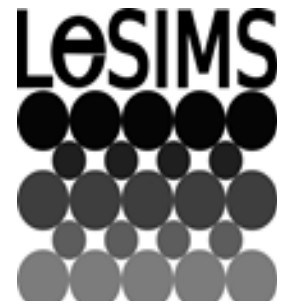




Ferhat ABBAS SETIF 1 University - Faculty Of Technology
Laboratory of Surfaces and Interfaces Studies of Solid Materials
(LESIMS)

- Materials and thin films synthesis characterizations and applications
- Soft Condensed Matter
- Magnetic Materials
- Semiconductor Materials
- Optoelectronic Materials
- Nanomaterials
- Functional Materials.
- Computational Materials Science

ICMS 2018 International Conference on Materials Science September 12-14, 2018



International Conference on Materials Science (ICMS2018)

Program Book

WELCOME MESSAGE

On behalf of the Scientific and Organizing Committees, we are pleased to extend you a very cordial welcome to the International Conference on Materials Science (ICMS2018) held at Ferhat ABBAS SETIF1 University. We would like to thank all the delegates for attending and for their efforts in making ICMS2018 a success. We are thankful to all our invited speakers for accepting our invitations and offering to share their knowledge with the ICMS2018 delegates.

This event *ICMS2018* has been planned to present up to date research and results in the field of emergent and functional materials. The Conference provides

also an occasion for the delegates to share their findings and exchange advanced ideas and applications to establish a fruitful relationship with each other. Indeed, it is a platform for the researchers to find global partners for future collaboration. ICMS2018 provides a productive platform with a motivating strength for material scientists, solid state physicists, chemists, technologists... The main conference topics consist of *Materials characterizations and applications, Soft Condensed Matter,*

Magnetic Materials, Semiconductor Materials, Optoelectronic Materials, Nanomaterials, Functional Materials and Computational Materials Science. We are immensely thankful to all the Responsibles of these topics, Profs. Amor AZIZI, Abdelkader BOURZAMI, Ahmed KHARMOUCHE, Nouredine BENOATTAS, Azeddine CHELOUCHE, Abdelkrim ROUMILI, Nouredine BOUAOUADJA, Abdelmadjid BOUHAMADOU, Ammar MOSBAH and Abdelghani MERDAS, for their efforts in evaluating the large number of submitted abstracts. We are especially grateful to our Colleagues, Profs. Kamel OUARI and Messaoud GUELLAL, for their efforts to design the different certificates. We are also very thankful to the Websmaster, Mr. Nassim BENACHOUR, for the effort and energy spend in managing the ICMS2018 Platform.

Prof. Lahcene BENCHEIKH, my longtime friend, spared no effort to welcome our guests overseas and made sure everything went well, every day.

We hope you will enjoy the conference and will tremendously benefit from attending ICMS2018. Enjoy the conference, enjoy SETIF and enjoy ALGERIA.

Prof. Ahmed KHARMOUCHE
ICMS2018 Conference Director



Prof. Dr. Ahmed KHARMOUCHE
Conference Director

Committees

Organizing Committee

Prof. AHMED KHARMOUCHE
Prof. ABDELKRIM ROUMILI
Prof. KAMEL OUARI
Prof. GUELLOU MESSAOUD
Prof. AMAR MOSBAH
Prof. ABDELKADER BOURZAMI
Prof. NOUREDDINE BENOUEATTAS
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Dr. MASSINISSA TINOUCHE
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Mme. BENACHOUR LILIA
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Prof. Azeddine Chellouche (Univ. A. Mira, Béjaia)
Prof. Alexander Samardak (Univ. Lomonosov, Russia)
Prof. Fikret Yildiz (GYTE, Istanbul, Turkey)
Prof. Abdelkader Bourzami (UFASETIF 1)
Prof. Nouredine Benouattas (UFASETIF 1)
Prof. Abdelkrim Roumili (UFASETIF 1)
Prof. Amar Mosbah (UFASETIF 1)
Prof. Evangelos Hristoforou (NTU of Athens, Greece)
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Prof. Ernst Helmut Brandt (Univ. Stuttgart, Germany)
Prof. A. Kamal Yahya (UTeknologi MARA, Malaysia)
Prof. Abdelmadjid Bouhemadou (UFASETIF 1)

REGISTRATION & BADGE PICKUP

The Conference registration desk is located at the lobby/Salah KARMI Conference Room. All participants are kindly asked to go to the Registration Desks upon arrival. Access to the conference site will be only possible for registered participants. You are required to wear your name badge during the whole conference.

The ICMS 2018 Conference Registration desk will be open at the following times:

11 September Tuesday 14:00-17:00

12 September Wednesday 7:30-17:00

13 September Thursday 7:30-15:00

CULTURAL PROGRAM

You are kindly invited to visit the archeological site of DJEMILA (CUICUL) on Friday morning,
September 14th



12 SEPTEMBER 2018

8:30-9:00

OPENING CEREMONY

9:00-9:45 Main Room

PLENARY TALK

NANOTECHNOLOGY and POLYMER NANOMATERIALS: HISTORY EVOLUTION, EXAMPLES AND PERSPECTIVES.

Prof. D. BENACHOUR

LMPMP, Faculty of Technology, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA



9:45-10:00

COFFEE BREAK

12 SEPTEMBER 2018

Room1

ORAL PRESENTATIONS

Room1: Main Room	TOPIC1: Materials and thin films synthesis, characterizations and applications	Session Chair Prof. Amor AZIZI, Kamel Ouari, Amar MOSBAH	
Time	Title	Abs.ID	Presenter, Affiliation
10:00-10:15	Electrochemical synthesis and characterization of Bismuth oxide thin films from alkaline bath: Effect of annealing temperature	742	Salem BOUDINAR LPCM, MOULOUD MAMERI UNIVERSITY of TIZI OUZOU, ALGERIA
10:15-10:30	Synthesis and characterization of In-Y codoped ZnO thin films prepared by spin-coating technique	753	Abdelhamid BOUAINE LPMCN, MOHAMED SEDDIK BENYAHIA UNIVERSITY of JIJEL, ALGERIA
10:30-10:45	Raman analysis of carbon based thin films	767	Mohamed OUCHABANE Center for Development of Advanced Technologies CDTA, Algiers
10:45-11:00	Effect of annealing time on recrystallization superplastic alloys Al-Li (8090)	768	Afele DERROUCHE Research Center in Industrial Technologies (CRTI), FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
11:00-11:15	3D ordered mesoporous Fe-KIT-6 catalysts for methylcyclopentane (MCP)	805	Rima MERKACHE Institut de Chimie et Procédés pour l'Energie, l'Environnement

			et la Santé-ICPEES, UMR7515 CNRS, Université de Strasbourg, FRANCE
11:15-11:30	Copper oxide synthesis by spray pyrolysis technique: characterizations and application	840	Abdelmounaim CHETOUI Center for Development of Advanced Technologies CDTA, Algiers
11:30-11:45	Development of a wear-resistant steel	766	Souad AYADI BM Annaba University
11:45-12:00	Synthesizing of Hydroxyapatite Powder for Thin Films Applications	687	Selma ATTAABI BM Annaba University
11:45-12:00	Effect of chemical tempering parameters on the mechanical properties of glass	977	Oumessad GRIDI EMERGING MATERIALS RESEARCH UNIT, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
12:00-14:00	LUNCH BREAK		

12 SEPTEMBER 2018 AFTERNOON ROOM1

Room1: Main Room	TOPIC1: Materials and thin films synthesis, characterizations and applications	Session Chair Amor AZIZI, Prof. Kamel Ouari, Amar MOSBAH	
Time	Title	Abs.ID	Presenter, Affiliation
14:00-14:15	Sol-gel synthesis and characterization of monolith and transparent Sr, Fe and Al-doped TiO ₂	1088	Abderraouf JRABA Faculty of Science of GABES, TUNISIA
14:15-14:30	Fabrication and Characterization of Natural Dye Sensitized Solar Cell with curcumin and aminothymoquinone	1104	Mehboob NAGARBAWDI Dpt. Physics, Poona College, Camp, Pune-411001, INDIA
14:30-14:45	Study of substrate effect on magnetic and structural properties of Co thin films, deposited on Si (100), glass and GaAs substrates	1187	Massinissa TINOUCHE ABDERRAHMANE MIRA UNIVERSITY of BEJAIA, LESIMS, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
14:45-15:00	ZnO: M (M = Mg, Ag and Mn)/ZnAl ₂ O ₄ heterostructures formation on silicon substrate for gas detection	1418	Sabrina IAICHE ABBAS LAGHROUR UNIVERSITY of KHENCHELA, ALGERIA
15:00-15:15	Effect of the nature of the solution on optical and mechanical properties of ZnO thin films deposited by the spray pyrolysis technique on a local glass production	1419	Zahra HAMIDOUCHE MALOU EMERGING MATERIALS RESEARCH UNIT, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
15:15-15:30	Properties of short hollow recycled PET fiber reinforced crosslinked Polypropylene Composites	1429	Samia KERAKRA EMERGING MATERIALS RESEARCH UNIT, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
15:30-15:45	Synthesis of Cu ₂ SnO ₃ , Structural and morphological studies	1498	Djalila BOUDEMAGH FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
15:45-16:00	Morphological study of thin chromium layer deposited on glass substrate	1185	Rebiha LABBANI MENTOURI CONSTANTINE UNIVERSITY, ALGERIA

16:00-16:20	COFFEE BREAK
16:20-18:00	VISIT TO RESEARCH UNIT AND LABORATORIES OF SETIF1 FERHAT ABBAS UNIVERSITY

13 SEPTEMBER 2018

8:00-8:45 Main Room

PLENARY TALK1

Nanoscience and Nanotechnology in Algeria

Dr. Hadj Mohamed BENIA

Unit of Research on Nanoscience and Nanotechnology (URNN)

Center for the Development of Advanced Technologies (CDTA)

FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA



8:45-9:30 Main Room

PLENARY TALK2

Environmentally Sustainable Manufacturing Processes for Energy :

- **Synthesis of eco-friendly multifunctional nano-materials**
- **New Inexpensive and More Environmentally Friendly Solar Cell**

