials and Devices, 31st August-4th September 2015, Budva, Montenegro

Conference Chairpersons

Miroslav Dramićanin, Bruno Viana and Rachid Mahiou

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Conference info

The official conference language is English.

The total time allocated for presentation: 40 min for Plenary lecture, 30 min for Invited lecture, and 15 min for Oral presentation.

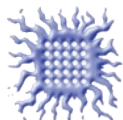
Social program includes: Welcome reception and Conference dinner. The Welcome reception will take place by the pool at the Hotel Tara on Monday 31th August at 7:30 pm. The Conference dinner will be held on the boat Pariskotor on Wednesday, 2nd September at 6.00pm.

The Conference web site is www.icomonline.org

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Chimie ParisTech (École nationale supérieure de chimie de Paris)



Institut de Chimie de Clermont-Ferrand

Conference Topics

- Luminescent materials: new luminescent materials, new synthesis techniques, new phenomena
- Hybrid optical materials (organic/inorganic)
- Low-dimensional systems, quantum dots, single molecule and single-particle spectroscopy
- Characterization techniques of optical materials
- Luminescence mechanisms and energy transfers
- Theory and modeling of optical processes
- Ultrafast-laser processing of materials
- Optical sensors
- Medical imaging and bioimaging
- Advanced optical materials in photovoltaics and biophotonics
- Devices: lasers and amplifiers, LED and OLED, plasmonic light sources, photovoltaics
- Photothermal and photoacoustic spectroscopy and phenomena

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ICOM 2015

The 4th International Conference on the Physics of Optical Materials and Devices, 31st August-4th September 2015, Budva, Montenegro

Sunday (3.08)	Sunday (3.08)	Monday (31.08)	Tara		Tuesday (01.09)	Tara	
		08:00-08:55	Registration		08:00-08:55	Registration	
		09:00-09:10	Opening Ceremony		09:00-10:40	S 7	
		09:10-10:50	S 1				
		10:50-11:10	Coffee Break		10:40-11:30	Poster Session II	
		11:10-12:40	S 2		11:30-13:00	S 8	
		12:40-12:45	Break		13:00-13:15	Conference Photo	
		12:45-13:35	Poster Session I		13:15-16:00	Break	
		13:35-16:00	Break				
16:00-19:45	Registration	16:00-17:45	S 3 (Tara)	S 5 (Montenegro)	16:00-17:45	S9 (Tara)	S11 (Montenegro)
		17:45-18:00	Coffee Break	Coffee Break	17:45-18:00	Coffee Break (Tara)	Coffee Break (Montenegro)
		18:00-19:15	S 4	S 6	18:00-19:15	S10 (Tara)	S12 (Montenegro)
		19:15-19:30	Break	Break			
		19:30	Welcome Party				

ICOM 2015

The 4th International Conference on the Physics of Optical Materials and Devices, 31st August-4th September 2015, Budva, Montenegro

Wednesday (02.09)	Tara	Thursday (03.09)	Tara	Friday (04.09)	Tara
08:00-08:55	Registration				
09:00-10:45	S13	09:00-10:40	S 15	09:00-10:45	S 19
10:45-11:30	Poster Session III	10:40-11:30	Poster Session IV	10:45-11:00	Coffee Break
11:30-13:30	S14	11:30-13:15	S 16	11:00-13:15	S 20
		13:15-16:00	Break	13:15-15:00	Break
				15:00-16:30	S 21
		16:00-17:45	S 17	16:30-16:45	Closing ceremony
		17:45-18:00	Coffee Break		
18:30-23:00	Boat trip Conference dinner and Party	18:00-19:15	S 18		

