

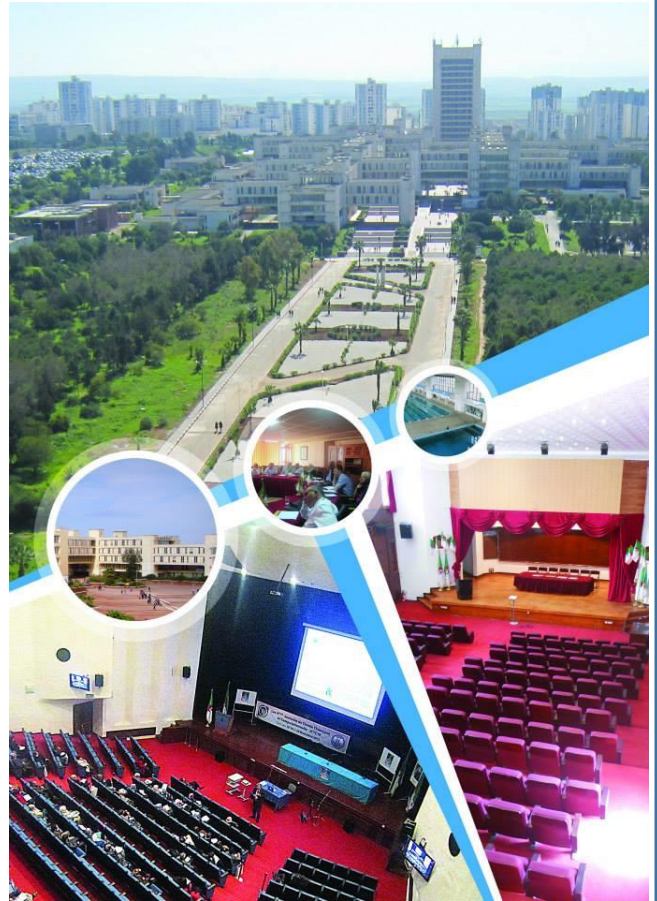
University of Science and Technology of Oran - Mohamed-Boudiaf (USTO)
Optical and Photonics Algerian Society (OPALS)

Program

5 – 7 May 2018

USTO Oran

Optics and Photonics Algeria 2018
الضوء و الفوتونيات الجزائر 2018
Optique et Photonique Algérie 2018



International
Day of Light

16 May

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International Scientific committee



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General Director of Scientific Research and Technological Development

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- **Optical Materials, Fabrication and Characterization**
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 - Mohamed Kechouane, USTHB Algiers (Algeria)
 - Eric Millon, Orléans University (France)
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 - Val Zwiller, Delft University of Technology, Delft (The Netherlands)
 - Witold Ryba-Romanowski, Polish Academy of Science (Poland)
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 - John Dudley, Femto ST, University Besançon (France)
 - Majed Chergui, EPFL (Switzerland)
 - Patrick Georges, Institut Optique GS (France)
- **Optoelectronic devices, light sources and laser processing**
 - Abderrahim Ramdane, LPN Marcoussis (France)
 - Osman Benchikh, UNESCO
 - Abderrahmane Tadjeddine, CNRS (France)
 - Mohamed Abdel Harith, NILES (Egypt)
 - El Hachemi Amara, CDTA (Algeria)
 - Nourredine Guabouze, CRTSE (Algeria)
 - Fethi Khalfaoui, Ouargla University (Algeria)
- **Nanophotonics and integrated optics**
 - Tahar Touam, University Annaba (Algeria)
 - Frédérique de Fornel, University Dijon (France)
 - Nurdogan Can, Jazan University (Saudi Arabia)
 - Omar Lamrous, UMMTO Tizi Ouzou (Algeria)
 - Omar Ziane, USTHB (Algeria)
 - Fredrik Laurell, KTH Stockholm (Sweden)
 - Malik Maaza, Nanosciences & Nanotechnology
 - Patrice Baldeck, University Grenoble (France)
- **Optical telecommunications and fibers**
 - Lotfy Simohamed, EMP Algiers (Algeria)
 - Jean Claude Simon, Foton Rennes (France)
 - Mourad Zghal, ENIT Tunis (Tunisia)
 - Mohamed Bouazaoui, IRCICA Lille 1 (France)
 - Badr Eddine Benkalfat, Telecom Sud Paris (France)
- **Biophotonics, organic photonics**
 - Brahim Lounis, University Bordeaux (France)
 - Alexis Fischer, University Paris 13 (France)
 - Noureddine Melikechi, Delaware (USA)
 - Georges Zisis, Laplace Toulouse (France)
- **Sensors and instruments**
 - Youcef Ouerdane, University St Etienne (France)
 - Abderrahmane Tadjeddine, CNRS (France)
 - Paolo De Natale, Istituto Nazionale di Ottica-CNR (Italy)
 - Ahmed Hafid Belbachir, USTO Oran (Algeria)
- **Quantum optics and emerging fields**
 - Claude Fabre, LKB (France)
 - Mohamed Bourenane, Royal Swedish Academy of Sciences

Saturday 5 May 2018

10h00 – 14h00

Arrivals and Registration

14h00 – 14h30

Opening Ceremony
Chairman: Prof. Nassira BENHARRATS, USTO President

14H30 – 15h30

Session 1: IDL 2018 (Chairman: Omar Ziane)

Innovation technologique en sciences et génie des matériaux

Hafid Aourag

Directeur Général de la Recherche Scientifique et du Développement Technologique (DG-RSDT)

IDL (International Day of Light) 2018

15h30 – 16h00

Coffee break

Session 1: Optical Materials (Chairman : Abdelghani Tebboune)

16h00 – 16h40
Invited

Design des Matériaux : Du premier principe aux applications optoélectroniques

Mohamed Ferhat, Département de Génie Physique

Université des Sciences et de la technologie d'Oran Mohamed Boudiaf. USTO. Oran

16h40 – 17h00

Thermal, Optical and Spectroscopic properties of Eu³⁺ doped Oxy, Chloro or Fluorophosphates glasses

S. Amrouch^{1,2,*}, M. Chalal^{2,3}, S. Zaiba², A. Kermaoui³, A. Oulebsir^{2,3}, H. Zanane³, N. Abdedou³, T. Djouama³, O. Ziane³ and O. Lamrous¹

1 Laboratoire de Physique et Chimie Quantique, Université Mouloud MAMMERI Tizi-Ouzou, Algérie

2 Département de Physique, Faculté des Sciences, Université M'Hamed Bougara de Boumerdès(UMBB), Algérie

3 Laboratoire d'Electronique Quantique, Faculté de Physique, USTHB-Alger, Algérie

17h00 – 17h20

Optical and structural properties of PECVD amorphous silicon-carbon alloys thin films

S. Nemmour¹, F. Kail¹, L. Chahed¹, and P. Roca i Cabarrocas²

1 LPCMME, Département de Physique, Université Oran1, 3100 Oran, Algérie.

2 LPICM, CNRS, Ecole Polytechnique, Université Paris-Saclay, 91128 Palaiseau, France

17h20 – 17h40

Spectroscopic, thermal and elastic properties of Ho³⁺ doped fluoro-phosphate glasses

O. Bentouila¹, F. Rehouma², K.E. Aiadi¹ and M. Poulain³

1 Équipe Optoélectronique, Laboratoire LENREZA, Université Kasdi Merbah-Ouargla, 30000 Ouargla, Algérie

2 Université d'El-Oued, B.P 789 El-Oued R.P, 39000 El-Oued Algérie

3 Matériaux Photoniques, UMR Sciences Chimiques, Université de Rennes 1, F-35042 Rennes, France

17h40 – 18h00

Annealing temperature effect on structural and Luminescence spectroscopy of Y₂SiO₅:Ce³⁺ nanomaterial synthesized by sol-gel method

M. S. E. Hamroun*, L. Guerbous, Y. Larbah

Nuclear Research Centre of Algiers (CRNA), 02 Boulevard Frantz Fanon, P.O. Box. 399, 16000 Algiers, Algeria

Session 1B (Chairman: Youcef Ouerdane)

18h00 – 18h40
Invited

Efficiency evaluation of a low pressure Ne-Xe Dielectric Barrier Discharge

B. Caillier¹, I. Medjahed², S. A. Beldjilali², A. Belasri² and P. Guillot¹

1. DPHE, Université de Toulouse, Institut National Universitaire Champollion, Place de Verdun 81012 Albi cedex 9, France

2. Laboratoire de Physique des Plasmas, des Matériaux Conducteurs et leurs Applications LPPMCA, USTO Mohamed Boudiaf USTO-Oran, Algeria

18h40 – 19h00

Epsilon Approximation method for calculation of Phase matching conditions for non linear interaction in uniaxial and biaxial crystals

A. Cheriguene, H. Bouridah, M. R. Beghoul

Département d'Electronique, Université de Jijel BP98 Ouled Aissa Jijel 18000, Alegria,

Laboratoire d'Etude des Matériaux, Université de Jijel BP98 Ouled Aissa Jijel 18000, Alegria

19h00 – 19h20

Frequency modulation index determination using an acousto-optic deflector

A. Guessoum¹ * and K. Ferria²

1 Physics and mechanics of metallic materials laboratory, Institute of optics and precision mechanics, Ferhat Abbas University Setif, Algeria

2 Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University Setif 1, 19000,

19h20 – 19h40

Broadband parametric generation based on two-dimensional quadratic nonlinear photonic crystal