Dr. Mehboob NAGARBAWDI,

CEO, Department of Physics, Poona College, Camp, Pune –
411001. INDIA



9:30-09:45

COFFEE BREAK

13 SEPTEMBER 2018 MORNING ROOM1

Room1: Main Room	TOPIC4: Semiconductors Materials	Session Chair Prof. Noureddine BENOUETTAS	
Time	Title	Abs. ID	Presenter, Affiliation
9:45-10:00	The study of annealing temperature effect on Cu ₂ O nanostructures prepared by electrochemical deposition	798	Ouidad BAKA Kasdi MERBAH UNIVERSITY of OUARGLA, ALGERIA
10:00-10:15	Photoactivity of nitrogen-doped mesoporous TiO ₂ in the degradation of orange methyl	817	Mouna Wissem GUELLIL ABOUBAKR BELKAID UNIVERSITY of TLEMCEM, ALGERIA
10:15-10:30	Electron Distribution of ZnO and ZnSe by mBJ-GGA Approximation associated to like electron-matter and photon-matter interactions in Experimental Analysis (Auger electron spectroscopy and X-Ray photoelectron Spectroscopy).	1077	Mohamed Salah HALATI LABMAT Al M'naouar Sénia - ORAN Faculty Of Biology ALGERIA
10:30-10:45	Theoretical Prediction of Structural and Electronic Properties of <i>BeSe_{1-x}Te_x</i> ternary	1101	Asmaa ZAMI LMCDD, DJILALI LIABES

	alloys		UNIVERSITY of SIDI BELABBES, ALGERIA
10:45-11:00	Electrical properties of Au/n-InP Schottky diode InN interfacial layer	1301	Abdelkrim KHEDIR LMA, DJILALI LIABES UNIVERSITY of SIDI BELABBES, ALGERIA
11:00-11:15	Mechanical and Thermophysical Properties of Cubic Rock-Salt AlN Under High Pressure	1342	Noudjoud LEBGA MOHAMED EL BACHIR EL IBRAHIMI UNIVERSITY of BORDJ BOUARRERIDJ, ALGERIA
11:15-11:30	DOPING EFFECT ON THE PARAMETER IN II-VI BASED QUANTUM WELL LASER	1413	Houaria RIANE Mustapha STAMBOULI UNIVERSITY of MASCARA, ALGERIA
12:00-14:00	LUNCH BREAK		

13 SEPTEMBRE 2018 AFTERNOON ROOM1

Room1: Main room	TOPIC7: Functional Materials	Session Chair Prof. Nouredine BOUAOUADJA	
Time	Title	Abs.ID	Presenter, Affiliation
14:00-14:15	The use of clay as a support for drugs in polymeric matrix	1115	Nesma BAA HOUARI BOUMEDIENE UNIVERSITY of SCIENCE and TECHNOLOGY, ALGERIA
14:15-14:30	Synthesis of new functional materials by a montmorillonite clay called Maghnite-H+ (Algerian MMT).	1179	Sara HAOUE AHMED BENBELLA UNIVERSITY of ORANI, ALGERIA
14:30-14:45	Characterization of cemented carbide containing 11% mass cobalt elaborated by hot isostatic pressing.	904	Hassiba RABOUHI ABDERRAHMANE MIRA UNIVERSITY of BEJAIA, ALGERIA
14:45-15:00	Elaboration, optical and crystallographic structure studies of new organic-inorganic material	926	Hakima AIT YUCEF LEIMCR, FACULTY of TECHNOLOGY, FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
15:00-15:15	Corrosion of a Structural Steel immersed in Kaolinite	949	Miloud BAGHDAD(SAADI Med Said) LMESM LABORATORY, USTO UNIVERSITY, ALGERIA
15:15-15:30	Valorization of aluminum industry waste for use in grinding of optical glass	992	Farouk BENALI LMNM, Institute of Optics and Precision Mechanics, FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
15:30-15:45	The effect of mechanical activation on the reaction between natural phosphate and aluminum powder	1084	Afaf MOKHTARI MOHAMED BOUDIAF UNIVERSITY of M'SILA, ALGERIA
15:45-16:00	Comparison study between K-geopolymer and (Na, K)-geopolymer based on calcined clay from Tamazert	1098	Karima BOUGUERMOUH ABDERRAHMANE MIRA UNIVERSITY of BEJAIA, ALGERIA
16:15-16:30	COFFEE BREAK		
16:30-16:45	Experimental analysis of Mechanical behavior in bending of composites sandwich structures	700	AHCENE OUBOUZID Institute of Optics and Precision Mechanics,

	Aluminum-Aramid Fibers.		FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
16:45-17:00	Optical Transmission Improvement of Eroded Glass: Effects of the Projection's Speed and the Deposited Thin Layers of SiO ₂	859	Abdelhak MAROUANI FACULTY of TECHNOLOGY, FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
17:15-17:30	Porous and/or functionalized MCM-41 by DEHPA for solid phase extraction of lithium from chloride medium	1237	Salim MEKKI LABORATORY of CHEMISTRY of MATERIALS AHMED BENBELLA UNIVERSITY of ORAN1, ALGERIA
17:30-17:45	Disorder effect on optical properties of chiral structures, single crystal X-ray diffraction and DFT calculations	1298	Louiza OUKSEL FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
17:45-18:00	Chemical finishing of optical materials	1350	Brahim AOUNALLAH Institute of Optics and Precision Mechanics, FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
18:00-18:30	CLOSING CEREMONY		

ROOM 2

12 SEPTEMBRE 2018

Room2

Room2:	TOPIC8: Computational Materials Science	Session Chair Prof. Abdelmadjid BOUHEMADOU	
Time	Title	Abs.ID	Presenter, Affiliation
10:00-10:15	Pressure effect on the structural, electronic and magnetic properties of the CoX'MnSi (X' = Ru, Rh) Heusler alloys	604	Nacir GUECHI YAHIA FARES UNIVERSITY OF MEDEA, ALGERIA
10:30-10:45	Numerical study for estimating time-dependent reliability of a corroding pipe to flange weld joint over its lifetime	639	NAHAL MOURAD MOHAMED CHERIF MESSAADIA UNIVERSITY OF SOUK AHRAS, ALGERIA
10:45-11:00	Ab initio calculation of fundamental properties of CaxMg1-xA (A = Se and Te) alloys in the rock-salt structure	797	Med Amine GUEBOULI MOHAMED EL BACHIR EL IBRAHIMI UNIVERSITY OF BORDJ BOUARRERIDJ, ALGERIA
11:00-11:15	Structural, electronic and magnetic properties of Crx-1BaxP alloy (with x=0, 0.25, 0.5, 0.75, 1)	908	Asmaa BOUABCA Condensed Matter and Sustainable Development Laboratory(LMCDD), ALGERIA
11:15-11:30	Structural stability and electronic properties of silver halides (Ag-VII) ternaries and superlattices	952	Rabia BELACEL Magnetic Materials Laboratory, DJILALI LIABES UNIVERSITY OF SIDI BELABBES, ALGERIA
11:30-11:45	Hydrogen Storage via Sodium Boro hydride	980	Torkia GHELLAB MOHAMED BOUDIAF UNIVERSITY OF M'SILA, ALGERIA
11:45-12:00	The electronic structure of the hydrides	1026	Zoulikha CHARIFI MOHAMED BOUDIAF UNIVERSITY OF M'SILA, ALGERIA
12:00-14:00	LUNCH BREAK		
14:00-14:15	New copolymer involving poly(9-vinylcarbazole) and Poly(9,9-dioctylfluorene-alt-benzothiadiazole)	1214	Mohamed MBAREK Faculty of Sciences of GAFSA, Research Unit(UR11ES55) Faculty

	(F8BT)for optoelectronic devices: Synthesis, characterization and modeling		of Sciences of MONASTIR, TUNISIA
14:15-14:30	DC/RF performance of AlGaN/GaN underlap MOS-HEMT	1202	Zitouni MESSAI MOHAMED EL BACHIR EL IBRAHIMI UNIVERSITY of BORDJ BOUARRERIDJ, ALGERIA
14:30-14:45	Proton-Proton collision simulation in probing radiative neutrino mass models at high energy colliders LHC	1369	Dounia CHERIGUI MOHAMED BOUDIAF SCIENCE and TECHNOLOGY UNIVERSITY of ORAN, ALGERIA
14:45-15:00	Optical and Nonlinear Optical Properties of $Ln(Tp)_2$ where $Ln= La, \dots, Lu$, and $Tp= tris$ (pyrazolyl) borate: aDFT+TD-DFT Study	1423	Ahlem KHEIREDDINE FACULTY of SCIENCES, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
15:00-15:15	Mechanical and thermodynamic properties of Zr-Fe: First Principle investigation	613	Farouk MEBTOUCHE M'Hamed BOUGARA Boumerdes University
15:00-15:15	Characterization of ferrite material's using microstrip ring resonators in microwave frequency bands	1113	Amel TANTO FACULTY of TECHNOLOGY, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA

12 SEPTEMBER 2018 Room2

Room2	TOPIC3: Magnetic Materials	Session Chair Prof. Ahmed KHARMOUCHE	
15:15-15:30	Thickness effect on the physical properties of $Co_{0.9}Pd_{0.1}$ thin films	684	Ahlem BOUREZG LESIMS LABORATORY, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
15:30-15:45	Modeling of the Magnetic Properties of Materials	765	Kamel Idris BEY YAHIA FARES UNIVERSITY OF MEDEA, ALGERIA
15:45-16:00	Magnetic and Structural Properties of Co_xFe_{100-x} Thin Films Thermally Evaporated onto Glass substrate	853	Ahlem MELLOUL LESIMS LABORATORY, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
16:00-16:15	PERMEABILITY TENSOR OF M-TYPE HEXAGONAL FERRITE FILMS	946	Zohra ZERROUGUI LESIMS LABORATORY, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
16:00-16:20	COFFEE BREAK		
16:20-18:00	VISIT TO RESEARCH UNIT AND LABORATORIES OF SETIF1 FERHAT ABBAS UNIVERSITY		