Conference Program

Sunday, 30 August 2015	
Hotel Tara	
16.00-20.00	Registration
Monday, 31 August 2015	
Hotel Tara	
8.00-8.55	Registration
Opening Ceremony: 9.00-9.10	
Session 1: Advanced Fluorescent Materials <i>Session Chairs: W. Streck, A. Meijerink</i>	
9.10-9.40	Invited lecture: A. Srivastava <i>The Luminescence of Bi³⁺ in Solids</i>
9.40-10.10	Invited lecture: J. Capobianco <i>Near infrared light mediated drug release, photodynamic therapy using upconversion nanoparticles</i>
10.10-10.40	Invited lecture: G. Boulon Assignment of Nd ³⁺ /Yb ³⁺ energy levels in the C ₂ and C _{3i} centers of Lu ₂ O ₃ sesquioxide ceramics/crystal
10.40-11.00	Coffee Break
Session 2: Luminescence Mechanisms <i>Session Chairs: R. Moncorgé, L. Seijo</i>	
11.00-11.30	Invited lecture: A. Meijerink Energy transfer in rare-earth doped systems
11.30-11.45	P. Dorenbos <i>Defect states of 3d, 4d, and 5d electrons of transition metals and lanthanides in inorganic compounds</i>
11.45-12.00	E. Zych <i>LuPO₄:Eu sintered ceramics - an old phosphor with new luminescent functionalities</i>
12.00-12.15	G. Alombert-Goget <i>Large Ti-doped sapphire single crystals grown by the kyropoulos technique for petawatt power laser application</i>
12.15-12.45	Break
Poster Session I: 12.45-13.30	
13.30-16.00	Lunch Break
16.00-17.45	Parallel Sessions
Hotel Tara	Hotel Montenegro
Session 3: Upconversion and Energy Transfers <i>Session Chairs: O. Wolfbeis, J. Capobianco</i>	Session 5: Nanomaterials and Nanostructures <i>Session Chairs: C. Wickleder, J-L. Adam</i>
M. Back <i>Bismuth oxide as host for rare-earth dopants in UCNPs</i>	L. Guerbous <i>Intra- and Inter-configurational luminescence spectroscopy of Pr³⁺ - doped Yttrium orthophosphates YPO₄</i>

		<i>nanophosphors synthesized by sol gel method</i>	
D. Wawrzyńczyka <i>Encapsulation of up-converting NaYF₄ nanocrystals in multifunctional polymeric nanocontainers</i>		A. N. Beltiukov <i>The new materials based on doped by Cu ZnS deposited into porous anodic alumina for electroluminescent light emitting devices</i>	
V. Gorieva <i>LiY_{0.3}Lu_{0.7}F₄: Ce³⁺, Pr³⁺ mixed crystal as a perspective up-conversionally pumped UV active medium</i>		M. Pellerin <i>Persistent nanophosphors for bioimaging</i>	
J. Llanos <i>Up-conversion luminescence, raman and thermal stability of BaTiO₃:Er³⁺</i>		I. A. Weinstein <i>Spectral features of high-field electroluminescence in aln filamentary nanocrystals</i>	
A. Lyapin <i>Upconversion luminescence in Ho³⁺ doped fluoride materials under excitation of ³I₇ and ⁵I₅ levels</i>		D. J. Jovanović <i>Syntheses and morphologies of GdVO₄ powders: from bulk to nano</i>	
K.S. Moskaleva <i>Up-conversion luminescence in germanate glasses</i>		O. Dymshits <i>Synthesis and optical properties of transparent glass-ceramics with (Eu, Yb, Y)NbO₄ nanocrystals</i>	
		D.H. Daurenbekov <i>Research the nature of the luminescence of copper-doped quantum dots CDSE</i>	
17.45-18.00	Coffee Break		
18.00-19.15	Parallel Sessions		
Hotel Tara		Hotel Montenegro	
Session 4: Materials Characterization <i>Session Chairs: G. Boulon, A. Srivastava</i>		Session 6: Laser Materials and Laser Processing <i>Session Chairs: M. Brik, T. Thundat</i>	
S. Mahlik <i>Optical properties of K₂SiF₆:Mn⁴⁺ at ambient and high hydrostatic pressures</i>		M. Fontana <i>Calculation of the dispersion of electro-optic and nonlinear coefficients</i>	
R. Miedziński <i>Nonlinear optical Properties of PbOGeO₂ Glass codoped by Yb³⁺/Tm³⁺ and incorporated Si nanoparticles</i>		Y. Zorenko <i>Composition engineering of the single crystalline film scintillators based on the multicomponent garnet compounds</i>	
S. A. Klimin <i>Far-infrared spectroscopy of multiferroic RFe₃(BO₃)₄ (R=Gd, Tb); phase transitions and coupling between lattice phonons and crystal-field excitations</i>		H. Yamaguchi <i>Co-doping effects on luminescence and scintillation properties of Ce doped (Lu, Gd)₃(Ga, Al)₅O₁₂ scintillator</i>	
M. Mićica <i>Characterization of magneto-optic hexaferrites by terahertz time domain spectroscopy</i>		D. Ganina <i>The effects of diffraction and spherical aberration at the femtosecond laser fabrication extended microstructure by</i>	

	<i>different focusing systems</i>
L. Lenhardt <i>Application of multi-way analysis for decomposition of luminescence spectra of phosphor mixtures</i>	K. Gorbachenya <i>Efficient in-and pumped Er:KY(WO₄)₂ laser</i>
19.15-19.30	Break
Welcome Party at Hotel Tara pool: 19.30-20.30	