H. Chikh-Touami^{1,*}, L-H. Beng³ and A. Boudrioua²

1 Ecole Militaire Polytechnique, UER Electronique, LSEO, BP17 Bordj Elbahri 16111, Algiers, Algeria

2 Université Paris 13, Laboratoire de Physique des Lasers, CNRS(UMR7538), F-93430 Villetaneuse, France

3 Graduate Institute of Photonics and Optoelectronics, National Taiwan University, Taipei 106, Taiwan

19h20 – 20h00

Panel discussion
SAOP (OPALS) AG

Session 2: Nanophotonics and plasmonics (Chairman: Omar Lamrous)

8h30 – 9h10
Invited

Long-range plasmonic interaction: application to surface enhanced Raman scattering
Nordin FELIDJ, University Paris 7

9h10 – 9h30

Fano resonance in photonic crystal: temperature sensor application
M. Braik¹, A. Mezeghrane¹, M. Hamidi¹, A. Belkhir¹ and F. I. Baida²
1 Laboratoire de Physique et Chimie Quantique, Faculté des Sciences, Université Mouloud Mammeri de Tizi-Ouzou, BP 17 RP, 15000 Tizi-Ouzou, 2 Département d'optique P. M. Duffieux, Institut FEMTO-ST, UMR 6174 CNRS Université Bourgogne Franche-Comté, F-25030 Besançon France

9h30 – 9h50

Phosphorescence spectra of gold(III) complexes including temperature effects: An insight from DFT
Hayat Ayache,^{1,2*} Camille Latouche,³ Aziz Elkechai,¹ Abdou Boucekine,⁴ Dalila Hammoutène ²
1 Laboratoire de Physique et Chimie Quantique, Faculté des Sciences, Université Mouloud Mammeri, 15000 Tizi-Ouzou, Algeria 2 Laboratoire de Thermodynamique et Modélisation Moléculaire, Faculté de Chimie, USTHB, 16111 Bab Ezzour Alger, Algeria 3 Institut des Matériaux Jean Rouxel (IMN), Université de Nantes, CNRS, 2 rue de la Houssinière, BP 32229, 44322 Nantes cedex 3, France 4 Institut des Sciences Chimiques de Rennes, UMR 6226 CNRS, Université de Rennes 1, Campus de Beaulieu, 35042 Rennes Cedex, France

9h50 – 10h10

Doping rate effect on blue shift in the photoluminescence of ZnO nanostructures
Nouri Abdelhak
Laboratoire des systèmes photonique et d'optique non linéaire, Université Sétif 1, 19000 Algeria

10h10 – 10h30

Easy Method for Nano-etching of silicon surface by silver nanoparticles
M. Z. Belmehdi* , F. Bechiri, M. Zerdali, S. Hamzaoui
Laboratory of Electron Microscopy and Materials Science (LMESM) BP 1505 ElMnaouer 31100, USTO, ORAN, Algeria

10h30 – 11h00

Coffee break

Session 3: Fibers and optical telecommunications (Chairman: Amara ElHachemi)

11h00 – 11h40
Invited

Optical fiber sensors and applications : an overview
Youcef OUERDANE, Université Saint Etienne (France)

11h40 – 12h00

Optical characterization of a nanofiber immersed in a Raman liquid
M. Bouhadida, A. Azzoune, P. Delaye, N. Dubreuil, G. Pauliat, S. Lebrun
Laboratoire Charles Fabry, Institut d'Optique, CNRS, Université Paris-Saclay, 91127 Palaiseau cedex, France

12h00 – 12h20

Submicrometer measurements of tapered optical fibers with low aperture optical microscopes
A. Azzoune, P. Delaye, S. Lebrun, M. Bouhadida, G. Pauliat
Laboratoire Charles Fabry, Institut d'Optique, CNRS, Université Paris-Saclay, 91127 Palaiseau cedex, France

12h20 – 12h40

Novel proposed code for SAC-OCDMA system
W. Sahraoui, H. Aoudia and S. Berrah
Université de Bejaia, Faculté de Technologie, Laboratoire de Maitrise des Energies renouvelables (LMER)

12h40 – 13h00

Shaping of a Laguerre-Gaussian beam by a stop
S. Chabou, A. Bencheikh
1 Laboratoire d'Optique Appliquée, Institut d'Optique et Mécanique de Précision, Université de Sétif 1, Sétif 19000, Algérie 2 Département d'électromécanique, Faculté des sciences et de la technologie, Université BBA, AlAnasser, Bordj Bou Arreridj

13h00 – 14h00

Lunch

14h00 – 15h30

**POSTER Session I
Exhibition**

15h30 – 16h00

Coffee break

Session 4: Instrumentations and optoelectronic components (Chairman: MohamedBelbachir)

16h00 – 16h20

Diffraction micro-lens based on pairs of transparent objects
A. Tellal¹, P. Baldeck², O. Ziane¹
1 Laboratory of quantum electronics, Physics Faculty, University of Sciences and Technology – USTHB Algiers 2 Laboratory of chemistry, École Normale Supérieure of Lyon

16h20 – 16h40

Wave front aberrometry: Application in vision science Reviewing and our approaches
N. Ould Amer¹, A. Derdour², F. Kail¹, S. Chiali¹ and L. Chahed¹
1 LPCMME, Facultés des sciences exactes et appliquées, Université d'Oran 1. 2 Etablissement hôpitalo-universitaire Cogneau, Faculté de médecine, Université d'Oran 1

16h40 – 17h00

Active Imaging with a Backscattered Laser Beam
A. Kedadra, M. Traïche, N. Hendaoui
Centre de Développement des Technologies Avancées, BP 17, Cité 20 Août 56, Baba Hassen, Alger

17h00 – 17h20

Detection and localization of micros defects on transparent ceramic surface by optical voice
Meziane Rahima, Meguellati Said
Applied optics laboratory; Optics and precision mechanics institute; University ofFerhat Abbas Sétif 1, 19000

Session 4B (Chairman: Amin Hamou)

17h30 – 17h50

High Performance n-type and p-type Two-dimensional Materials for Optoelectronic Devices and Photodetection Applications
A. Abderrahmane^{1,2}, M. M. Achouri³, C. Zegadi⁴, A. Tab^{1,2}, P. J. Ko⁵, S. Hamzaoui²
1 Division Microélectronique et Nanotechnologie, CDTA, Cité 20 août 1956 Baba Hassen, Alger, Algérie. 2 Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, El M'naouar BP 1505 Bir El Djir 31000 Oran, Algérie. 3 Laboratoire d'Études Physiques des Matériaux (L.E.P.M), Département de Génie physique, Faculté de physique, USTO Mohamed Boudiaf Oran 4 Ecole Nationale Polytechnique d'Oran – Maurice Audin, ENPO-MA (ex-ENSET), Département Physique-Chimie, Oran 31000, Algérie. 5 Department of Electrical Engineering, Chosun University, 375, Seosuk-dong, Dong-gu, Gwangju 501-759, Republic of Korea

17h50 – 18h10

Fabrication and characterization of organicSchottky diode based on diketopyrrolopyrrole from I-V and C-V measurements
M. Mansour, N. Saidi-Amroun, and M. Saidi
Materials Physics Laboratory, Faculty of Physics, University of Sciences and Technology Houari Boumediene. Algiers

18h10 – 18h30

Fabrication of dye-sensitized TiO₂ solar cells based on coumarin and anthocyanin dyes
N. Hourri , M. Adnane, S. Hamzaoui
Laboratory of Electronic Microscopy and Materials Science, USTO Mohamed BOUDIAF. BP 1505 EL M'NAOUAR Oran, 31000, ALGERIA

18h30 – 18h50

Optoelectronic properties of CuO/ZnO hetero-junction for solar cells
M. Lamri Zeggar¹, M.S.Aida², L.Chabane³ and N.Zebbar³
1 LCM et Interface, Faculty of Sciences, University of Constantine 1 2 Department of physics, KAU university Jeddah KSA 3 Department of Materials&Compounds, Faculty of Physics, USTHB, Algeria

Monday 7 May 2018

8h30 – 10h00

POSTER session II
Exhibition

10h00 – 10h30

Coffee break

Session 5: Laser and laser processing (Chairman: Omar Ziane)

10h30 – 11h10

Laser Additive Manufacturing Modeling

Invited

El Hachemi AMARA, CDTA Algiers

11h10 – 11h30

Calibration-free Laser induced breakdown spectroscopy analysis for silicate used in the manufacture of photovoltaic solar cells

F. Z. Hamdani¹, S. A. Beldjilali^{1*}, J. Hermann², A. Belasri¹, and T. Baba-Hamed¹
 1 LPPMCA, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, USTO-MB, BP 1505 El M'naouer, 31000 Oran
 2 LP3, CNRS – Aix-Marseille University, 163 Av. de Luminy, 13288 Marseille, France

11h30 – 11h40

Diagnostic of Electronegative Plasmas via a Laser Photo-Detachment Combined and a Negatively Biased Langmuir Probe

N. Oudini^{1*}, and A. Bendib²
 1 Laboratoire des plasmas de décharges, CDTA, Cité du 20 Aout BP 17 Baba Hassen, 16081 Algiers, Algeria.
 2 USTHB Alger

11h40 – 12h00

Fast accumulation effect in metal ablation by multipulse femtosecond laser

A. Abdelmalek^{1,*}, Z. Bedrane¹, E-H. Amara², R. Ramponi³, S. Eaton³
 1 Physics Department, Theoretical physics Laboratory, Tlemcen University, 13000 Tlemcen, Algeria
 2 Laser Material Processing Team, CDTA, PO. Box 17 Baba-Hassen, 16303 Algiers, Algeria
 3 IFN-CNR and Dipartimento di Fisica, Politecnico di Milano, 20133 Milano, Italy