13 SEPTEMBER 2018 MORNING ROOM2

ROOM2	TOPIC7: Functional Materials	Session Chair Prof. Nouredine BOUAOUADJA	
Time	Title	Abs.ID	Presenter, Affiliation
10:00-10:15	An economic process to fabricate resistant anorthite using kaolin and calcite: CaF_2 addition effect on sintering and mechanical properties.	1425	Soumia ZAIYOU Faculty of Natural and Life Sciences, FERHAT ABBAS SETIF1 UNIVERSITY, Ceramics Lab., MENTOURI UNIVERSITY of CONSTANTINE, ALGERIA
10:15-10:30	Improvement mechanical properties by exposure to hot isostatic pressing of $\alpha-Al_2O_3$	1428	Bouزيد HANNACHI ABBAS LAGHROUR

	ceramics at different times for total hip arthroplasty (THA)		UNIVERSITY of KHENCHELA, ALGERIA
10:30-10:45	Elaboration of a cellular glass	1482	Houda MECHEKEF Institute of Optics and Precision Mechanics, FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
10:45-11:00	Functionalized Activated Carbon by Ionic Liquids, A Structure, Spectroscopic and Thermal study	1504	Haddad BOUMEDIENE MOULAY TAHAR UNIVERSITY of SAIDA, ALGERIA LCMT, ENSICAEN, UMR 6507, CNRS, UNIVERSITY of CAEN, FRANCE
11:00-11:15	Wave propagation investigation of thick P-FGM plates using A Novel four variables refined plate theory	1515	<i>Ahmed BOUKHARI</i> Material and Hydrology Laboratory, DJILALI LIABES UNIVERSITY of SIDI BELABBES, ALGERIA

13 SEPTEMBER 2018 MORNING ROOM2

Room2	TOPIC2: Soft Condensed Matter	Session Chair Prof. Abdelkader BOURZAMI	
Time	Title	Abs.ID	Presenter, Affiliation
11:15-11:30	Structural phases of a flexible polymer chain in the presence of internal adhesive contacts	693	Mounira BOUARKAT EPSTO, ORAN, ALGERIA
11:30-11:45	Breakdown of the electron-spin motion upon reflection at metal-organic or metal-carbon interfaces	721	Fatma Zohra DJEGHLOUL FACULTY of TECHNOLOGY, FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
11:45-12:00	Simulation of Ruthenium metal production by Technetium transmutation in high flux reactors	1456	Naima AMRANI LDACHR, FERHAT ABBAS SETIFI UNIVERSITY, ALGERIA
12:00-12:15	Magnetism of nanoparticles CoPt ₃ : elaboration and characterization: NON-AQUEOUS SOL-GEL ROUTES TO MAGNETIC MATERIALS?	1506	Mohamed KARMAOUI MOHAMED BOUDIAF SCIENCE and TECHNOLOGY UNIVERSITY of ORAN, ALGERIA
12:30-14:00	LUNCH BREAK		

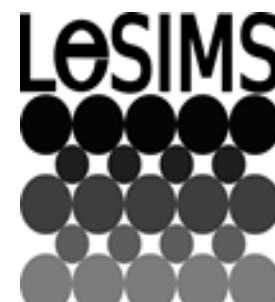
13 SEPTEMBER 2018 AFTERNOON ROOM2

Room2	TOPIC5: Optoelectronic Materials	Session Chair Prof. Azeddine CHELOUCHE	
14:00-14:15	Milling effect on the photo-activated properties of TiO ₂ Nanoparticles: electronic and structural investigations	879	Youcef MESSAI LESIMS LABORATORY, BADJI MOKHTAR UNIVERSITY of ANNABA, ALGERIA
14:15-14:30	Improvement of the opto-electrical properties of ZnO/Al/ZnO structures by the low Al doping of the ZnO layers	918	Saad AMARA Research Unit in Optics and Photonics, Center for Development of Advanced Technologies CDTA, ALGERIA
14:30-14:45	Study of light transmission by PDMS microlens fabricated using chemical etching	1190	Nadjiba BOULAICHE LOA, Institute of Optics and Precision Mechanics,

			FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
14:45-15:00	Photonic Crystal Based Bio-Sensor for Detection Cancer Cell	1220	Rami ZEGADI FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
16:15-16:30	COFFEE BREAK		
18:00-18:30	CLOSING CEREMONY		

13 SEPTEMBER 2018 AFTERNOON ROOM2

Room2	TOPIC6: Nanomaterials	Session Chair Prof. Abdelkrim ROUMILI	
Time	Title	Abs.ID	Presenter, Affiliation
15:00-15:15	New approach synthesis of green nanocomposite, polymer/algerian clay	1186	Sara HAOUE AHMED BENBELLA UNIVERSITY of ORAN1, ALGERIA
15:15-15:30	Effect of Hygrothermal aging on Morphology and Thermo-Mechanical Properties of PHBV/ Cloisite 30B Bionanocomposites	1182	Kahina IGGUI LMPA LABORATORY, UNIVERSITY of BEJAIA, TECHNOLOGICAL INSTITUTE of BOUIRA UNIVERSITY, ALGERIA
15:30-15:45	Polarized Second Harmonic Response from Gold Nanocylinders	602	Ferhat KESSI ABDERRAHMANE MIRA UNIVERSITY of BEJAIA, ALGERIA
15:45-16:00	N-MWNT@MWNT Nanohybrid Synthesis using CCVD Technique	1440	Ouanassa GUELLATI BM Annaba University
16:00-16:15	COFFEE BREAK		
16:15-16:30	Application of multiwall carbon nanotubes in waste water treatment	972	Assia NAIT MERZOUG MOHAMED CHERIF MESSAADIA UNIVERSITY of SOUK AHRAS, ALGERIA
16:30-16:45	Bottom-up process for elaboration of ZnOnanoparticules and photocatalytic applications	895	Abdelghafour Said MESSALTI EMERGING MATERIALS RESEARCH UNIT, FERHAT ABBAS SETIF1 UNIVERSITY, ALGERIA
18:00-18:30	CLOSING CEREMONY		



Poster Presentations

12 September 10h-12h Topic 3

TOPIC3 : Magnetic Materials		Session Chair Prof. Ahmed KHARMOUCHE	
Board ID	Title	Abs. ID	Presenter, Affiliation
1	Study of the corrosion of neodymium-iron-boron magnets at different solution	710	Imene SOAL U.S.T.H.B
2	Semiconductor For Application in The Field of Spintronics.	868	Ouafa HAMIDANE 8 May 1945 Guelma University
3	The elaboration of nanoparticle composite magnetite multi-walled carbon nanotubes as catalyst	956	Zehoua REHIMI 20 August 1955 Skikda University
4	Structural and magnetic properties of Fe/Si (100) thin films	1032	Ilhem BENSEHIL MB Msila University
5	Comparative study on adsorption of methylene blue by KDD3-Fe ₃ O ₄ magnetic composite and KDD3 purified clay	1047	Asma HAYOUNE 20 August 1955 Skikda University
6	Structural, electric and magnetic properties of evaporated Ni/Co thin films on Si (111) substrate	1092	Mounir REFFAS FASetif1 University
7	Effect of the Boron Content on the Amorphization Process and Magnetic Properties of the Mechanically Alloyed Fe _{92-x} Nb ₈ B _x Powders	1134	Thaounza CHABI BM Annaba University
8	Modeling of Electromagnetic Shielding Effectiveness of Novel Multilayer arrangement of conductive Composites layers in the far Field	1140	Tahar MERIZGUI AT Laghouat University
9	Structural and magnetic properties of Co/SiO ₂ nanocomposites	1275	Nihad DOUAS MB Constantine University
10	Structural, Electronic and Magnetics Properties of EuMnPF	1287	Yasmina AZOUZ 8 May 1945 Guelma University
11	Structural and Magnetic Properties of evaporated Fe _x Pd _{1-x} Thin Films on Si(111) substrates	1444	Ahlam BENHAMOUD FASetif1 University

12 September 10h-12h Topic 4

TOPIC4: Semiconductors Materials		Session Chair Prof. Nouredine BENOUETTAS	
BoardID	Title	Abs. ID	Presenter, Affiliation
1	Effect of anti-reflective films on the characteristics of CdS/SnS solar cells	669	Zaidi BEDDIAF HL Batna1 University
2	Synthesis of FeTiO ₃ /rGO composites for remediation of Methylene bleu: kinetics study under different artificial visible light intensity	823	Mohamed Khalil GUEDIRI FASetif1 University
3	The use of a piezoelectric material in the treatment of liquid discharges	843	Saliha BOURANENE MCM Souk Ahras University
4	Numerical simulation study of current-voltage characteristics of a Molybdenum/4H-SiC Schottky diode containing barrier inhomogeneities using SILVACO-TCAD	890	Kamal ZEGHDAR MK Biskra University
5	Vibrational and thermodynamic properties of copper halides CuCl, CuBr and their ternary alloys CuCl _{1-x} Br _x in B3(ZnS) and B1(NaCl)	962	Souhir FNIDES 8 May 1945 Guelma University

6	Spin-orbit effect on the electronic structure of MoSe ₂ /WSe ₂ heterobilayer	964	Foudil ZAABAR AM Bejaia University
7	Preparation and characterization of thin layers of chalcogenide (CdS, CuxS) prepared by chemical bath technique	965	Halima CHERIET Physics Dpt, Algeria
8	The temperature effect on electrical parameters of CIGS thin films grown by CSVT	969	Nora OULMI FASetif1 University
9	Structural stability and electronic properties of silver halides (Ag-VII) ternaries and superlattices	995	Rabia BELACEL DL Belabbes University
10	Photoelectrochemical study of PbO doped with Sn	1005	Toufik DILMI AM Bejaia University
11	VARIATION OF EFFECTIVE PERMITTIVITY AS A FUNCTION OF FREQUENCY CONCENTRATION IN AIR MAKES AND FOR A	1178	Amina REZIOUK BM Constantine University
12	Modeling of Surrounding Gate MOSFETs with Interface trapped charges	1257	Fairoz LAGRAF LB O.Bouaghi University
13	Effect of the laser wavelength on the light current in the Optically-Gated CNTFET	1258	Hana LAOUAR AL Khenchela University
14	Elaboration and structural study of Ag ₂ S-TiO ₂ nanocomposites	1285	Houda TEBANI MB Constantine University
15	Structural and optical properties of SnS thin films deposited by spray pyrolysis method	1338	Meriem MESSAOUDI CRTI, Cheraga, Algiers
16	Study of the CISE absorbent layer deposited by Spray pyrolysis on glass and stainless steel 316 substrates	1344	Bachir MESSAID MB Boumerdes University