Tuesday, 1 September 2015	
Hotel Tara	
8.00-8.55	Registration
Session 7: Characterization of Photonic Materials <i>Session Chairs: O. Malta, L.A. D. Carlos</i>	
9.00-9.40	Plenary lecture: R. Wai-Yeung Wong <i>Organometallic molecular materials for NLO, OLEDs and organic solar cells</i>
9.40-10.10	Invited lecture: M. Brik <i>Spectroscopy of transition metal ions in solids - theoretical modeling</i>
10.10-10.40	Invited lecture: P. Smet <i>Cathodoluminescence in electron microscopy: from phosphor evaluation single particle analysis</i>
Poster Session II and Coffee Break: 10.40-11.30	
Session 8: Low Dimensional Materials and Functionalities <i>Session Chairs: S. Tanabe, E. Cavalli</i>	
11.30-12.00	Invited lecture: S.H. Pulcinelli <i>Nucleation, aggregation and growth of quantum dots prepared by sol-gel chemistry</i>
12.00-12.30	Invited lecture: A.V. Naumov <i>Fluorescence spectromicroscopy of myriad single dye molecules in solid matrices: tool for hyperspectral material nanodiagnostics</i>
12.30-12.45	M. Ramires <i>Silver Complex Nanostructures For SHG Enhancement In RbTiOPO₄</i>
12.45-13.00	S. Jobic <i>Stabilization of p-type N-Doped Zn-deficient ZnO Nanoparticles</i>
Conference Photo: 13.00-13.15	
13.15-16.00	Lunch Break
16.00-17.45	Parallel Sessions
Hotel Tara	Hotel Montenegro
Session 9: Luminescence Properties <i>Session Chairs: K. Ueda, P. Smet</i>	Session 11: Glass and Hybrids Materials <i>Session Chairs: S. Jobic, B. Capoen</i>
W. Stręk <i>Laser induced white emission from graphene ceramics</i>	D. Möncke <i>Photo-ionization of 3d ions in glasses</i>

D. Avram <i>Luminescence properties of CeO₂ doped with Ln ions under optical and X-ray excitation modes</i>	M. Rada <i>Local, electronic and global structure of molybdenum-lead-germanate glasses and glass ceramics</i>
J.F. Greisch <i>Luminescence properties of gas-phase mass-selected lanthanoid complexes</i>	E. Malchukova <i>Redox state of RE ions embedded in aluminoborosilicate glasses</i>
K. Lemański <i>Spectroscopic properties of YZnPO polycrystals doped with Nd³⁺ ions</i>	M. Piasecki <i>The de-clustering influence of aluminum ions on the green emission efficiency of Tb³⁺ ions in barium borophosphate glasses</i>
D. Valiev <i>Spectral-kinetic and color characteristics of the luminescence of ZnWO₄:Eu³⁺ crystals</i>	B.V. Padlyak <i>Spectroscopy of the Er-doped borate glasses</i>
D. Kulesza <i>High-Temperature sintering of SrS:Ce towards the new Red-IR Ce emission</i>	T. Felbeck <i>Fluorescent clay hybrids in transparent aqueous media: interaction with biointerfaces</i>
M. Grinberg <i>Location of the Ce³⁺ ground state in the bandgap and luminescence efficiency in Y₃Al₂Ga₃O₁₂:Ce³⁺ and Y₃Ga₅O₁₂:Ce³⁺</i>	V. Marinova <i>All optically controlled organic-inorganic hybrid device</i>
17.45-18.00	Coffee break
18.00-19.15	Parallel sessions
Hotel Tara	Hotel Montenegro
Session 10: Quantum Dots and Nanomaterials <i>Session Chairs: S.H. Pulcinelli, M.D. Dramicanin</i>	Session 12: Sensors <i>Session Chairs: R.W.Y. Wong, A.V. Naumov</i>
J. Nedeljković <i>Surface-modified TiO₂ nanoparticles on polymer support: synthesis, characterization and photocatalytic performance</i>	A. Braud <i>Photon Conversion from 4.4μm Dy³⁺ doped fluorescent fibers to 800nm in Er³⁺ doped fibers for all-optical gas sensing</i>
B. Cichy <i>Excited states relaxation in highly confined AgInS₂ and AgInS₂/ZnS quantum dots evaluated by single particle spectroscopy</i>	V. Fauzia <i>Localized surface plasmon resonance based biosensor using alcohol oxidase for formaldehyde detection</i>
B. del Rosal <i>Multi-spectral fluorescent nanoprobe: Triple RE³⁺-doped NIR-emitting NaGdF₄ nanoparticles (793nm-NIR) also playing as In Vitro (980nm-VIS) imaging and thermometry probes</i>	B. Capoen <i>Innovative copper-doped glasses and fibers as sensitive materials for ionising beam dosimetry</i>
S. Gies <i>Type-II Excitons in (Ga,In)As/Ga(N,As)-Quantum Wells</i>	S. Gurlui <i>Advanced optical remote sensors for airborne and spaceborne platforms</i>