12h00 – 12h20

Effects of structural parameters on the Light-Current characteristics of multiple-phase-shift DFB semiconductor laser with distributed coupling coefficient

M. M. Bouchene and R. Hamdi
 Laboratoire des Télécommunications, Faculté des Sciences et de la Technologie,
 Université 8 Mai 1945 Guelma, 24000-Bp.401, Algérie

12h20 – 13h00

Closing ceremony
Best Presentation Award, Best Poster Award

13h00 – 14h30

Lunch



Social Event



Poster Session I (Sunday 6th April)

The posters listed below are to be presented for this session only

PI.1	Fiber Linear and Nonlinearity Compensation of 40 ×28 Gbaud PDM-QPSK transmission N. Hadjadj, R. Hamdi, H. Djellab <i>Telecommunication laboratory, University 8 Mai 1945 Guelma, Algeria.</i>
PI.2	Numerical simulation of spectral characteristics of chirped fiber Bragg gratings, A.Bouzida, H.Triki, A. El Akrimi <i>Laboratoire de Physique de Rayonnement, Département de Physique, Université Badji Mokhtar-Annaba</i>
PI.3	Gyromagnetic photonic crystal fiber of YIG K. Saker ¹ , T. Bouchemat ¹ , M. Lahoubi ² , M. Bouchemat ¹ <i>1 Les frères Mentouri Constantine University, Department of Electronics, Laboratory L.M., Constantine 25017- ALGERIA</i> <i>2 University of Sciences, Badji-Mokhtar Annaba University, Department of Physics, Laboratory L.P.S, Annaba 23000-ALGERIA</i>
PI.4	High sensitivity SPR Polymer optical fiber sensor for water analysis N.A. MERABET, L. BAZI-Cherbi ¹ , I. Haddouche, M. Touzene <i>Laboratory of instrumentation "LINS", The Faculty of Electronics and Computer Science, USTHB, Bab Ezzouar, Algeria</i>
PI.5	Improvement of nanostructures for optical Telecommunications A. Aissat ^{1,2} , R. Bestam ¹ , L. Chenini ¹ , N. Nacer ¹ , J.P. Vilcot ² <i>1 Faculty of Technology University of Blida 1, Algeria</i> <i>2 Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN), UMR CNRS 8520. Université des Sciences et Technologies de Lille 1 Avenue Poincaré, 59652 Villeneuve d'Ascq, France</i>
PI.6	Performance of SAC-OCDMA system with two techniques Encoding MUX and FBG H. DJELLAB ¹ , N. DOGHMANE ² , A. BOUARFA ³ , N. HADJAJ ¹ <i>1 Laboratoire des Télécommunications (LT), 8 mai 1945 Guelma university, ALGERIA</i> <i>2 Laboratoire Automatique et Signaux (L.A.S.A), Annaba university, ALGERIA</i> <i>3 Laboratoire d'électronique de photonique et d'optique (LEPO), Sidi bel abbés university, ALGERIA</i>
PI.7	Performance comparative of RLS-TEQ and LMS-TEQ for Direct Detection Optical OFDM systems over 1200km SMF Asmaa Benieddi, S Elahmar <i>Department of telecommunication, Faculty of Electrical Engineering, University Djillali Liabes SBA, Algeria</i>
PI.8	Audio signal transmission within visible light based communication Saboundji Asmaa Hadjer, Meche Abdelkrim, D Mohammed and K Mokhtar <i>Laboratory Signals and Images (LSI) Faculty of Electrical Engineering, USTO-MB Oran, Algeria</i>
PI.9	Design and simulation of a broadband bandpass filter based on Complementary Split Ring Resonator Circular "CSRRs" Becharef Kada, Nouri Keltouma, Kandouci Habib, Bouazza Boubakar seddik, Damou Mehdi, Bouazza Tayeb Habib Chawki <i>LTC Laboratory, Department of Electronic, Faculty of Technology, University of Saida Dr. Moulay Tahar, Algeria</i>
PI.10	BER Performance in an Optical CDMA LAN with Incoherent Sources Mouweffeq BOUREGAA ¹ , Mohamed CHIKH-BLED ² <i>1 University of Mustapha Istambouli - Faculty of Technology, Pole Stambouli, Mascara-Algeria</i> <i>2 University of Abou Bakr Belkaid - Faculty of Technology, BP 230, Pole Chetouane, 13000 Tlemcen -Algeria</i>
PI.11	Behavior analysis and control of EDFA gain for wavelength multiplexing systems, Hakim AOUZIA, Walid SAHRAOUI, Smail BERRAH <i>Université de Bejaia, route targa ouzamour 06000, Bejaia, Algeria. Faculté de technologie, Département de génie électrique, Laboratoire de Maitrise des Energies Renouvelables (LMER)</i>
PI.12	Very Low cost Li-Fi/VLC Prototype for Vehicle-to-Vehicle communication Dahmani Mohamed, Gulele Benildo Augusto, Meche Abdelkarim, K Mokhtar <i>University of Science and Technology Mohamad Boudiaf-Oran (Algeria) Laboratory of Signals and Images</i>
PI.13	A Design of a Tunable Hybrid Solc Filter Adapted for 40 Gbps NRZ and RZ-DQPSK Modulated Signals with a 100 GHz channel Spacing HADJ SLIMANE ABDERRAHMANE ¹ , KARIM FETHALLAH ¹ <i>1 Laboratoire de Télécommunications, Faculté de Technologie, Université Aboubekr Belkaid Tlemcen</i>
PI.14	High bit rates optical links based on a hybrid detection Khalfallah BOUHAFS ^{1,2} , Fatima-Zohra DRISS-KHODJA ² , Fatiha SAADAOU ² , and Mohammed DRISS-KHODJA ² <i>1 Laboratory of Technology of Communications, University of Saïda, 20000 Saïda, Algeria</i> <i>2 Laboratory of Physico-Chemical Studies, University of Saïda, 20000 Saïda, Algeria</i>
PI.15	Optical surface polishing by bonded abrasive grain tools Khellaf I, Abchi A, Belkhir N <i>Institute of Optics and Precision Mechanics, Ferhat Abbas University, Setif, Algeria.</i>
PI.16	Diffraction order filtering between multiple object beams by holographic polarization. Helal Amel; Hassad Saoucene; Bouamama Larbi <i>Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University, Setif¹</i>
PI.17	Portable Fluorescent Microscope for Microrobotic Application and Point-Of-Care (POC) Diagnostics Abdelkader Abderrahmane ^{1,2} , Belkacem Hachemi ³ , Redha Benachenhou ⁴ , Amine Iles ⁴ , Saad Hamzaoui ² <i>1 Division Microélectronique et Nanotechnologie, Centre de Développement des Technologies Avancées (CDTA), Alger, Algérie.</i> <i>2 Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, El Mnouar BP 1505 Bir El Djir 31000, Algérie.</i> <i>3 Division Architecture des Systèmes et Multimédia, Centre de Développement des Technologies Avancées (CDTA), Alger, Algérie.</i> <i>4 Platform technologique, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, Bir El Djir 31000, Algérie.</i>