12 September 10h-12h Topic 7

TOPIC7: Functional Materials			Session Chair Prof. Noureddine BOUAOUADJA
Board ID	Title	Abs.ID	Presenter, Affiliation
1	Simulation of coated soda lime glass erosion	606	Kenza AZIL FASetif1 University
2	Computational modelling of pipeline repaired with composite materials	619	Achour AIDA ABMostaganem University
3	The effects of boehmite addition on the reaction-sintering of hydroxyapatite and alumina composites	661	Samira DJOUALLAH FASetif1 University
4	The form of the balancing coefficients of the surfaces mixture model for an ellipsoid indenter	735	Aissa BOUDILMI MBM'Sila University
5	Damage mechanisms under tension shear loading in friction stir spot welding of Aluminium alloy and Galvanized Steel	762	Hichem MEKRI DL SBelabbes University
6	Buckling analyses of functionally graded material plate under mechanical loading	810	Fouad BENLAHCENE Amine Elokka El Hadj Moussa Eg Akhamouk Tamanrasset University Center
7	Bio-sourced composites made from Eucalyptus tannins	829	Majda AMARI PMS ALGERIA
8	Mechanical characterization of Thermoplastic elastomer blends based on natural rubber and low-density polyethylene	905	M'hammed SAHRAOUI FASetif1 University
9	Physicochemical properties of oak acorn starch physically modified by heat moisture treatment (HMT)	1013	Mounira BOUKHEKHAL YF Medea University
10	EFFECT OF GLUCOSE ON ELECTROCHEMICAL BEHAVIOR OF COBALT CHROMIUM ALLOY ELABORATED BY POWDER METALLURGY TECHNIQUE	1014	Boualem RAI AM Bejaia University
11	Functional hybrid materials based on pillared clay/biopolymers: Synthesis, characterizations and environmental applications	1015	Leila CHABANE SD Blida 1 University
12	Dynamic Mechanical Properties Of Thermoplastic Elastomers From Blends Of Natural Rubber /Polypropylene Compatibilized By (ENR25 / PP-g-MA)	1022	Abderrahmane BELHAOUES FASetif1 University
13	Roughness influence on the adhesive power of optical glasses.	1096	Asma ABCHI FASetif1 University
14	The effect of Sb ₂ O ₃ content on the microstructure and electrical properties of (Mn ₂ O ₃ , V ₂ O ₃)/ZnO varistor materials	1120	Faïçal KHARCHOUCHE FASetif1 University
15	FTIR, XRD and SEM investigations of phase evolution in mixtures of kaolin and	1128	Toufik SAHRAOUI

	aluminum		FASetif1 University
16	Mechanical properties of Co-Ag coatings prepared by electrodeposition	1131	Ouarda KIRATI 8 May 1945 Guelma University
17	Free vibration analysis of sandwich beams with viscoelastic core	1132	Youcef KHADRI Yacine KARMI BM Annaba University
18	Synthesis and Characterization of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ (CCTO) Powders and Ceramics by Solid State Reaction	1173	Rabah DJAFAR MB Boumerdes University
19	Synthesis and Structural characterization of tin Gadolinium Pyrochlore $\text{Gd}_{2-x}\text{Sr}_x\text{Sn}_2\text{O}_{7-\square}$ ($0 \leq x \leq 0.5$) solid-oxide fuel cells (SOFC)	1232	Fatima MELIT MSB Jijel University
20	Numerical simulation for dielectric permittivity of a composite (Resin-Titanate-Carbon Black) in X band	1250	Amina BOUNAR FASetif1 University
21	Microstructural and Mechanical Properties of WC-Co Alloy Obtained by Sintering	1263	Abdelyamine BOUKHOBZA Nour El Bachir El Bayadh University Center
22	Reaction sintering of natural hydroxyapatite and aluminium slag	1343	Djelel KHERIFI FASetif1 University
23	Kinetic parameters of γ - $\text{Mg}_{17}\text{Al}_{12}$ phase dissolution from AZ91 Alloy	1357	Amar DJEMLI FASetif1 University
24	Synthesis, characterization of a metal organic framework:MIL-53 (Fe) and adsorption mechanisms of methylene blue dye onto MIL-53 (Fe) from aqueous solutions	1359	Zohra MEDJDOUBI (Salim MEKKI) AB Oran1 University
25	Study effect of surface topography on the wear rate of a Co-Cr-W biomaterial developed by powder metallurgy	1363	Mourad ANCER USTHB
26	Activated carbon - polyurethane foam composite for oil spill cleanup	1445	Malika MEDJAHDI DL SBelabbes University
27	Effect of the Zircon and ZnO on the physical-chemical properties of opaque glazes for ceramic sanitary-ware	1457	Kamel BOUDEGHDEGH MSB Jijel University
28	Contribution to the improvement of the quality of continuous casting steels at Sider El-Hadjjar - Annaba	1460	Katib HAMLAOUI CRTI, Cheraga

12 September 14h-16h Topic 2

	TOPIC2: Soft Condensed Matter		Session Chair Prof. Abdelkader BOURZAMI
Board ID	Title	Abs. ID	Presenter, Affiliation
1	Effect of polymer topology on the dynamics behavior of polymer melts	744	Chahrazed MEDDAH USTO MB Oran University
2	Influence of thickness on the photocatalytic activity, structural and optical properties of TiO_2 thin films	774	Aicha DOULA MB Constantine University
3	Modeling and optimization of piezoelectric energy harvesting system	973	Hamza KHEMLICHE CRTI, Cheraga
4	Yttrium iron garnet ferrites (YIG) magnetic photonic crystal fiber infiltrated with Fe_3O_4 magnetic fluid	1071	Khadidja SAKER MB Constantine University
5	Elastic properties of ikaite and their pressure dependence: a DFT corrected Van der Waals study	1333	Ghiles Chahi AM Bejaia University
6	Synthesis and Characterization of Special Optronic Glasses	643	Mostepha IEZID MB Batna2 University
7	Study of Al-doped ZnO thin films by spray pyrolysis . Dopage effect	1449	Halima HABIED MA National Polytechnic School of Oran

12 September 14h-16h Topic 6

	TOPIC6: Nanomaterials		Session Chair Prof. Abdelkrim ROUMILI
Board ID	Title	Abs.ID	Presenter, Affiliation
1	Nanohybrid materials based on the graphene oxide functionalized covalently and decorated by the silver nanoparticles	623	Lhadi OTMANI FASetif1 University
2	MECHANICAL AND PHYSICAL STUDY ON THE AGING OF A POLYMER RESIN IN AN ORGANIC SOLVENT	630	Latifa ALIMI BM Annaba University
3	The role of seed layer thickness on ZnO nanowires deposited by electrochemical method	688	Sara BOUZERARA FASetif1 University
4	Synthesis and characterisation of Zn/Al layer double hydroxide materials and their application in organic pollutant removal	723	Farid AOUDJIT MB Boumerdes University
5	Ab initio DFT study of the properties of the Gen+1 and GaGen nanomaterials	726	Chaouki SIOUANI AM Bejaia University
6	Elaboration and study mechanics of a Gibbsite Li(OH)3 Hybrid Material	788	NHa BELKHAM FASetif1 University
7	Effect of TiO2 nanoparticles on the mechanical Properties of Low- Density Polyethylene (LDPE)	812	Fadel Khatir Ahlem FASetif1 University.
8	Annealing of pigmented low density polyethylene with titanium dioxide nanoparticles and its Influence on mechanical and thermal Properties	845	Fadel Khatir Ahlem FASetif1 University
9	Bottom-up process for elaboration of ZnO nanoparticles and photocatalytic applications	895	Abdelghafour Said MESSALTI FASetif1 University
10	Synthesis, Characterization and Crystal Structure of a New Schiff Base Ligand and Hydrolytic Cleavage of the Imine Bond Induced by a Copper(II) Cation	902	Kamel MOKHNACHE FASetif1 University
11	Structural and optical properties studies of pure and Al-doped ZnO aerogel elaborated in supercritical drying conditions of isopropanol	920	Fatah MOUZAIA AM Bejaia University
12	Simultaneous complete phononic and photonic band gaps in periodic structures	929	Fahima ARAB URPO-CDTA, FASetif1 University
13	Structural study of amorphous silicon nitride matrix containing silicon nanocrystals	938	Nadjet HAFSI MSB Jijel University
14	Crystallization kinetics of α -cordierite ceramic from MgO–Al ₂ O ₃ –SiO ₂ –TiO ₂ glasses using DTA analysis	941	Smail LAMARA MB M'sila University.
15	Sodium effect on the hydroxyapatite synthesis by the sol-gel route	943	Malika MERZOUGUI MB M'sila University
16	Effect of Ag doping on the physical properties of TiO2 nanopowders prepared by sol-gel	1000	Sara ABBAD LB O.Bouaghi University
17	PREPARATION AND SYNTHESIS OF A HYBRID BASED ON GRAPHENE OXIDE	1012	Samir BOUHAREB FASetif1 University
18	Dielectric Relaxation study of ionic liquid-montmorillonite nanocomposite. Effect of anion.	1016	Mohamed BELHOCINE BK Tiaret University
19	Study of the wear of alumina pellets developed for the optical glass grinding	1035	Ikram KHELLAF FASetif1 University.
20	Study and characterization of intercalated hydrothermal kaolinite	1068	Naouel HEZIL AL Khenchela University
21	The Estimation of the Hydrophobicity of Kaolinite by Adsorption of Surfactants	1073	Naouel HEZIL AL Khenchela University
22	Kinetic parameters of crystalline phase prepared in raw kaolin/20 MgO obtained via melt cooling	1083	Djaida Redaoui MB M'sila University
23	Effect of calcination temperature on wear resistance of nanosized alumina alpha for biomedical applications	1091	Mamoun FELLAH AL Khenchela University.
24	Microstructural and structural study of the ball-milled Ni ₈₀ Cr ₂₀ alloy	1119	Anfal KADDOUR BM Annaba University
25	Characterization of MgAl ₂ O ₄ Spinel nano-powder	1123	Khadidja HOGGAS FASetif1 University.
26	The Effects of Concentration, Size, and Orientation on the Hardness of Nanoparticles in material.	1125	Djihed REZZIG FASetif1 University
27	Formation of metastable solid solution in Al-C system using Mechanical alloying	1141	Meriem BENDOUMIA USTHB
28	Preparation and Characterization of biodegradable polymeric microparticles loaded by metformine	1156	Sihem BOURICHE AM Bejaia University
29	The effect of molybdenum content on structural, mechanical and tribological properties of HIPed β - type titanium alloys for orthopedic applications	1160	Khaled TOUALBIA BM Annaba University
30	Synthesis of bioceramic HAP from natural products	1161	Salim BRAHIMI MB Boumerdes University