Wednesday, 2 September 2015	
Hotel Tara	
8.00-8.55	Registration
Session 13: Structure/Optical Properties Relationships <i>Session Chairs: K. Dholakia, M. Popova</i>	
9.00-9.40	Plenary lecture: O. Wolfbeis <i>Nanomaterial-based fluorescent biosensing and imaging</i>
9.40-10.10	Invited lecture: M. Guzik <i>Nd³⁺, Eu³⁺ and Yb³⁺ ions as structural probes in the scheelite-type cadmium molybdate with vacancies</i>
10.10-10.40	Invited lecture: L. Seijo <i>Intervalence charge transfer luminescence: ab initio calculations and configuration coordinate diagrams</i>
10.40-10:55	L. Amidani <i>Evolution of Eu and Mn oxidation state in doped BaMgAl₁₀O₁₇ during X-ray irradiation</i>
Poster Session III and Coffee Break: 10.55-11.30	
Session 14: Material and Spectroscopy <i>Session Chairs: P. Dorenbos, E. Zych</i>	
11.30-12.00	Invited lecture: R. Moncorgé <i>Rare-earth doped fluoride laser crystals: recently explored "exotic" properties</i>
12.00-12.30	Invited lecture: E. Cavalli <i>Optical spectroscopy of fluoride and oxide host lattices activated with Dy³⁺</i>
12.30-12.45	Invited lecture: K. Ueda <i>Ln³⁺ 4f energy levels and luminescence in yttrium aluminate perovskite</i>
12.45-13.00	M. Ferrari <i>Glass-Based 1-D dielectric microcavities</i>
Boat Cruise along Boka Kotorska Bay with Conference Dinner and Party: 17.45-22.30	

Thursday, 3 September 2015	
Hotel Tara	
Session 15: Advanced Materials and Nanomaterials <i>Session Chairs: A. Suchoki, L. Bausa</i>	
9.00-9.40	Plenary lecture: Kishan Dholakia <i>Advanced optical manipulation exploiting materials science</i>
9.40-10.10	Invited lecture: T. Thundat <i>Nanomechanics of photothermal and photoacoustic spectroscopy</i>
10.10-10.40	Invited lecture: L. D. Carlos <i>Luminescent nanothermometry. Nanothermometers and nanoheaters get closer</i>
Poster Session IV and Coffee Break: 10.40-11.30	
Session 16: Advanced Characterization of Materials <i>Session Chairs: P. Deren, M. Ferrari</i>	

11.30-12.00	Invited lecture: J.L. Adam <i>Optical chalcogenide glasses, fibers, and devices</i>
12.00-12.30	Invited lecture: M. Popova <i>Fascinating optical properties of the copper metaborate</i>
12.30-13.00	Invited lecture: D. Hreniak <i>Spectroscopic properties of Sr₂CeO₄ nanocrystals Co-doped with rare-earth ions</i>
13.00-13.15	O. Malta <i>The Chemical Bond Overlap Polarizability and covalency. Concepts and applications: from diatomic molecules to solids</i>
13.15-16.00	Lunch Break
Session 17: Materials for Imaging, Bioimaging and Related Applications <i>Session Chairs: A. Braud, B. Viana</i>	
16.00-16.30	Invited lecture: S. Tanabe <i>Novel red persistent phosphors developed by band gap engineering</i>
16.30-16.45	K.L. Wong <i>Molecular imaging and killing of latently EBV-infected tumor cells by the development of EBNA1-specific lanthanide bioprobes</i>
16.45-17.00	B. del Rosal <i>Rare earth-doped nanoparticles as new photothermal agents: fundamentals and in vivo applications</i>
17.00-17.15	J. Szeremeta <i>Co-encapsulation of CdSe-ZnS quantum dots and phthalocyanine in nanocarriers for photodynamic therapy</i>
17.15-17.30	M.O. Rodrigues <i>Carbon dots (C-dots) from cow manure with impressive subcellular selectivity tuned by simple chemical modification</i>
17.45-18.00	Coffee Break
18.00-19.15	Session 18: Phosphors and LEDs <i>Session Chairs: M. Grinberg, M. Lalic</i>
J. Wang <i>Tunable luminescent properties and concentration-dependent, site-preferable distribution of Eu²⁺ ions in silicate glass for white LEDs applications</i>	
J. Cybińska <i>Controlling the morphology of YPO₄:Eu³⁺ by chemical processing parameters</i>	
J. Jurkevičius <i>Efficiency droop in AlGaIn epitaxial layers and multiple quantum wells</i>	
M. Ishii <i>Brightening GaN:Eu red LED by back-and-force motion of injection charges and its applied to site-selective analyses of emission centers</i>	