PI.18	Investigation of optical fiber sensor for water pollution monitoring Azil.K, Ferria.K , Bouzid.S <i>Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University, Setif1, Algeria</i>
PI.19	Effect of Stored and Treated Optical Glass on Adhesive Power Behavior Abchi Asma, Khellaf Ikrem, Belkhir Nabi <i>Applied Optics laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University Setif, Algeria.</i>
PI.20	Modeling and Analysis of the Temperature Dependency of Photonic Crystal Ring-shaped holes Cavity Dallel Benelarbi, Touraya Bouchemat and Mohamed Bouchemat <i>Département d'Electronique, Faculté des Sciences de la Technologie, Université des Frères Mentouri, Constantine, Alegria</i>
PI.21	Three-dimensional study of the specular surfaces by phase- shifting fringe projection and LabVIEW Boudoukha Rayenne, Bouaziz djamila, Guessoum Assia, Demagh Nacer-eddine <i>Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University], Sétif1, Algeria.</i>
PI.22	Study of the ageing of PDMS and its influence on the transmission through micro-collimator with a microlens in PDMS Nadjiba Boulaiche, Amina Nezzar, Assia Guessoum, Nacer-Eddine Demagh <i>Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University, Setif 1, 1900 Setif, Algeria</i>
PI.23	Spatial intensity distribution comparison between two different Cosine-Gaussian beams BOUMEDDINE Ouis Chouaib1, BENCHEIKH AbdelHalim1 <i>Applied optics laboratory, institute of optics and precision mechanics – university Ferhat Abbas Setif 1, 19000 Setif, Algeria</i>
PI.24	Two-Dimensional Photonic Crystal Pressure Sensor Mosbah CHAYMA , Benmerkhi AHLEM, Bouchemat MOHAMED, Bouchemat TOURAYA <i>Les frères Mentouri Constantine University, Department of Electronics ,Labouratory L.M.I ,Constantine 25017-ALGERIA</i>
PI.25	Elongation spot of sodium LGS F. DJAIDRI ^{1,2} , N. MOUSSAOUI ² <i>1Faculté des Sciences, UniversitéM'HamedBouguerra, Avenue de l'Indépendance 35000, Boumerdès, Algérie</i> <i>2Faculté de Physique, Université des Sciences et de la Technologie Houari Boumediene,BP32El- Alia, Bab- Ezzouar , Algérie</i>
PI.26	Aperture Synthesis of Holograms Obtained by Two Different Cameras Faten Bougheziou and Larbi Bouamama, <i>Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University of Setif, 19000 Setif, Algeria</i>
PI.27	Diffraction Of Hermit Gaussian Beam by A Stop Karima Mihoubi ¹ , Abdelhalim Bencheikh ^{1,2} , AissaManallah ¹ <i>1Laboratoire d'optique appliquée, institut d'optique et de mécanique de précision, université Sétif 2Département d'électromécanique, faculté des sciences et de la technologie, université BBA</i>
PI.28	Calculating the coupling efficiency use ABCD matrix for a parabolic microlens Zaied Bouhafs, Assia Guessoum, Nacer-Eddine Demagh. <i>Optics Laboratory, Institut of Optics and Precision Mechanics(Laboratoire d'Optique Appliquée, Institut d'Optique et Mécanique de Précision), Université Ferhat Abbas Sétif1,19000 Setif,Algérie.</i>
PI.29	The influence of lighting on the detection of straw defects by artificial vision S.Taleb*, S.Ziani*, S.Boulkroune*, K.Slimani* <i>*Research Center in Industrial Technologies CRTI P.O.Box 64, cheraga 16014 Algiers, Algeria</i>
PI.30	Numerical investigation on the mechanisms of striations formationin laser cutting of steel Karim KHELOUFI, El Hachemi AMARA <i>Laser Material Processing Team, Centre de Développement des Technologies Avancées, PO Box 17, Baba-Hassen, 16303, Algiers,</i>
PI.31	Characterization of Colored Titanium Surfaces, Produced by Nd:YAG Nanosecond Laser F. Brihmat-Hamadi, E.H. Amara <i>Division des milieux ionisés et Lasers, Centre de Développement des Technologies Avancées, Alger, Algérie</i>
PI.32	Pseudo-Complete Model Of Laser Cutting Process T. Tamsaout ^{1, 2} , E.H. Amara ¹ and A. Bouabdallah ² <i>1 Centre de Développement des Technologies Avancées Laser Material Processing Team Baba-Hassen, 16303 Algiers, Algeria</i> <i>2 Université des Sciences et Technologies Houari Boumedienne Laboratoire Thermodynamique et Systèmes Energétique, Faculté de Physique Bab-Ezzouar, Algiers, Algeria</i>
PI.33	Simulation of a Ring LASER with Erbium doped fiber DJEMAI Takidine, SENOUCI Dhiaelhak , CHADI Zakaria <i>Master's students, optics and applied photonics, Institute of Optics and Precision Mechanic. Setif</i>
PI.34	Simulation and optimization of passively Q-switched dual cavity laser Sidi Ahmed Zina, Djillalidjellout, HocineDjellout, ArrarOuiza, RabahMokdad <i>Laboratoire LPCQ, UMMTO, Tizi-Ouzou, Algérie.</i>
PI.35	The influence of laser parameters on the return flux of "sodium-LGS" F.Z Ouanoufi, N. Moussaoui <i>Laboratory of Quantum Electronics, Faculty of Physics, USTHB BP 32 El-Alia Bab-Ezzouar 16111 Algiers, Algeria</i>
PI.36	The impact of strontium doping on structural, optical and morphological properties of sprayed LaMnO3 layers A. Arrar ¹ , IM.Benhaliliba ¹ , A. Boukhachem ² , A. Ayeshamariam ³ <i>1 Material Technology Department, Physics Faculty, USTO-MB University, BP1505 Oran, Algeria.</i> <i>2 Unité de physique des dispositifs a semi-conducteurs, Faculté des sciences de Tunis, Tunis El Manar University, 2092 Tunis, Tunisia</i> <i>3 Department of Physics, Khadir Mohideen College, Adirampattinam, Tamilnadu, India</i>

PI.37	Structural, electronic and optical properties of Ir(III) complexes with phenylpyridine ligands: Absorption spectra without and with spin-orbit-coupling Houari BRAHIM ¹ , Chantal DANIEL ² <i>1Département de physique / Université de Saida, Saida, Algérie.</i> <i>2Laboratoire de Chimie Quantique, Université de Strasbourg</i>
PI.38	Optical Properties study Of ZnO Nano Composites prepared by electrochemical Anodization technique on Porous Silicon (PS) Substrate Naceur Selmane ¹ , Ali Cheknane ¹ , Nouredine Gabouze ² <i>1 Université Amar Telidji de Laghouat, Laboratoire des Semi-conducteurs et des Matériaux Fonctionnels, Bd des Martyrs. BP376 Laghouat (03000), Algérie,</i> <i>2 Centre de Recherche Technologique des Semi-conducteurs pour l'Energétique, CRTSE, Alger, Algeria</i>
PI.39	Photoacoustic Spectroscopy Analysis of Xenon Implanted CuInSe₂ Abderrezak Kesmia, Ameur Zegadi, Fatima Zohra Satour <i>Laboratoire : Croissance et Caractérisation de Nouveaux Semiconducteurs (LCCNS), Département d'Électronique, Faculté de Technologie, Université Ferhat Abbas – Sétif 1, 19000 Sétif, Algérie.</i>
PI.40	Synthesis and Characterization of thin films based on SnO₂ for Optic and Photonic Applications B. Sagara and M. Benhaliliba <i>Physics Department, Science Faculty, Oran University of Sciences and Technology, USTOMB, BP1505 Oran Algeria</i>
PI.41	Ytterbium doped zinc oxide thin films produced via sol gel process: Structural and optical study Allag Walid *, Guessas Hocine , Moussaoui Amir <i>Laboratory of photonic systems and nonlinear optics, Institute of Optics and Precision Mechanics Farhat Abbas University, Sétif,</i>
PI.42	Interatomic potentials development and optical properties of alpha tellurite and the europium oxide M M ACHOURI ^{1,2} , N ZIANI ³ , R BOUAMRANE ¹ , A ABDERRAHMANE ^{4,5} <i>1 Laboratoire d'Études Physiques des Matériaux (L.E.P.M), Département de Génie physique, Faculté de physique, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf (USTO-MB), BP 1505, El M'naouar, 31000 Oran, Algérie.</i> <i>2 Service qualité, Département d'ingénierie, Centre de Développement des Satellites (CDS), USTO, Oran, Algérie.</i> <i>3 Département de technologie des matériaux, Faculté de physique, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf (USTO-MB), BP 1505, El M'naouar, 31000, Oran Algérie.</i> <i>4 Division Microélectronique et Nanotechnologie, Centre de Développement des Technologies Avancées (CDTA), Alger, Algérie.</i> <i>5 Laboratoire de la microscopie électronique et sciences des matériaux, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf (USTO-MB), BP 1505, El M'naouar, 31000 Oran, Algérie</i>
PI.43	Structural and electronic properties of Cs₂AgBiCl₆ First principle study R.BEN SADOK ^{1*} , H. DJANI ² , D. HAMMOUTÈNE ¹ <i>1 LTMM, Faculty of Chemistry, USTHB, BP32 El Alia, 16111, Bab Ezzouar, Algiers, Algeria</i> <i>2 CDTA, cité 20 août 1956, BP. 17, Baba Hassen, Algiers, Algeria</i>
PI.44	Determination of optical constants of absorbent materials H. Bendada*, M. Dous, B. Bakhouche <i>Laboratory of photonic systems and nonlinear optics institute of optics and precision mechanics, Ferhat Abbas University Setif 1,</i>
PI.45	Dependence of Judd-Ofelt parameters values with Europium concentrations in Cadmium Fluoride single crystal host H. Boubekri ^{1,2*} , M. Diaf ² <i>1 Ecole Normale Supérieure d'Enseignement Technologique (ENSET), Cité des frères Bousseta, 21100 Azzaba -Skikda (Algérie)</i> <i>2 Laboratory of Laser Physics, Optical Spectroscopy and Optoelectronics (LAPLASO), Badji Mokhtar Annaba University, (Algeria)</i>
PI.46	Temperature Dependent Structural and Optical Properties of Tin Sulfide Thin Films Imane Bouhaf Kherkhachia*, Abdallah Attafa, HananeSaidia , Zidane Hebboulb <i>aPhysic Laboratory of Thin Films and Applications LPCMA, University of Biskra, Algeria</i> <i>b Laboratoire d'optique appliquée .Université de Setif 1, Algeria</i>
PI.47	Effect of dopant material on the optical properties based Mg doped ZnO thin layers deposited on glass substrates A. Boumezoued ¹ , K. Guergouri ¹ , M.Zaabat ¹ , and R.Barille ² <i>1 Laboratory of Active Components and Materials, Faculty of Exact Sciences and Science of Nature and Life, University Larbi Ben M'Hidi of Oum El Bouaghi 04000, Algeria.</i> <i>2Moltech Anjou Université Angers/CNRS UMR 62002, Bd Lavoisier 49045 ANGERS cedex FRANCE</i>
PI.48	Photoluminescence properties of ZnO thin films deposited by DC reactive sputtering onto p-Si substrate L. Chabane, N. Zebbar, Z. Zaaboub, S. Tata ¹ , M. Kechouane <i>1 Department of Materials & Compounds, Faculty of Physics, USTHB, BP 32, 16111 Algiers, Algeria.</i> <i>2 Laboratory of Microelectronie and Nanostructures, Faculty of Sciences, Monastir, Tunisia.</i>
PI.49	Optoelectronics properties of the cubic perovskite PbHfO₃ using GGA and TB-mBJ approximations Djohar CHENINE ¹ , Zoubir AZIZ ¹ and Oum El Kheir YOUNI ¹ <i>1Laboratory of technology and solid properties, Faculty of Sciences and Technology, Abdelhamid Ibn Badis University BP 227 Mostaganem 27000, Algeria</i>
PI.50	Observation and interpretation of VUV emission spectrum of trivalent erbium Er³⁺ Anis Chikh ¹ , Djamel Deghiche ¹ , Ali Meftah ^{1,2} , Omar Lamrous ¹ <i>1 Laboratoire de Physique et Chimie Quantique, Université Mouloud Mammeri, BP 17 RP, 15000 Tizi-Ouzou, Algérie</i> <i>2 LERMA, Observatoire de Paris-Meudon, PSL ResearchUniversity, CNRS, UMR 8112,F-92195 Meudon, France</i>
PI.51	Porous surface processes of ceramic/MgO powder in the photocatalytic activity, prepared by traditional mixture method Dikra Bouras ¹ , Abla Mecif ¹ , Abdelhamid Harabi ² , Mourad Zaabat ¹ , and Barille Regis ³ , M. Racheed ³ , Abdelhakim Mahdjoub ⁴ <i>1 Laboratory of Active Components and Materials, Larbi Ben M'hidi University, Oum El Bouaghi 04000, Algeria,</i> <i>2 Ceramics Lab, Mentouri University of Constantine, Constantine 25000, Algeria,</i> <i>3MOLTECH-Anjou, Université d'Angers/UMR CNRS 6200, 2 Bd Lavoisier, 49045 Angers, France,</i> <i>4 Laboratory of Materials and Structure of Electromechanical Systems and their Reliability, Faculty of Sciences and Technology, Larbi Ben M'Hidi University, Oum El Bouaghi 04000, Algeria</i>