31	Effect of Kr-implantation on the nano-bubbles formation in SiO ₂	1164	Abdelkrim NAAS ZA Djelfa University
32	Correlation between the structural and optical properties of KCl:CuO single crystal	1191	Samiya ADDALA MO Bouira University
33	Effect of Nb at.% content on friction on tribological behaviour of nanobiomaterials Ti-Nb alloys .	1205	Ziad DJAFIA BM Annaba University.
34	Study of thermal and dielectric properties of LDPE/Al ₂ O ₃ Nanocomposites	1207	Mallem Keltoum Oum Keltoum FASetif1 University
35	Solid base catalysed 5-HMF oxidation to 2,5-FDCA over Au/hydroxalcalites	1231	Meriem BANOU FASetif1 University
36	The synthesis and characterization of Mg-Al and CE-Doped hydroxalcalites -supported gold nanoparticles for catalytic application	1233	Meriem BANOU FASetif1 University
37	Design and analysis of a nano-phonic structure for different solid materials based on 2D photonic crystal ring resonator	1240	Mehdi GHOUMAZI MB M'sila University
38	Study of a filter for refractive index sensing	1260	Chayma MOSBAH BM Constantine University
39	Preparation and characterisation of nanoparticles of modified Biopolymers	1269	Nadjia HAMIDI YF Medea University
40	Characterisation of poly (lactic acid) /polycarbonate blends and nanocomposites after the reactions transesterification with samarium acetylacetonate	1303	Nadjet CHELGHOU FASetif1 University
41	Green synthesis of Ag-Cu alloy nanoparticles using Rosmarinus officinalis plant extract and its antibacterial activity.	1340	Dyhia AIT ABDESSELAM AM Bejaia University
42	Relationship between zeta potential measurement and the aggregation of micro and nano materials.	1346	Farouq Abbas FASetif1 University
43	Effects of the charge rate and of the accounting agent on the rheological and thermal properties of composites based on the low density polyethylene matrix	1349	Naziha Dalel ZERDOUMI FASetif1 University.
44	Elaboration and Characterization of Nanopowders and Thin films	1421	Tarek Diab Tarek Ounis LB O.Bouaghi University
45	Electrochemical Measurements of PANI Nanofibers	1458	Fahima DJEFAFLIA BM Annaba University
46	Free vibration analysis of carbon nanotube-reinforced composite plates resting in elastic foundation	1518	Ahmed BAKOURA DL SBelabbes University

12 September 16h-18h Topic 1

TOPIC1: Materials and thin films synthesis, characterizations and applications		Session Chair Prof. Amor AZIZI, Kamel OUARI, Amar MOSBAH	
1	Low-Temperature Electrodeposition of ZnO Nanostructured Thin Films	1020	Rania KARA FA Setif1 University, CB Taref University
2	Photoacoustic Spectroscopy Analysis of Xenon Implanted CuInSe ₂	1023	Abderrezzak KESMIA FASetif1 University
3	Corrosion inhibition of carbon steel in 1M HCl solution by <i>Lamium Flexuosum Ten</i> extract	1024	Hiba MAHFOUD LB O.Bouaghi University
4	Development of a novel inorganic material and its adsorption performances for pharmaceutical micropollutants in wastewater: Equilibrium and kinetics studies	1041	Rima GHEMIT FASetif1 University
5	PREPARATION AND CHARACTERIZATION OF NANOCOMPOSITE MEMBRANES BASED ON TITANIUM DIOXIDES	1043	Affaf TABBICHE USTO-MBOran1 University
6	Preparation and characterization of PbO ₂ and SnO ₂ electrodes and its effect on degradation azo Dye Wastewater	1045	Keltoum ZAIM FASetif1 University
7	Environmental properties of composites based on polypropylene/poly(lactic acid) blend and copper modified nanoclay	1053	Farida BOUZIDI FASetif1 University
8	Microstructure and physical properties of nanocrystalline Cu ₂ O thin films prepared by electrodeposition	1055	Ibrahim Yaacoub BOUDERBALA FASetif1 University
9	Alginate modified montmorillonite as emerging porous microspheres for drug carrier	1061	Rima GHEMIT FASetif1 University
10	Effect of Deposition Parameter on ZnO Thin Films Prepared by Dip-coating Method and Their Photocatalytic Activity	1079	Mahdia TOUBANE MB Boumerdes University
11	Synthesis of New Materials for Use As Organic Active Layers Characterization Spectroscopy and Cyclic Voltammetry of Z(2-phényl-3-(3,4-éthylènedioxythièn-2-yl)- acrylonitrile	1087	Salima MOSBAH MB Constantine University
12	Physical and Tribological Properties of RF Sputtered Chromium Aluminum Nitrides Coatings	1090	Mamoun FELLAH AL Khenchela University

13	The influence of glycine on the formation of calcium carbonate polymorphs	1099	Louiza ABIDI AM Bejaia University
14	MONONUCLEAR Ni (II) COMPLEX AS ANTIBACTERIAL AGENT: SYNTHESIS, CHARACTERISATION, AND ANTIMICROBIAL STUDY	1102	Hana Amira GUADOURI FASetif1 University
15	Nanocomposites: preparation, characterization and application in the field of water treatment	1114	Amina AICHOOR FASetif1 University
16	Mechanical characterization of Ni-Co alloy coatings electrodeposited at different bath temperatures	1117	Mohamed HAMIDOUCHE FASetif1 University
17	Synthesis, spectral characterization and biological studies of new material	1130	Wafa BENABID FASetif1 University
18	Comparison of two blowing agents for rigid polyurethane foams	1144	Zahir BAKIRI FASetif1 University
19	Sol-gel synthesis, characterization and application of pyrochlor-type solid solutions $Bi_{1-x}Pb_xSb_{1.5}CuO_{7.8}$ et $Bi_{1.5}Sb_{1.5}Cu_{1-x}M_xO_{7.8}$ (with M = Zn, Mn)	1145	Imen KADI ALLAH USTO-MB Oran1 University
20	INVESTIGATION OF MULTILAYER THERMAL BARRIER COATINGS Y2O3-STABILIZED ZRO2 AND NI-CR-AL-Y MADE BY APS AND HV OF THERMAL SPRAYING	1148	Lounes BELAID U.S.T.H.B
21	Synthesis of new bio-actives molecules. Study of their photophysical properties	1153	Dalila TAHARI USTO-MB Oran1 University
22	Synthesis and characterizations of $CH_3NH_3PbI_3$ Perovskite thin films for solar cells applications	1155	Sana HARIECH MB Constantine University
23	Study of crystallization of $ZnO-Al_2O_3-SiO_2$ glass containing B_2O_3	1167	Amina GRABSI FASetif1 University
24	COMPARATIVE STUDY OF THE ADSORPTION OF FATTY ACIDS ON THE MINERAL SURFACES OF CALCITE AND QUARTZ	1168	Belkacem BENAÏSSA LB O.Bouaghi University
25	Annealing effect on the structural and optical properties of Fe-doped WO_3 thin films	1184	Elaid OUADAH MA ENP Oran
26	Investigation on subsurface damage and surface roughness in brittle materials	1194	Fouad LAKHDARI UROF, CDTA, FASetif1 University
27	Thickness dependence of structural, electrical, and optical properties of In_2O_3 films	1198	Mouna GHEMID U.S.T.H.B
28	Galvanostatic electrodeposition thin film of nickel with TiO_2 nanoparticles on copper substrate from nickel sulfate bath	1200	Khadija BERARMA MB Msila University
29	Incorporation of sol gel prepared silica in thin film composite nano filtration membrane	1203	Yassine BERBAR U.S.T.H.B
30	Elaboration and characterization of thin films of Cu on a silicon substrate prepared by electrodeposition process	1208	Abderrazek KHIREDDINE FASetif1 University
31	Characterization of Silicon Surfaces Implanted with Arsenic Ions	1209	Hamza SERRAR E.N.S.B. Constantine
32	Effect of deformation on the structural and mechanical properties of drawn copper wires	1211	Fayçal BAIRA MB Batna2 University
33	New polymer-metal composite materials poly[4-(pyrrol-1-methyl) benzoic acid] film-cobalt (0)	1235	Nesrine HAKIMI FASetif1 University
34	New material type carbon nano-spheres, preparation and characterization	1239	Amel Boudjemaa CRAPC, Bousmail, ALGERIA
35	Ag/Na ion-exchange effect on the optical and mechanical properties of soda-lime silicate glass	1244	Ismaïhen OSMANI FASetif1 University
36	Annealing temperature effect on structural and optical properties of Nickel oxide thin films	1251	Amel HAICHOOR MA ENP Oran
37	Photo electrochemical Characterization of (P3T+6T) Composite Film Doped with TiO_2 Nanoparticles	1261	Leila HASNIOU CRAPC, Bousmail, ALGERIA
38	Study of the annealing effect on the structural and optical properties of Bi_2O_3 thin films	1262	Fatima Zohra BOUHAREB MA ENP Oran
39	Optical and structural properties of Al and Mn co-doped ZnO thin Films Prepared by Sol-Gel method	1270	Hadia AOUNALLAH LB O. Bouaghi University
40	Structural and optical properties of (Sn, Mn) co-doped ZnO thin films by spray pyrolysis	1280	SALIM KARIM DL SBelabbes University
41	The Atmosphere Annealing Effect on the Properties of Electrodeposited $CuInSe_2$ Thin Films	1286	Nassima Boukerzaza MB Constantine University
42	Effect of a thin iron film as an interlayer on the formation of nickel silicides	1289	Ahlem KOLLI FASetif1 University
43	Quantitative analysis of high chromium cast irons by the Rietveld method	1290	Fatma Zohra BOULASSEL MSBY Jijel University
44	Preparation and characterization of the $Zn(O,S)$ thin film buffer layer for $Cu(In, Ga)Se_2$	1294	Hanane HOUADSI

	solar cells		LB O.Bouaghi University
45	Electrodeposition of In ₂ Se ₃ thin film from citrate electrolyte. Structural, morphological and optical studies	1307	Oualid DILMI FASetifl University
46	Effect of heat treatment on FTIR and Raman spectroscopy of Tin oxide thin films	1314	Halima OULDARAB DB Khemis Miliana Universty
47	Electrodeposition behavior of nickel–zinc alloys from citrate bath	1316	Rabah ASSELI FASetifl University
48	Decontamination of a field of military exercises by an electrochemical process	1320	Karima KADA EMP, ALGERIA
49	CZTS Thin Films Synthesis Using One-Step Electrodeposition Process: Structural and Optical characterization	1330	Radia BOUDAIRA MB Constantine University
50	Synthesis, characterization, crystal structure and Hirshfeld surface analysis of new copper complex	1331	Wafa BOUKHEMIS CHEMS Research Unit, ALGERIA
51	Synthesis, characterization of polyaniline and its application for adsorption of salicylic acid	1332	Sousna SAHNOUN UFAS1
52	Effect of Nitrogen rate on the formation and the crystallization of Titanium Nitride layer deposited on MgO Substrate	1337	Bachir Eddine MESSAID MB Boumerdes University
53	Removal by adsorption of phosphate on synthesized and encapsulated Zn-Al-LDH (layered double hydroxide)	1341	Mounira ELHACHMI SD Blida1 University
54	CuO sol-gel thin films for optoelectronic applications: effects of annealing and thickness on physical properties	1351	Chahinez DJIDJELI AM Bejaia University
55	Improvement of the characteristics physico-mechanical and durability of the stabilized earth block: a review	1367	Abdelghani IDDER TM Bechar University
56	PREPARATION AND PROPERTIES OF NiO DOPED COPPERTHIN FILMS PREPARED BY SPRAY PYROLYSIS	1368	Rafia BARIR HL El Oued University, KM Ouargla University