Friday, 4 September 2015	
Hotel Tara	
9.00-10.45	Session 19: Modeling the Materials Optical Properties <i>Session Chairs: M. Guzik, S.A. Klimin</i>
V. A. Chernyshev <i>Structure and lattice dynamics of crystals with rare earth sublattice: ab initio calculations</i>	
Y. Fukuda <i>Correlation between coordination environment of Ce³⁺ and luminescence properties in yellow-emitting Sr₂Si₇Al₃ON₁₃:Ce³⁺ phosphor</i>	
C. G. Ma <i>Modeling the structural, vibrational, electronic and optical properties of lanthanide-doped materials</i>	
A. Suchocki <i>Linewidths of the 4f-4f electronic transitions and electronic structure of Ce³⁺ dopant in yttrium and lutetium orthoaluminate crystals</i>	
K.W. Meert <i>Investigation of the quenching mechanisms of Tb³⁺ doped scheelites</i>	
M. A. Couto dos Santos <i>Modelling the influence of silver nanoparticles on the f-f luminescence of the euedta complex in the polyvinylpyrrolidone polymer</i>	
J. Legendziewicz <i>Photophysical studies and application of computer modelling and hartree-fock method for interpretation of spectroscopic properties and structural changes of axially substituted Yb(iii) monophthalocyanines in different media</i>	
10.45-11.00	Coffee Break
11.00-13.15	Session 20: Luminescence Characterization and Modelling <i>Session Chairs: D. Hreniak, K-L. Wong</i>
J.J. Joos <i>Empirical energy level modeling of lanthanide defects in CaGa₂S₄ and SrGa₂S₄: uncertainty analysis and unexpected behavior</i>	
M. V. Lalic <i>The origin of ferroelectric distortion in hexagonal multiferroics RMnO₃ (R = Y, Lu)</i>	
K. N. Boldyrev <i>High-Resolution optical absorption spectroscopy of Si-vacancy color center in monoisotopic diamond ¹³C</i>	
F.T. Rabouw <i>Multi-photon quantum cutting in Gd₂O₂S:Tm³⁺</i>	
S. A. M. Lima <i>Influence of different atmospheres on photophysical and structural properties of zinc oxide</i>	
T. Senden <i>The d-f luminescence of Eu²⁺ and Ce³⁺ Ions in Cs₂(Ca,Sr)P₂O₇</i>	
D. N. Sovyk <i>Submicron diamond pillars with silicon-vacancy color centers as localized near infra-red photoemitters</i>	
K. K. Pukhov <i>Decay rate of the luminescence center located near metallic nanoparticle</i>	
13.15-15.00	Lunch Break

15.00-16.30	Session 21: Materials for Light Detection <i>Session Chairs: J. Sokolnicki, R. Mahiou</i>
A. Yoshikawa	<i>Crystal growth, optical and scintillation properties of bulk Eu-doped SrI₂ single crystals</i>
A. Zanutta	<i>Diffractive optics for astronomy: volume phase holographic gratings based on photopolymers</i>
S. A. Gopalan	<i>Efficient polymer solar cells fabricated by tuning coupled electrical-optical properties at the interface</i>
M. Boujnah	<i>Theoretical calculation of optical and electrical properties of v doped ZnO using in solar cells applications</i>
Closing Ceremony: 16.30-16.45	

ICOM 2015

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Monday, 31 August 2015

Poster session I

01

ID 380

3D OPTICAL MEASUREMENT OF COMPOSITE STRAIN AND DISPLACEMENT IN RESTORED TEETH

D. Manojlovic, M. Milosevic, N. Mitrovic, V. Miletic

02

ID 123

A NANOPOROUS SILICON - ALUMINUM LIGHT EMITTING SCHOTTKY STRUCTURE INCORPORATED INTO SILICON CHIP

A. Smirnov, A. Stepanov, Y. Mukha

03

ID 264

A RECOMBINATION LUMINESCENCE IN THE FIELD OF TRANSITION TEMPERATURE OF KDP CRYSTAL

T. Koketai, A. Tussupbekova, E. Mussenova, A. Ibrayeva, N. Saidrakhimov

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