PI.52	The Calculation of Ionization Rate in Hot Plasma using EEDF Samia Dilmi ¹ , Abdelmalek Boumali ² <i>1Faculté des Sciences exactes, University Hama Lakhdar -El-Oued, B.P. 789 El-Oued 39000, Algeria</i> <i>2Laboratoire de Physique Appliquée et Théorique, University Larbi Tébessi -Tébessa-, Algeria.</i>
PI.53	Synthesis and Spectroscopic Characterizations of ZBLAN glasses doped with different TR3+ ions (TR=Eu, Sm, Dy, Pr and Tb) N. Memmi b, N. Abdedou a & T. Djouama a <i>a Laboratoire d'Electronique Quantique, Faculté de Physique, USTHB, Alger, Algérie</i> <i>b Département de physique des matériaux, Faculté de Physique, USTHB, Alger</i>
PI.54	Elaboration of ZrN thin films deposited by laser ablation on the Zr substrate I.GHEMRAS ¹ , S. ABDELLI-MESSACI ¹ , M. IZERROUKEN ² , Y.KHEREDDINE ¹ , M.BOUAKIL ¹ <i>1. Centre de Développement des Technologies Avancées CDTA, Cité 20 août 1956 Baba Hassen, Alger, Algérie,</i> <i>2. Centre nucléaire de Draria, Draria, Alger, Algérie</i>
PI.55	Elaboration and thermal and structural characterization of vitroceraamics doped by rare earth ions: Europium and gadolinium. HASNAOUI Nesrine, BENSALÉM Chaouki <i>Laser Physics and Optical Spectroscopy and Optoelectronics (LAPLASO). Department of Physics, Faculty of Science Badji Mokhtar University, Annaba, Algeria.</i>
PI.56	Optical and structural properties of thin films based on cuprous oxide obtained by electrochemical deposition Abdelmadjid Herbadji ¹ , Ibrahim Yaacoub Bouderbala ^{1,2} , Mentar Loubna ¹ <i>1 Laboratoire de Chimie, Ingénierie Moléculaire et Nanostructures, Université Ferhat Abbas Sétif-1, 19000 Sétif, Algeria.</i> <i>2 Laboratoire des Systèmes Photoniques et Optiques Non Linéaires, Institut d'Optique et Mécanique de Précision, Université Ferhat Abbas – Sétif 1, 19000 Sétif, Algeria</i>
PI.57	Structural and Optoelectronic Properties in halide Perovskites for solar cell and laser applications Houari Mohammed ,Slimane Haid, Bouabdellah Bouadjemi, Tayeb Lantri , Mohamed Matougui Ali Zitouni and Samir Bentata. <i>Faculty of Sciences and Technology, Laboratory of Technology and Solid Propertie, Abdelhamid Ibn Badis University, Mostaganem (27000) Algeria</i>
PI.58	Refractive index characterization of neutron irradiated polyethylene terephthalate polymer K. Chikaoui a, M. Izerrouken b <i>a Laboratory for Nuclear Science, Physics Faculty University of Sciences and Technology – USTHB Algiers</i> <i>b Centre de Recherche Nucléaire de Draria, BP.43 Sebala, Draria, Alger 16000, Algeria</i>
PI.59	Pressure effect on mechanical stability and optoelectronic behavior of ZnGeAs₂-Chalcopyrite: DFT investigation D. kerroum, B.Djebour, H.bouafia, M.Azzouz, and S.Hiadi. <i>Electron Microscopy Laboratory USTO, Department of Physics, BP1505 El m'naouar, Oran, Algeria.</i>
PI.60	Electrodeposition and Characterization of Cu₂O Nanostructured Layers 1 D. Mohra*, 1M. Benhaliliba, 2M.Serin, 3M.R. Khelladi, 3H. Lahmar, 3A. Azizi <i>1 Material Technology Department, Physics Faculty, USTO-MB University, BP1505 Oran, Algeria.</i> <i>2 Yıldız Technical University, Davutpasa Campus Faculty of Arts & Science, Department of Physics, Solid-state Physics 1014 34220 Esenler / Istanbul / Turkey</i> <i>3 Laboratoire de Chimie, IngenierieMoléculaire et Nanostructures, Université Ferhat Abbas-Setif 1, Setif 19000, Algeria</i>
PI.61	STRUCTURAL AND OPTICAL PROPERTIES OF TERNARY ALLOYS Al_{1-x}BixP Y.MEGDOUD, L.TAIRI, H.BENDJEDDOU, R.MAHDJOUBI, S.GHEMID, H.MERADJI AND Z.CHOUAHDA <i>Laboratoire LPR, Departement de Physique, Faculté des Sciences, Université Badji Mokhtar Annaba-ALGERIA</i>
PI.62	Characterization of thin films of ZrO₂ using the Dip-coating technique. S. Mokrane1*, B.Benrabah2, B.Abidri1, H. Bouafia2 <i>1 Laboratoire des Matériaux Magnétiques, Faculté des Sciences, Université Djillali Liabes de Sidi Bel-Abbes 22000 Algérie.</i> <i>2 University Ibn Khaldoun –Tiaret, Faculté des Sciences de la Matière 14000 Algeria</i>
PI.63	Elaboration and characterization of nano-powders TarekDiab Ounis1,2, Mourad Zaabat1, BenHamla Nabil1, M. Rasheed2, R. Barille2 <i>1 Laboratoire, faculty, University Larbi Ben El M'hidi Oum El Bouaghi 04000, Algeri</i> <i>2 MOLTECH-Anjou, Université d'Angers/UMR CNRS 6200, 2 BdLavoisier, 49045 Angers, France</i>
PI.64	COMPOSITIONAL ANALYSIS OF A MULTIVITAMIN TABLET BY LASER -INDUCED BREAKDOWN SPECTROSCOPY Sid Ahmed Beldjilali1*, Jörg Hermann2, Emanuel Axente2, Ahmed Belasri1, and Tewfik Baba-Hamed1 <i>1 LPPMCA, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, USTO-MB, BP 1505 El M'naouer, 31000 Oran, 2LP3, CNRS – Aix-Marseille University, 163 Av. de Luminy, 13288 Marseille, France.</i> <i>2 Laser-Surface-Plasma Interactions Laboratory, Lasers Department, National Institute for Lasers, Plasma and Radiation Physics, 077125 Măgurele-Bucharest, Romania</i>
PI.65	Mechanical characterization of chemically etched optical fibers Nezzar.A1, Boulaiche.N1, Guessoum.A1, Demagh.N-E1 <i>1 Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University, Setif1, Algeri</i>



Poster session II (Monday 7th April)