13 SEPTEMBRE 10h-12h Topic 8

TOPIC8: Computational Materials Science		Session Chair Prof. Abdelmadjid BOUHEMADOU	
Board ID	Title	Abs.ID	Presenter, Affiliation
1	Electronic and optical properties of the alkali metal tellurides: First principles study	605	Zohra SOUADIA ALGERIA
2	STRUCTURAL AND THERMDYNAMIC PROPERTIES OF THE ZINTL PHASE KASSn, FIRST PRINCIPLES INVESTIGATION	607	Abla GUECHI FASetifl University
3	First-principles investigation of the structural, electronic and optical properties of Ge-doped MgSiAs ₂	615	Samir CHEDDADI BM Annaba University
4	FIRST-PRINCIPLES STUDY OF THE STRUCTURAL AND DYNAMICAL PROPERTIES OF LITHIUM VANADATE	617	Mohamed KHEDIDJI USTHB
5	MBJ-LDA calculations of electronics properties of nitride based III-V compounds	633	Karima BELKACEM DL SBelabbes University
6	Electronic and optical properties of the alkali metal tellurides: First principles study	634	Souadia Souadia ALGERIA
7	ADSORPTION OF COBALT (II) BY MATERIALS AND MESOPOROUS COALS OF TYPES SBA-15 AND CMI-1	638	Selman BOUMESSAIDIA HL El Oued University
8	Characterization of Nickel Based Metallic Superconducting Materials	655	Yasmına BENMALEM Eletrical Engineering, ALGERIA
9	Insight into Magnetic and Optoelectronic Properties of Sr ₂ CrYO ₆ Double perovskite compound: Half-Metallic and Ferromagnetic Behavior	680	Slimane HAID ABMostaganem University
10	Synthesis, Nonlinear optics properties of new thin films of schiff bases ligands containing o-tolidine	704	Samihā ARROUDJ ALKhenchela University
11	First principles simulation of properties of arsenic doped by transition metal atoms As _{10-n} Mn (n= 0-10, M= Mn, Ni) clusters	740	Sofiane SAFER AM Bejaia University
12	Ab-initio investigation of the Pt-Sn binary system	771	Fatima DZIRI HLBatna1 University
13	First-Principles Study of Structural, elastic and electronic properties of FeMP (M = Ti, Zr, Hf) compounds	777	Amel TANTO FASetifl University
14	Removal of methylene blue dye from aqueous solutions by adsorption using a ziziphus jujuba stones treated with H ₃ PO ₄	779	Abderraouf GUEDIRI FASetifl University
15	Effect of variation of operational parameters on the grapheme deposition	782	Mehdi LAOUFI HB Chlef University
16	AB INITIO CALCULATION OF ELASTIC PROPERTIES OF GaX (X = As, N, P AND Sb)	783	Ithem AGGOUN

	SEMICONDUCTING ALLOYS		HLBatna1 University
17	DFT and TDDFT study of the structure and optical properties fluorene-based monomers	785	Khadija BOUCHEMALLA MBConstantine1 University
18	Electron–phonon interaction in the binary supraconductor Lutetium carbide LuC ₂ via first principle calculation	790	Souad DILMI MB M'sila University
19	Structural and electronic properties of Lithium Niobate from ab initio calculations	794	Moufida BOUKHTOUTA BM Annaba University
20	Electronic and optical properties of the LiZnX (X = P, As and Sb) filled-tetrahedral compounds	803	Djamel ALLALI MB M'sila University
21	Theoretical study of methan activation on the CuRu 25%(100) bimetallic surface	811	Habib KHETTAL FASetif1 University
22	Theoretical study of 1-formyl-3-phenyl-5-aryl-2-pyrazoline derivatives as corrosion inhibitors of steel in acidic medium	814	Ilhem SELATNIA LB OBouaghi University
23	Electrochemical and theoretical insights of a new environmentally organic inhibitor for carbon steel corrosion in acidic media	815	Oday KHAMAYSA LB OBouaghi University
24	Structural, electronic, optical, elastic and thermal properties of La ₂ Ga ₃ N ₃	820	Adel MEDJHED FASetif1 University
25	Elastic and thermodynamic properties of the LiCdX (X = N, P, As and Sb) filled-tetrahedral compounds: An ab initio FP-LAPW study	832	Fares ZERARGA AM Bejaia University
26	Linear and nonlinearopticalproperties of somephosphazenes	833	Hadji DJEBAR ML Saida University
27	First principles calculation of structural, electronic, magnetic and optical properties of Mn-doped GaN in cubic phase	846	Loubna SALIK BEI BBA University
28	First-principles study on the optoelectronic properties of inorganic perovskite RbxCs1-xPbBr3 for solar cell applications	847	Saliha KARFAF 8 May 1945 Guelma University
29	Ab Initio Investigation of Structural, Electronic, and Magnetic Properties of Cr-Doped ZnS and ZnSe in Wurzite Structure	854	Oualid CHEREF DL SBelabbes University
30	First principal DFT study of structural, electronic and magnetic properties of PdGen (n=1-11) clusters	865	Mustapha LASMI AM Bejaia University
31	Structural, vibrational and electronic properties of MoSe ₂ / WSe ₂ van der Waals heterobilayer	867	Fayssal MAHROUCHE AM Bejaia University
32	First principles study of structural, elastic, electronic and optical properties of the nitridomagnesogalltes CaMg ₂ Ga ₃ N ₃	873	Youcef MEDKOUR FASetif1 University
33	High-pressure structural phase transition and the electronic properties of chalcogenoid praseodymium	874	Hakim BAAZIZ MB M'sila University
34	Stability and magnetic properties of Cr-substituted ScN from first principles	880	Fares BENISSAD AM Bejaia University
35	Structural properties Refinement with the Whole Pattern Matching Method	887	Nadjet BENCHIHEUB BEI BBA University
36	Modeling of the effect of the void shape oneffective elasticity modulus of porous materials	889	Kaouther BOURIH MB Batna2 University
37	Structural, Elastic and magnetic properties of L10-XPt [X=Fe, Ni, Cr, Cu, Co, Mn]	942	Fatma SIABDALLAH FASetif1 University
38	Half-Heusler compounds: novel materials for energyapplication	947	Radjaa BENABBOUN DL SBelabbes University
39	Spin-orbit effect on the electronic structure of MoSe ₂ /WSe ₂ heterobilayer	961	Foudil ZAABAR AM Bejaia University
40	Study of Thermodynamic and Electrochemical Degradation of Polymer Electrolyte Membrane Fuel Cell	968	Samia LATRECHE FASetif1 University
41	N Doping Effect on the Structural,Optoelectronic properties of ZnO Using DFT Approach	994	Kheira SAID IK Tiaret University
42	First principal calculations of properties of Cobalt doped Phosphorus clusters CoP _n (n = 1 - 24)	1001	Med Akli ROUMILI AM Bejaia University
43	Investigation of the optical interband transitions of theof Polymorphs RbPbI ₃ and CsPbI ₃ : Implications for Main-Group HalidePerovskite Photovoltaics	1037	Saliha KARFAF 8 May 1945 Guelma University
44	Structural, elastic and electronic properties of CaSrTt (Tt=Si, Ge, Sn and Pb)	1050	Amer SAOUDI FASetif1 University
45	EFFECT OF PRESSURE AND TEMPERATURE ON STRUCTURAL PROPERTIES INDIUM BASED COMPOUNDS InX (X=As, Sb, P)	1052	Mohamed BOUCHAREF DL SBelabbes University
46	Theoretical Study of the Metal Complexation Impact on the Antioxidant Activity of Curcumin and its Derivatives	1054	Nor Elhouda MEDIGUE USTHB
47	Structural, Elastic and Electronic properties of the AlX (X = N, P and As) in the B3 and B1 phases	1056	Abdelhak BEDJAOU FASetif1 University
48	Control and Analysis of Piezoelectric Inertia Friction Actuators	1097	Samia LATRECHE FASetif1 University

49	Ab-initio study of structural, elastic, electronic and magnetic properties of LuR ₃ (R= Ru, Rh, Pd, Pt and Ir)	1106	Sabah SELMANE FASetif1 University
50	Study of the quenching temperature effect on the thermal conductivity of poly (methyl methacrylate) (PMMA) pigmented with titanium dioxide (TiO ₂)	1122	Nassima GHEBRID FASetif1 University
51	Comparison of linear and non-linear method for modeling CO ₂ adsorption over impregnated zeolite (MgO)-NaY	1151	Hadjer BEKHTI USTHB
52	Theoretical study of 1, 3 bis(p-Fluorophényl)-5- Pentyl-1, 3, 5-Triazacyclohexane ligand and their complexes of formula CrCO ₃ (TAC) and Cl ₂ M (TAC): (M= Fe, Ni, Zn)	1216	Saida ABABSA LB OBouaghi University
53	OPTIMIZATION AND MODELING OF SYNTHESIS PARAMETERS OF LANTHANUM TRICHLORIDE USING FULL FACTORIAL DESIGN ANALYSIS	1246	Abdelmalek ZAMOUCHE AM Bejaia University
54	Thermoelectric properties of the BaFAgCh (Ch= S, Se and Te) compounds	1253	Khadidja BOUDIAF FASetif1 University
55	Theoretical properties of semiconductor SnHfO ₃ compound via DFT calculations	1281	Djohar CHENINE AB Mostaganem University
56	Structural, electronic and elastic properties of LaGaO ₃ - cubic	1354	Mokrane SETTI DL SBelabbes University
57	Radical Scavenging Activity of Ascorbic Acid Analogs: Kinetics and Mechanisms	1366	Taki Eddine Ahmed ARDJANI FASetif1 University
58	Monte Carlo Simulation of a GaInSb Based MESFET Transistor	1434	Amine ELOUCHDI AB Tlemcen University CDTA, Algiers
59	Theoretical Study of Oxygen Vacancies Effect on the Spectroscopic Raman and IR Frequencies of SnO ₂	1436	Faiza KHALI BOUAMRA SD Blida1 University
60	Vibrational Frequencies of SnO ₂ (110) Surface: ab-initio calculations	1437	Naima BOUCHELAREM SD Blida1 University
61	Geometries, stabilities, and electronic properties of Tin (n=2-11)	1442	Rachida HAICHOIR AM Bejaia University
62	DFT study of optoelectronic properties of CuGaTe ₂ chalcopyrite compound for functional applications	1447	Radouane MAHDJOUBI BM Annaba University
63	Application of fractal model on the Self-compacting concrete formulation methods	1448	Amina NAIMI USTO MB Oran University
64	Theoretical study of electrical and thermal transport properties of Br doped Co ₄ Sb ₁₂	1450	Zoulikha BENHALIMA MT Mascara University
65	Half metallic properties of the ternary XMnSe ₂ (X =Rb,K, Cs) Chalcogenides compounds	1503	S DIDAOU MB M'sila University

13SEPTEMBRE 14h-16h Topic 5

TOPIC5: Optoelectronic Materials			Session Chair Prof. Azeddine CHELOUCHE
Board ID	Title	Abs.ID	Presenter, Affiliation
1	Simulation of LED using SILVACO TCAD	746	Djelloul AHMID MK Biskra University
2	ZnO thin films for solar cells application	807	Lamia RADJEHI AL Khenchela University
3	Prediction study of structural, optoelectronic and magnetic properties of the cubic Samarium oxide perovskite from first principal calculation	808	Oumelkheir YOUB MS Mostagnem University
4	An optimized photonic crystals sensor based on a selective geometric and optimal fill factor parameters	1004	Fateh LARIOUI MB Constantine University MH Bouira University
5	Electrodeposition of semiconductors for optoelectronic devices: Results on Cu ₂ O thin films	1057	Abdelmadjid HERBADJI FASetif1 University
6	Elaboration, Structural and optical properties of KCl:Y ₂ O ₃ single crystal	1199	Lazhar BOUHDJER MB Constantine University MH Bouira University
7	Fabrication of a microsensors in optical fiber using chemical etching	1247	Amina NEZZAR IOMP, ALGERIA
8	Design and simulation of optical filter based on photonic crystal ring resonator	1292	Khalissa BENDEMAGH FASetif1 University
9	CuO sol-gel thin films for optoelectronic applications: effects of annealing and thickness on physical properties	1310	Chahinez DJIDJELI AM Bejaia University

10	Photonic crystals for Malaria Detection	1415	Sarra BENDIB FASetif1 University
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13 SEPTEMBRE 14h-16h Topic 1

TOPIC1: Materials and thin films synthesis, characterizations and applications			Session Chair Prof. Amor AZIZI, Kamel OUARI, Amar MOSBAH
Board ID	Title	Abs.ID	Presenter, Affiliation
1	Effects of saccharin on the electrodeposition of Ni-Co	595	Salim TEBBAKH FASetif1 University
2	Effects of saccharin additive on proprieties of electrodeposited nanocrystalline Ni-Co alloy coatings	596	Salim TEBBAKH FASetif1 University
3	Elaboration and characterization of composites materials based on Polypropylene/fumed silica nanoparticles: Effect of surface treatment and compatibilizer agent	614	Sofiane LASMI FASetif1 University
4	ELECTROCHIMICAL STUDY OF SELF-ASSEMBLED ORGANIC MONOLAYERS ON A THIN SILVER LAYER	620	Amira MADI FASetif1 University
5	Adhesion and Corrosion of Ti, TiN and TiCrN films in a simulated physiological solution (SBF)	622	Djamel AMARI AM Bejaia University
6	Elaboration and Characterization of Erbium Electrodeposited On Silicon Nitride	632	Afaf BRIK CRTSE, Algiers
7	Characterization and deposition of sprayed cupric oxide (CuO) thin film and their sensing application	637	Meryem Lamri ZEGGAR MB Constantine Univesity
8	The effect of deposition time on the Optoelectronic proprieties of fluorine doped SnO2 thin films deposited by spray pyrolysis for solar cells	971	Amel ADJIMI MBConstantine Univesity
9	Study and characterization of the microstructure, crystallographic texture and mechanical properties of AGS aluminium alloy cold drawn wire	650	Fayçal BAIRA MB Batna2 University
10	Synthesis and characterization of new composite films (ITO/PBTh-MnO2) and their luminescence properties	654	Ahmed BAHLOUL MEI B.B.A University
11	Fabrication of A2024-T3/Al ₂ O ₃ and A2024-T3/Ti ₃ SiC ₂ Surface Composites By Friction Stir Processing	656	Abdessabour BENAMOR Aeronefs Lab., ALGERIA
12	Contribution of the improvement of continuous casting steel quality at sider el-hadjar – Annaba	675	HAMLAOUI Katib CRTI, Algiers
13	Thermal insulating behaviors of Polypropylene/Spanish Broom flour composites	677	Fairouz ZOUAOU NOUAR FASetif1 University
14	Physical Properties of SnS thin films grown by ultrasonic spray	678	Imane Bouhaf KHERKHACHI Biskra University
15	Inhibition effects of a synthesized novel 3,5-diphenyl pyrazole derivatives on the corrosion of mild steel in hydrochloric acid solution together with quantum chemical studies	679	Fayssal BOUDJELLAL TM Saida University
16	Properties of Ni:ZnO thin films deposited by pneumatic spray pyrolysis	686	Labidi Herissi LT Tebessa University
17	Wetting behavior of Ti ₂ AlC/Ti ₃ AlC ₂ composites with Cu and Al fillers during tungsten inert gas (TIG)-brazing	701	Nabil CHIKER Aeronefs Lab.,SDBlida1 University
18	Effect of the Al thickness layer on the structural, optical and electrical properties of ZnO/Al/ZnO multilayer structures grown by DC sputtering at room temperature	713	Saad AMARA CDTA, FASetif1 University
19	Heterogeneous UV-Fenton catalytic degradation of synthetic dye with MgCuFe-CO ₃	719	Zoubir MANAA FASetif1 University
20	Structural and Optical properties of cuprous oxide Cu ₂ O Thin Film	724	Deloulla LAKHDARI CRTI, Algiers
21	Effect of Mn Doping on the Structural and Optical Properties of ZnO thin Films	736	Rabie AMARI MB Msila University
22	Electrocrystallisation of Nickel-Raney electrode material for the production of hydrogen by alkaline water electrolysis	738	Rabah ASSELI FASetif1 University
23	Current transport mechanism of Cd doped TiO ₂ films based on MOS device	745	Ouidad BELDJEBLI MB Constantine University
24	EFFECT OF THE MASSE LOADING ON THE OXYGEN REDUCTION REACTION KINETICS OF THE NANOCRYSTALLINE La _{0.5} Sr _{0.5} MnO ₃ PEROVSKITE IN ALCALINE MEDIUM	754	Noureddine KHELLAF FASetif1 University
25	Comparative study on the influence of ZnO incorporation on the morphological properties of HDPE / ZnO and PVA / ZnO nanocomposites	756	Nassima KHARCHI FASetif1 University

26	Deposition of hybrid organic-inorganic perovskite films at low temperature	758	Itidel BELAIDI MB Constantine University
27	Current density effect on the morphology and structural properties of nanocrystalline Co-Ni thin films:Rietveld Analysis	763	Fatima Zohra BOUZIT 8 May 1945 Guelma University
28	Effect of layered double hydroxides reinforcement on the curing characterisation of styrene butadiene rubber (SBR) nanocomposites	778	Amina ALLEL SD Blida1 University
29	STRUCTURAL AND OPTICAL CHARACTERIZATION OF NANO-STRUCTURED TiO ₂ DOPE HG THIN FILMS OBTAINED BY SOL-GEL METHOD	781	Fouzia ABBAS ALGERIA
30	Effect of Al ₂ O ₃ doping on The properties of electrodeposited zinc alloy coatings	784	Malika DIAFI ALGERIA
31	Structural and microstructural properties of Al-doped ZnO thin films deposited on silicon substrate by sol gel method	786	Ahlem LEBBAD FASetif1 University
32	Annealing effect on structural and electrical properties of Al-doped ZnO thin films prepared by sol gel method	787	Ahlem LEBBAD FASetif1 University
33	Characterization of ZnO thin films obtained by sputtering	792	Med Amine FORTAS FASetif1 University
34	AIR PRESSURE INFLUENCE ON PROPERITIES OF INDIUM OXIDE (In ₂ O ₃) NANOSTRUCTURED THIN FILMS GROWN BY AN ULTRASONIC SPRAY CVD PROCESS	802	Adel BOUHDJER MK Biskra University
35	Synthesis of FeTiO ₃ /rGO composites for remediation of Methylene bleu: kinetics study under different artificial visible light intensity	823	Mohamed Khalil GUEDIRI FASetif1 University
36	Chemical deposition of Cu ₂ ZnSnS ₄ /ZnS hetero-junction using pneumatic spray pyrolysis	824	Fatima Zohra BOUTEBAKH MB Constantine University
37	Infrared Emissivity and Microstructural Properties of Silica-based Glass with Different Hematite Quantities	836	Abdelaziz GAHMOUSSE FASetif1 University
38	Elaboration and Characterization of Copper Oxide (CuO) Thin Films Deposited by th Pyrolysis Method	837	Youcef BELLAL CRTI, Algiers
39	Chemical Synthesis and Characterization of nickel oxide as semiconductor thin film and doping agent of titanium dioxide	838	Antar BOUHANK FASetif1 University
40	Improvement of the hardness and wear resistance of chromium nitride by adding of the Zirconium	841	Linda AISSANI AL Khenchela University
41	One-step electrodeposition and characterization of Cu ₂ O nano-crystalline thin films for photovoltaic application	866	Sabrina DERBAL FASetif1 University
42	Elaboration and characterization of nickel phosphorus composite coatings to study the phenomenon of corrosion	877	Ahlam BELGROUNE LB O.Bouaghi University
43	Frictional and wear behaviour of heat-treated and duplex-coated 35NCD6 steel	886	Soheib MOKHTARA ALGERIA
44	Influence of growth time and temperature on the morphology of ZnO nanorods via electrodeposition and sol-gel method	896	Fayssal YNINEB CDTA, UROP-SECM, Algiers
45	Characterization of galena surfaces and potassium isoamylxanthate (KIAX) synthesized adsorption	906	Asma NOUIOUA MK Biskra University
46	Investigating nanoparticles formation in PECVD using OES characterization	910	Youcef FERMI MB Constantine University
47	The Role of Chloride and Carbonate Ions on Carbon Steel Passivity Studied in Simulating Concrete Pore Solutions	911	Nadjette BOURENANE MCM Souk Ahras University
48	Influence of EDTA additive on the electrodeposited Zn-Ni thin films	913	Hayette FAID MEI BBA University
49	Effect of Mn Substitution on Structural Properties of BSCCO Ceramics Superconductors	914	Nassima BOUAZIZ Physics Departement ALGERIA
50	Surface modification of activated carbon and application in water treatment to removal dyes and metals	915	Amel BELAYACHI AB Oran1 University
51	Treatment of Aluminum Alloy by Laser Excimer	921	Laila BAZIZ ALGERIA
52	Annealing treatment effect on the structural, morphological and optical properties of erbium doped nanostructured ZnO films deposited by sol gel	939	Walid ALLAG FASetif1 University
53	Layer Number Effect on SnO ₂ Thin Film prepared by dip- coating technique	955	Haouanoh DJEDJIGA MB Boumerdes University
54	Structural, Surface morphology and electrical properties of evaporated Permalloy Ni ₈₀ Fe ₂₀ /Si(100)thin films	958	Ounissa CHERRAD FASetif1 University
55	Synthesis and crystal structure determination of tin(ii) oxalate	959	Khaoula KARBOUCHE 20 August 1955 Skikda University
56	Effects of sterilization and disinfection procedures on the corrosion of orthodontic ligature cutters	1252	Rihane BOULMERKA BM Annaba University
57	Investigation of corrosion inhibition effect of vitamin B1 on copper in 1M HNO ₃	1296	Amel SEDIK