The posters listed below are to be presented for this session only

PII.1	Deep localized states in amorphous semiconductors Fadila Serdouk and Mohamed-Lotfi Benkhedir <i>Laboratoire de Physique Appliquée et Théorique, L.P.A.T, Université de Tébessa, Algérie</i>
PII.2	Electronic structure and optical properties of CdSnAs₂ N. Si Ziani ¹ , H. Bouhani-Benziane ¹ , M. Baira ¹ , A E K. Belfedal ² , M. Sahnoun ¹ <i>1Laboratoire de Physique Quantique de la Matière et Modélisation Mathématique (LPQ3M), Faculté des Sciences Exactes, Université Mustapha Stambouli, Mascara.</i> <i>2Laboratoire de Chimie-Physique de Macromolécule et interface Biologique, Faculté des Sciences et de la vie, Université Mustapha Stambouli, Mascara.</i>
PII.3	Simulation of The experimental Arsenic diffusion profiles in Germanium Abdelkader SOUIGAT ^{1,2} , Dris SIMANI ² <i>1 Univ Ouargla , Fac. des Mathématiques et des Sciences de la Matière, Lab. Développement des énergies nouvelles et renouvelables dans les zones arides et sahariennes (LENREZA),Ouargla, Algérie</i> <i>2 Ecole Normale Supérieure de Ouargla, Département de Sciences Exactes ,Ouargla 30 000, Algérie</i>
PII.4	Optical and morphological properties of Cu₂ZnSnS₄ thin films produced by sol-gel process C.Tamin ^{1,2} , M.Adnane ^{1,2} , N.Baydogan ³ , D.Chaumont ⁴ , Y.Lacroute ⁴ , S.Benghabrit ^{1,2} , S.Hamzaoui ¹ , ² <i>1 Département de Technologie des Matériaux, Faculté de physique, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, El M'naouar BP 1505 Bir El Djir 31000 Oran, Algérie.</i> <i>2 Electron Microscopy and Materials Science Laboratory (LMESM), Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, El M'naouar BP 1505 Bir El Djir 31000 Oran, Algérie.</i> <i>3 Institute of Energy, Istanbul Technical University, Istanbul, 34469, Turkey.</i> <i>4 ICB, Université de Bourgogne Franche-Comté UBFC, BP 47 870, 21078 Dijon, France</i>
PII.5	Sensitivity and spectral response in hydrogenated amorphous silicon (a-Si: H) elaborated by DC magnetron sputtering. S.Tata ¹ , L.Laidoudi ^{1,2} , R.Cherfi ¹ , L.Chabane ¹ , A.Rahal ¹ <i>1University of Science and Technology Houari Boumediene (USTHB), Department of Materials & Compounds, Algeria</i> <i>2 Higher School of food Sciences and agro-food industry Avenue Ahmed Hamidouche, Beaulieu Road, Algiers, Algeria</i>
PII.6	Calculations of the structural, elastic, electronic and optic properties of the compounds BaZrO₃ and KTaO₃ with cubic structure Fatma Temmar a, Abdelkader Boudali a <i>Physico-chemical laboratory of Studies, Faculty of Science, University of M. Tahar, Saida, Algeria.</i>
PII.7	Elaboration of CdxZn1-xS Thin Films Deposited by Chemical Bath Deposition R. Zellagui ^{1,2} , M. D. Chaumont ² ¹ , A. Boughelout ³ , Adnane ² , <i>1 Laboratory of Electron Microscopy and Materials Sciences, Université des Science et des Technologies d' Oran, Oran, Algérie</i> <i>2 Research Center in Industrial Technologies CRTI, P.O.Box 64, Cheraga 16014, Algiers, Algeria,</i> <i>3 Laboratoire Interdisciplinaire Carnot de Bourgogne, University of Bourgogne France Comté, Dijon,</i>
PII.8	AC conductivity measurements of polyaniline composite materials Fatima Zohra Bourib , Douniazad Mezdour <i>Laboratoire d'études des matériaux Mohamed Seddik Ben Yahia University Jijel, Algeria</i>
PII.9	Optoelectronic and structural properties of ordered double perovskite from first-principles calculations S.Haid ^{1*} , M.Houari ¹ B.bouadjemi ¹ and S.Bentata ² <i>1 Laboratory of Technology and Solid's Properties, Faculty of Sciences and Technology, Abdelhamid Ibn Badis University, Mostaganem</i> <i>2 University of Mascara, Algeria</i>
PII.10	Growth of K₂Al₂B₂O₇ Crystals in vitreous Carbon Crucible. Study of Non-Linear Properties by Second Harmonic Generation A.Hakem, I.Hamadas, D.Ouadjaout (1), A.Maillard, R.Maillard (2) <i>(1)CRTSE, Centre de Recherche en Technologie des Semi-Conducteur pour l'Energétique Alger</i> <i>(2) LMOPS Laboratoire Matériaux Optiques Photonique et Systèmes Supelèc. 57045 Metz</i>
PII.11	Broadband light generation in nonlinear photonic crystals of lithium tantalate with a square lattice Z. Yellas (a), M. R. Beghoul(a), M. Lee(b), H. Bouridah(a), R. Kremer(c), L. H. Peng (d), A. Boudrioua(b) <i>(a) Laboratoire d'Etudes des Matériaux, Université de Jijel, Algérie</i> <i>(b) Laboratoire de Physique des Lasers, CNRS UMR 7538, Université Paris 13, France</i> <i>(c) Université de Lorraine, laboratoire Matériaux Optiques, Photoniques et Systèmes, Metz, France</i> <i>(d) Graduate Institute of Photonics and Optoelectronics and Department of Electrical Engineering, National Taiwan University, Taiwan</i>
PII.12	Ab-initio Calculation of Electronic and Optical properties of Zinc blende AlN and GaN Semiconductors Asmaa KAFI, Fatima-Zohra DRISS-KHODJA, Fatiha SAADAoui <i>Laboratory of Technology of Communications, University of Saïda , 20000 Saïda, Algeria</i> <i>Laboratory of Physico-chemical Studies, University of Saïda, 20000 Saïda, Algeria</i> <i>Laboratory of Technology of Communications, University of Saïda , 20000 Saïda, Algeria</i>
PII.13	First-principles study of the structural, elastic, electronic and optical properties of semiconductor materials CoSb₃, IrSb₃ and CoAs₃ FATIHA Saadaoui, Fatima DRISS KHODJA, Mohammed DRISS KHODJA, Mostefa ZEMOULLI, Abdelkader BOUDALI, Abdelkader BENTAYEB and Nouredine MERBOUH <i>Laboratoire des Etudes Physico-Chimiques, Université de Saïda, 20000 Saïda, Algérie</i>
PII.14	Electronic and optical properties of II-VI semiconductors; ab initio study F. ZAMI ^{1*} , L. DJOUDI ² , R. BELACEL ³ , S. BENALIA ² . <i>1Condensed Matter and Sustainable Development Laboratory, Physics Department, Sidi-Bel-Abbès University, 22000 Sidi-Bel-Abbès,</i> <i>2Tissemsilt University Center, Science and Technology Institute, 38000Tissemsilt, Algeria.</i> <i>3 Magnetic Materials Laboratory, Physics Department, Sidi-Bel-Abbès University, 22000 Sidi-Bel-Abbès, Algeria.</i>

PII.15	Optoelectronic Properties of Ba₂CoMoO₆ Double Perovskite Amel SOUIDI*, a, S. BENTATA*, S. HAID* and B. BOUADJEMI* <i>Laboratory of technology and solids properties, Abdelhamid Ibn Badis University, Mostaganem, Algeria.</i>
PII.16	Study and Simulation of photogenerated carrier of an Ultrat-Violet MSM photodetector based ZnO, Ghania Harzallah1, Amina Merzougui2 <i>University, Skikda, Algeria</i>
PII.17	Analytical Study of Electronic and Optical Properties of InAs / InGaAs Quantum Dot Laser Soufyane TALEB, Belabbéss SOUDINI, Ibrahim LAGRAA <i>Applied Materials Laboratory (AML), University of Sidi Bel Abbès, Sidi Bel Abbès, Algeria.</i>
PII.18	Design and Optimization of dimensions of the apple shape-slot SIW Antenna in K Band via Artificial Neural Network ABES Turkiya1, NOURI Keltouma1, JUNWU Tao2 <i>1Technology of Communications Laboratory University of Saida, Algeria</i> <i>2 LAPLACE Laboratory, INP-ENSEEIH Toulouse, University of Toulouse</i>
PII.19	Theoretical investigation of structural, electronic and optical properties of chalcopyrite compound CuInTe₂ for photovoltaic conversion R. Mahdjoubi*,a,b, H. Bendjeddou1,a, Y. Megdoud 2,a, H. Meradji3,a, S. Ghemid4,a <i>a LPR Laboratory, Department of Physics, Faculty of sciences,</i> <i>bLESIMS Laboratory, Department of physics, Faculty of sciences,</i> <i>Badji Mokhtar university, 23000 Annaba, B.P. 12, Algeria.</i>
PII.20	Half-Heusler compounds with a 1 (eV) direct band gap, for solar cell application N. Belmiloud 1, H. Benaïssa1,2, S. Azzi 1,3, F. Belkharroubi 1, H. Heddar 1,4 and M. Ferhat 1 <i>Département de Génie Physique, Laboratoire de Physique des Matériaux et Fluides (LPMF), Université des Sciences et de la Technologie d'Oran, USTO, Oran, Algérie</i>
PII.21	Surface shape measurement of solar cells by a deflectometry system with fringe projection , Bouaziz djamil1, Boudoukha Rayenne1, Guessoum Assia1, Demagh eddine1 <i>Applied Optics Laboratory, Institute of Optics and Precision Mechanics, Ferhat Abbas University, Sétif1, Algeria.</i>
PII.22	The effects of optical interference on the performance P3HT:PCBM and PCPDTBT:PC60BT organic solar cells F. Brioua1*, H. Bourouina2, C. Daoudi1, M. Remram1 <i>1Laboratoire LEMEMED , Département d'électronique, Université des Frères Mentouri Constantine, Algeria.</i> <i>2 Laboratoire de Physique, Ecole Normale Supérieure Bou-Saada, 28200 M'sila, Algeria</i>
PII.23	Extraction of silica from diatomite for optical applications and for solar grade silicon (SoG-Si) development Laid Kadri1,2, Abdennour Mohamed Sahari1,2, Abdelkader Abderrahmane2,3, Abdelmadjid Khat1, Saad Hamzaoui2 <i>1 Département de technologie des matériaux, Faculté de physique, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, El M'naouer BP 1505 Bir El Djir 31000 Oran, Algérie.</i> <i>2 Laboratoire de la microscopie électronique et sciences des matériaux (LMESM), Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, El M'naouer BP 1505 Bir El Djir 31000 Oran, Algérie.</i> <i>3 Division Microélectronique et Nanotechnologie, Centre de Développement des Technologies Avancées (CDTA), Alger, Algérie</i>
PII.24	Elaboration of solar cells based on copper oxide by magnetron sputtering R. TADJINE, M.M. ALIM, <i>CDTA, Cité du 20 Août 1956, BP N°17 Baba-Hassen -16303 Alger - Algérie</i>
PII.25	Optoelectronic Properties of the CuInX₂(X=Se, Te) Semiconductor Applied to Photovoltaic Cells M.Azzouz, D.kerroum, H.Bouafia and S.Hiadi <i>Electron Microscopy Laboratory USTO, Department of Physics, BP1505 El m'naouer, Oran, Algeria.</i>
PII.26	The Opto-Electronic Properties of the ZnO Pure and Sn-ZnO p-Type Thin Films For the Solar Cells C. ZEGADI*1, A. ABDRAHMANE ^{2,3} , S. HAMZAOU1 ² , M. ADNANE ² , T. BENMESSAOUD ³ , T. SAHRAOUI <i>1Ecole Nationale Polytechnique d'Oran –Maurice Audin, ENPO-MA (ex-ENSET), Département Physique-Chimie.BP Oran 31000 ALGERIE,</i> <i>2 Laboratory of Electron Microscopy and Materials Sciences, University of Science and Technology of Oran, El-Mnaouer Oran, Algeria</i> <i>3Division Microélectronique et Nanotechnologie, Centre de Développement des Technologies Avancées (CDTA), Alger, Algérie</i> <i>4Département de génie électrique, university of Science and Technology of Oran, P.O. Box 1505, 31000 El-Mnaouer Oran, Algeria1</i>
PII.27	OPTOELECTRONIC PROPERTIES OF FULL-HEUSLER ALLOYS Cs₂CrGe S. CHERID, S. HAID, S. BENTATA* , F. BENDAHMA, A. ZITOUNI AND R. DJELTI. <i>LTPS Laboratory – Faculty of Sciences and Technology – Mostaganem University, Algeria</i> <i>* Université Mustapha Stambouli - Mascara.</i>
PII.28	Functional TiO₂ thin films: Application in solar cells Hind LAOUAMRI1, Oumaima OUDNI, Nouredine BOUAOUADJA1 <i>1 Laboratory of Non Metallic Materials, Institute of Optics and Precision Mechanics University Setif 1, 19000 Algeria</i>
PII.29	Elaboration and characterization of copper oxide (CuO) nanostructures obtained by sol gel method : photovoltaic applications Moussaoui Amir*, Beniaïche Abdelkarim, Nouri Abdelhak, Allag Walid <i>Laboratory of photonic systems and nonlinear optics, Institute of Optics and Precision Mechanics Ferhat Abbas university, Setif,</i>
PII.30	Enhancement of Polarization Mode Conversion Efficiency in 2D Magneto-Photonic Crystals Slab Polarization-Independent Waveguide R. DEGHDAK, M. BOUCHEMAT, M. LAHOUBI, H. BOUROUINA, S. PU, T. BOUCHEMAT, H. OTMANI <i>1University of Mentouri Brothers Constantine, Laboratory L.M.I., Department of Electronics, 25017 Constantine, Algeria,</i> <i>2Badji-Mokhtar Annaba University, Laboratory L.P.S., Department of Physics, 23000 Annaba, Algeria,</i> <i>3 Département des sciences exacte, Ecole Normale Supérieure Bou-Saada, 28200 M'Sila, Algeria,</i> <i>4University of Shanghai for Science and Technology, College of Science, Shanghai 200093, China,</i>
PII.31	High Sensitivity Biosensor based on a duplex photonic crystal material incorporating silver and gold K.A.Meradi1,2*, F.Tayeboun3, S.Ghezali3 1 <i>1 Institute of Technology University of Ain Temouchent BP 284 RP, 46000, Algeria</i> <i>2 Laboratory of Materials Study & Optical Instrumentation (LEMIO) University Djillali Liabes Sidi-Bel-Abbes 22000, Algeria</i> <i>3 University Djillali Liabes Sidi-Bel-Abbes 22000, Algeria</i>

PII.32	The connection between the q- Dirac Oscillator and a quantum optics in One and Two Dimensions, Abdelmalek Boumali <i>Laboratoire de Physique Appliquée et Théorique, Université Larbi Tébessi, Tébessa, Algeria</i>
PII.33	Bandgaps Behavior of Quantum Well Superlattices Oualid Cheref <i>Laboratory of Magnetic Materials, Faculty of Sciences, Djillali Liabès University of Sidi Bel-Abbes, Sidi Bel-Abbès Algeria.</i>
PII.34	Four channel Wavelength Demultiplexer Based on 2D Photonic Crystals Ring Resonators, Ghezali 1 , F.Tayeboun1, K.A.Meradi2 <i>1University Djillali Liabes Sidi-Bel-Abbes 22000, Algeria</i> <i>2 Institute of Science and Technology University of Ain Temouchent BP 284 RP, 46000, Algeria</i>
PII.35	Rib Waveguides in ZnO Thin films by Inductively Coupled Plasma Etching (ICP) H. Layoul1, F. Meriche, M. Chaker, B. Le Drogoff, S. Delprat, A. Boudrioua <i>1Laboratoire d'Etude des Matériaux, Université Mohamed Seddik BenYahia Jijel, Algérie.</i> <i>2Institut National de la Recherche Scientifique, EMT, Varennes, QC, J3X 1S2, Canada.</i> <i>3Laboratoire de Physique des Lasers, Université Paris 13, Villetaneuse 93430, France.</i>
PII.36	FDTD Optimization of Plasmonic Nanostructures for Better SERS Substrates, S. Mesli, L. Dehbi, M. Hamidi, A. Belkhir, O. Lamrous <i>Laboratoire de Physique et Chimie Quantique, Faculté des Sciences, Université Mouloud Mammeri de Tizi-Ouzou, 15000, Algérie</i>
PII.37	Low-loss optical waveguides of ZnO thin films deposited by RF magnetron sputtering, S. Zaabat 1,2, F. Challali 3, M. Chakaroun 1, J. Solard 1, A. Garcia-Sanchez 3, V. Bockelée 3, B. Boudine 4, A. Boudrioua1 <i>1LPL, CNRS UMR 7538, Université Paris 13, 93430 Villetaneuse, France</i> <i>2 LCAM, Université d'Oum El Bouaghi, 04000 Oum El Bouaghi, Algérie</i> <i>3 LSPM, CNRS UPR 3407, Université Paris 13, 93430 Villetaneuse, France</i> <i>4 LC, Faculté des Sciences Exactes, Université Mentouri, 25000 Constantine, Algérie</i>
PII.38	Design of a half-wave plate based on metamaterials in the optical range T. Zeghdoudi ¹ , Z. Kebci ¹ , A. Mezeghrane ¹ , O. Lamrous ¹ , A. Belkhir ¹ and F.I Baida ² <i>1Laboratoire de Physique et Chimie Quantique, Faculté des Sciences, Université Mouloud Mammeri de Tizi-Ouzou, Algérie.</i> <i>2 Département d'optique P. M. Duffieux, Institut FEMTO-ST, UMR 6174 CNRS Université Bourgogne Franche-Comté Besançon France.</i>
PII.39	On surface lattice resonances of periodic metallic nanoparticles grating and Rayleigh anomalies S. Hamdad, A. T. Diallo, M. Chakaroun and A. Boudrioua <i>Université Paris 13, Sorbonne Paris Cité, Laboratoire de Physique des Lasers, CNRS (UMR7538) 93430 Villetaneuse, France</i>
PII.40	Investigation of the Electrical Characteristics of an Organic Light Emitting Diode using Silvaco-TCAD, D. Nebti1, Z. Hadjoub1, A. Bounouala1, A. Guerraoui2, F.Z. Khelifati1, 3 and A. Doghmane1, <i>1Semiconductor Laboratory, Department of Physics, Faculty of Sciences, Badji Mokhtar University - Annaba, BP 12, Algeria,</i> <i>2PRIMALAB Laboratory, Department of Physics, Faculty of Material Sciences University of Batna 1, Batna 05000Algeria.</i> <i>3Université Chadli Bendjedid, Département de Physique, Faculté des Sciences et de la Technologie, BP 73, El-Taraf, 36000 Algeria</i>
PII.41	Visible light photoredox catalysis: An interesting tool for cleaner organic synthesis Houcine Choubane , Mortada Daaou <i>Laboratoire « Synthèse organique, Physico-chimie, Biomolécules et Environnement (LSPBE)»,</i> <i>Département « Chimie Organique Industrielle », Université des Sciences et de la Technologie d'Oran -Mohamed Boudiaf-, Algérie.</i>
PII.42	The MEH-PPV as a novel organic microelectronic device S.Meftah, M.Benhaliliba <i>Material Technology Department, Physics Faculty, USTO-MB University, BP1505 Oran,Algeria.</i>
PII.43	Organic Pollutant Photodecolourisation by Biosillica Material in the Aquatic Medium , REZIG Walid ^{1*} , HADJEL Mohammed ² <i>^{1*} Laboratoire des Sciences, Technologie et Génie des Procédés LSTGP ; Faculty of Chemistry ; Depaetement of Chemical Engineering; University of Sciences and the Technology of Oran Mohamed Boudiaf USTO-MB ; BP 1505 el M'naoueur Bir el Djir 31000 Oran Algeria.</i> <i>^{2*} Laboratoire des Sciences, Technologie et Génie des Procédés LSTGP ; Faculty of Chemistry ; Depaetement of Industrial Organic Chemistry ; University of Sciences and the Technology of Oran Mohamed Boudiaf USTO-MB ; BP 1505 el M'naoueur Bir el Djir Oran.</i>
PII.44	Electric field distribution for different refractive index of organic liquids of an optical channel drop filter on a 2D photonic crystal ring resonator Mehdi Ghoumazia,b, Abdesselam Hocinia <i>aLaboratoire d'Analyse des signaux et Systèmes, Département d'Electronique, faculté de technologie, Université Mohamed boudiaf de M'Sila, Bp.166, Route Ichbilila, M'Sila 28000, Alegria.</i> <i>bUnité de Recherche en Optique et Photonique (URO-P-Sétif), Centre de Développement des Technologies Avancées (CDTA), Alger, Algérie.</i>
PII.45	Plasmonic Field in Nanostructure Based Nanoholes: Effect of Virtual Molecule Presence KHAMMAR Messaouda1, 2 <i>1Center for Development of Advanced Technologies (CDTA), Research Unit in Optics and Photonics (URO-P), Conception and Modeling Research team, Farhat Abbas University 1, El Bez, Setif, Algeria,</i> <i>2Laboratory of Thin Films and Interface, Faculty of the Science-University of Constantine1, Algeria</i>
PII.46	Propagation of Chirped Vector Solitons in Birefringent Optical Fibers with Variable Coefficients in the Presence of Fourth Order Dispersion S. Aziez ¹²³ , Bahloul ² , R. Zellagui ³ <i>1 Centre de Recherche Scientifique et Technique en analyse physico-chimique CRAPC, Zone Industrielle lot n°30, Bou Ismail, Tipaza 2</i> <i>Département de physique, Faculté des Sciences, Université Hadj-Lakhdar de Batna, Algerie</i> <i>3 Laboratoire microscopie électronique à balayage et sciences des matériaux, Université des sciences et des technologies, Oran.</i>
PII.47	Image Transmission by Light Fidelity Ssewannonda Keith Edwin, Meche Abdelkrim and Dahmani Mohammed <i>University of Science and Technology of Oran Mohamed Boudiaf (USTO)</i>
PII.48	Spectrals Characteristics of Fiber Bragg gratings Y. Hamaizi and H. Triki <i>Radiation Physics Laboratory, Department of Physics, Faculty of Sciences, Badji Mokhtar University, Annaba, Algeria.</i>