	solution: electrochemical study and surface analysis		(Rihane BOULMERKA) CRAPC, BouIsmaïl Tipaza
58	Effects of Halloysite Nanotubes on Physico-Mechanical Properties of Polyamide-11 Bionanocomposites	1165	Nadjet DEHOUCHE AM Bejaia University

13 SEPTEMBRE 16h-18h Topic 1

1	Synthesis and characterization of multilayered CuO-Cu ₂ O/ZnO thin films	1370	Elhadj Benrezgua Benrezgua Ibrahim MB Msila University
2	A New Structure of a-Si:H TFT with Si ₃ N ₄ /HfO ₂ Double Gate Layer Dielectric	1371	Siham BELKACEMI MB Batna2 University
3	Photoconductivity and defects levels in SnO ₂ thin films	1373	Selma KAOUR LB O.Bouaghi University
4	The impact of the concentration solution on the physical properties of SnO ₂ thin films deposited by spin coating	1375	Soumia BELHAMRI ENP Oran
5	Elaboration of thin layers of Zinc on XC38 steel in the presence of nettle plant extract	1414	Aida ZAABAR AM Bejaia University
6	Influence of Fe content on tribologic properties of α - β type Ti-6Al-xFe powders prepared by mechanical milling	1416	Fouzia HAMMADI AL Khenchela University
7	Synthesis of complex oxides composite ZnO/ZnAl ₂ O ₄ by spray pyrolysis: Study of strain, structural and optical properties	1417	Sabrina IAICHE AL Khenchela University
8	Elaboration and characterisation of porous silicon thin films for solar cells application	1424	Samira OUSSIDHOUM MMTO University
9	Characterization of Thin Films of CZTS using Transmission Electron Microscopy	1427	Charif TAMIN USTO-MB University, ALGERIA Bourgogne Franche-Comté University, FRANCE
10	Synthesis and characterization of acid porous heterostructures adsorbents for enhanced removal of methylene blue from aqueous medium	1422	DAAS NIHED FASetif1 University
11	Copper-polypyrrole composite films for electrocatalysis of ascorbic acid	1336	Charif DEHCHAR CRTI, Algiers
12	Synthesis and Characterization of Polythiophene-modified Montmorillonite Nanocomposite	1430	Nora OUIS USTO-MB University
13	Ni and Ni/Zn Hydroxide based Nanohybrid Synthesis using Hydrothermal Process	1441	Naima HABIB BM Annaba University
14	On the structural and morphological properties of electrodeposited Mo coated onto Cu substrate under current density	1628	Fatima NEMLA FASetif1 University
15	Surface morphology, electrical resistivity and structural study of Ni/Au/Si(111) annealed system up to 800°C.	1629	Djellal CHERRAD FASetif1 University
16	Structural and Optical Properties of Bismuth Sulfide Thin Films Deposited by Spray Pyrolysis	1631	Zeyneb AMARA DL SBelabbes University
17	Thermal insulating behaviors of Polypropylene/Spanish Broom flour composites	677	Fairouz ZOUAOU NOUAR FASetif1 University
18	Synthesis and characterization of new pyrazole heterocyclic derivatives using as a protective organic film for mild steel corrosion in acidic media.	818	Abdelghani SEHMI MT Saida University
19	Experimental and quantum chemical analysis of 4, 4'-bis(2,4-dihydroxybenzaldehyde) diphenylethanediimine as new corrosion inhibitor for mild steel in 1M hydrochloric acid solution	882	Amel GHAMES FASetif1 University
20	Improvement in corrosion protection of electrodeposits zinc by ceria based coatings: Elaboration, analytical and electrochemical characterization	922	Youcef HAMLAOUI MCM Souk Ahras University
21	Improvement Of The Properties Of The Nanocomposite Materials	1007	Achraf CHERIFI CRTI, ALGERIA
22	Corrosion inhibition of carbon steel in 1M HCl solution by <i>Lamium Flexuosum Ten</i> extract	1024	Hiba MAHFOUD LB O.Bouaghi University
23	Evaluation of the Corrosion Inhibiting Efficacy of Two Thiazolines Derivatives against XC38 Steel Corrosion In Acidic Medium	1063	Asma ATTOU TM Saida University
24	PREPARATION AND CHARACTERIZATION OF TITANIUM OXIDE NANOCOMPOSITE MEMBRANES	1126	Affaf TABBICHE USTO MB Oran University
25	Deposition of zeolite films on metal surfaces and studies of their corrosion inhibiting effects in NaCl medium	1295	Samaha HAMBLI LBM O.Bouaghi University
26	Study of the effect of temperature and time on the anticorrosive power of a Schiff base molecule named {4, 4' Bis (2-Furane Carboxaldehyde) Diimino Diphenyl Sulfide} on mild steel in acidic medium	1365	Imene BENMAHAMMED FASetif1 University
27	Electrochemical and Mechanical characterization of composite Ni / SiC coatings produced by electrodeposition on XC45 steel.	1431	Laala GHELANI MB Batna 2 University
28	Elaboration and characterization of a refractory based on Algerian kaolin: evolution	1433	Sabrina LADJAMA

	with heat treatments up to 1450° c		CRTI, Cheraga, Algiers
29	Deposition and characterization of Mg-doped ZnO nanostructured thin films	1443	Abdelhafid MAHROUG MB M'sila University
30	Effect of aluminium ions as dopant on physical, optical properties of electrodeposited ZnO nanorod arrays.	1446	Abderrahmane BERCHI UMMTO
31	The influence of the oxygen percentage on the properties of ZnO thin films deposited by radio-frequency magnetron sputtering	1484	Hind ZEGTOUF USTHB
32	CRYSTALLIZATION OF AMORPHOUS HYDROGENATED SILICON BY NICKEL INDUCED CRYSTALLIZATION METHOD (NIC)	1505	Ouafa BENZAOUZ USTHB
33	The influence of glycine on the formation of calcium carbonate polymorphs	1521.	Louiza ABIDI AM Bejaia University
34	Synthesis and characterization of new composite films (ITO/PBTh- MnO ₂) and their luminescence properties	1618	Ahmed BAHLOUL MEBEI BBA University
35	Synthesis, Nonlinear optics properties of new thin films of schiff bases ligands containing o-tolidine.	1622	Samia ARROUDJ AL Khenchela University
36	Effect of potential deposition on the Cu-Zn alloys thin films properties	1750	Abdelouahab REDJECHTA FASetif1 University
37	New unsymmetrical organic materials: ultrasound assisted synthesis, spectral characterization, X-ray structures, electrochemical and catalytic oxidation	1760	Moufida MERZOUGUI FASetif1 University
38	Sequential deposition of Cu/In/Se ₂ thin films	966	Kheireddine BENCHOUK AB Oran1 University
39	Synthesis and characterization of n-ZnO/p-NiO heterostructure	967	Abdelouahab NOUA LB O.Bouaghi University
40	Electrocatalytic effect of polybithiophene films containing transition metal nanoparticles	975	Leila LAMIRI CRTI, ALGERIA
41	EFFECT OF PLATING PARAMETERS ON ELECTRODEPOSITED Ni-Fe THIN FILMS USING EXPERIMENTAL DESIGN STRATEGIES	983	Adila TALBI 8 May 1945 Guelma University
42	XRD characterization of iron oxide nanoparticles	984	Imen GRABSI LB O.Bouaghi University
43	Optical characterisation of SiO ₂ -ZrO ₂ hybrid coatings, deposited on soda lime glass substrate through sol gel route using nanoparticles of silica and zirconia	985	Abdelwahab AYADI FASetif1 University
44	GROWTH AND CHARACTERISATION OF CZTS SINGLE CRYSTAL	991	Safia KEROUR FASetif1 University
45	STRUCTURAL PROPERTIES OF CIGS THIN FILMS GROWN BY CSVT TECHNIQUE	998	Meryem LASLADJ FASetif1 University
46	Copper electrodeposition from non aqueous solution	1002	R.K. BOURICHE FA Setif1 University, AL Khenchela University
47	Synthesis of submicronic alumina powders from aluminum slag	1003	Ahmed BENKHELIF FASetif1 University
48	Development of novel hybrid materials based on PPA/ZnO: Preparation, characterization and electrochemical studies	1006	Samia DAIKH ALGERIA
49	Study of structural and optical properties of nanostructure Ni doped ZnO thin films prepared by sol-gel spin coating technique	1017	Abdelkader MOHAMMEDI MB Msila University
50	The structural and optical behaviour of copper oxide (CuO) nanostructures obtained by sol-gel method	1019	Amir MOUSSAOUI FASetif1 University