PII.49	Resolution and 3D Point Spread Function of Fluorescence Confocal Microscope Taallah Hossem ^{1,2} , Medjahed Aicha ² <i>1 Research Unit of emerging materials, Ferhat Abbas University Setif 1, Setif, Algeria.</i> <i>2 Laboratory of Applied Optics, Institute of optics and precision mechanics, Ferhat Abbas University Setif 1, Setif, Algeria.</i>
PII.50	Optical characterization of α-Alumina fabricated by Spark Plasma Sintering S. Benaissa ¹³ , M. Hamidouche ²³ , G. Fantozzi ⁴ <i>1 Optical Research and Photonics Unit, CDTA, Ferhat Abbas University Setif 1</i> <i>2 Emerging Materials Research Unit, Ferhat Abbas University Setif 1</i> <i>3 Optics and Precision Mechanics Institute, Ferhat Abbas University Setif 1</i> <i>4 MATEIS Laboratory, INSA Lyon, France</i>
PII.51	Integration of MOEMS based Micro Mirrors in Laser Sources Mokhtaria Derkaoui <i>Laboratoire LaRATIC, Institut National des Télécommunications et des TIC, INTTIC, Oran, Algeria.</i>
PII.52	Design and photoinduced surface relief grating formation of photoresponsive azobenzene based molecular materials Containing Ruthenium Acetylides N. Kichou ^{1,2} , N. Ghechtouli ¹ , Z. Hank ² . <i>1 Université de Mouloud Mammeri de Tizi- Ouzou, Tizi-ouzou, 15000 Algérie</i> <i>2 Laboratoire d'Electrochimie - Corrosion, Métallurgie et Chimie Minérale, Faculté de Chimie ,</i> <i>3 U.S.T.H.B, BP 32 El Alia, Bab-ezzouar, 16111 Alger- Algeria,</i>
PII.53	Electronic properties of Eu²⁺ doped Ca₂GeO₄ : Theoretical study M. Baira ¹ , A. Bekhti-Siad ² , N.Siziani ¹ , H. Bouhani-Benzian ¹ , K. hebali, M. Sahnoun ¹ . <i>1 Laboratoire de Physique Quantique de la Matière et Modélisation Mathématique (LPQ3M), Faculté des Sciences Exactes, Université Mustapha Stambouli, Mascara.</i> <i>2 Laboratoire de Matériaux Applications et Environnement, Faculté des Sciences Exactes. Université Mustapha Stambouli, Mascara.</i>
PII.54	Optical properties of SnO₂: Theoretical study A. Bekhti-Siad ² , M. Baira ¹ , K. hebali ¹ , N.Siziani ¹ , H. Bouhani-Benzian ¹ <i>1 Laboratoire de Matériaux Applications et Environnement, Faculté des Sciences Exactes. Université Mustapha Stambouli, Mascara.</i> <i>2 Laboratoire de Physique Quantique de la Matière et Modélisation Mathématique (LPQ3M), Faculté des Sciences Exactes, Université Mustapha Stambouli, Mascara.</i>
PII.55	Use of envelope method for calculating refractive index and thickness of Cu₂O-n thin films Ibrahim Yaacoub Bouderbala ^{1,2} , Abdelmadjid Herbadji ¹ , Mentar Loubna ¹ <i>1 Laboratoire de Chimie, Ingénierie Moléculaire et Nanostructures, Université Ferhat Abbas Sétif-1, Sétif, Algeria.</i> <i>2 Laboratoire des Systèmes Photoniques et Optiques Non Linéaires, Institut d'Optique et Mécanique de Précision, Université Ferhat Abbas – Sétif 1, 19000 Sétif, Algeria</i>
PII.56	Charge Transfer in Tetracene, Isochrysene and Pyrene derivatives KHELLADI I. *, RAHMOUNI A. *, RAHAL-SEKKAL M. ** <i>*Université Tahar Moulay de Saida, Algérie</i> <i>**Université Djillali Liabes de Sidi Bel Abbès, Algérie</i>
PII.57	Study and development of the UV emission of a Kr/Cl lamp for biological and medical applications N. Larbi Daho Bachir ^(1,a) , A. Belasri ⁽¹⁾ , B. Caillier ⁽²⁾ and P. Guillot ⁽²⁾ <i>(1)LPPMCA Laboratoire physique des plasmas matériaux conducteur et leurs applications université des Sciences et de la Technologie d'Oran – Mohamed Boudiaf, Algeria</i> <i>(2) DPHE Plasma Lab , INU Champollion, Albi, Toulouse University, France</i>
PII.58	Revisiting Stabilities of Cubic Zinc blende IV-IV Materials From Density Functional Theory N. Hammou ¹ , A. Zaoui ² , M. Ferhat ¹ , I. Messaoudi ¹ <i>1Département de Génie Physique, (LPMF), Faculté des Sciences, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf, USTO-MB, Oran, Algeria..</i> <i>2LGCgE, Polytech'Lille, Université Lille 1 Sciences et Technologies, Villeneuve D'Ascq France.</i>
PII.59	Effects of the illumination and frequency on the capacitance-voltage characteristic of MOS structure, N. DOUKHANE, B. BIROUK <i>Department of electronics Technology and science Faculty, Laboratory of renewable energies, University of Jijel, Algeria</i>
PII.60	Comparative study on the output parameters of two thin-film solar cells based on CIGS and CIS Bechlaghem. S, Zebentout. B, .Elkadi. B and Benamara. Z <i>Laboratoire de Microélectronique Appliquée, Faculté de Génie Electrique Université Djilali Liabès de Sidi Bel Abbès – Algérie</i>
PII.61	One-dimensional modeling of the effects of structure on the characteristics of silicon solar cells A. Oulebsir ^{1,2} , O. Ziane ¹ , A. Mesrane ² , M. Chalal ^{1,2} , S. Zaiba ^{1,2} , A. Tellal ¹ <i>1 Laboratoire d'Electronique Quantique, Faculté de physique, Université des Sciences et de Technologie Houari Boumediene USTHB</i> <i>2 Département de physique, Faculté des Sciences, Université M'Hamed Bougara de Boumerdès, Boumerdès</i>
PII.62	Effect of incidence angle on defect mode in one dimensional photonic crystal, D.Mansour ¹ , R.Yagoub ² , K.Senouci ¹ <i>(1)Université de Mostaganem, faculté des sciences exactes et de l'informatique, département de physique,, Mostaganem, Algeria</i> <i>(2)Ecole National Polytechnique d'Oran, département de physique, B.P. 1523, El M'naouer, 31000, Oran, Algeria</i>
PII.63	Fabrication of Organic Heterojunction Diodes Based On A-Z Phthalocyanine by Thermal Evaporation Process M. Benhaliliba, I. Missoum, <i>Material Technology Dept. Physics Faculty, USTO-MB University, BP1505 Oran, Algeria.</i>
PII,64	New Design of Optical Zero Correlation Zone Code 1FASSI Benattou, 2Taleb-Ahmed Abdelmalik <i>1Telecommunications and Digital Signal Processing Laboratory, Faculty of Electrical Engineering, University of Djillali Liabes, Sidi Bel Abbes 22000, Algeria</i> <i>2Laboratoire LAMIH UMR C.N.R.S 8530, Université de Valenciennes et du Hainaut Cambresis le Mont Houy 59313, France</i>

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