



APES



12th MAGHREB-EUROPE Days (Materials and Application to Devices and Sensors)

MATERIAUX ET APPLICATIONS AUX DISPOSITIFS ET CAPTEURS

Hôtel SkanesSerail ****,
Monastir(Tunisie)

09 au 11 Novembre 2022

€-MRS MADICA 2022

Program

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NANOMISENE

MADICA 2022

Monastir-Tunisia, 09 -11, 2022

Opening session

Wednesday, 9th, 11, 2022

At 8:30

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Plenary Session

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Wednesday November, 9th, 2022

Plenary Session-1 9:30 -10:30				Chairman : Nicole Jaffrezic
09:30	Steffen Michael	Weidner	Federal Institute for Materials Research and Testing (BAM), Berlin, Germany	MALDI-ToF mass spectrometry for characterization of biobased polymers suitable for depollution
10:00	Kais	Boujdaria	Faculty of science of Bizerte Laboratory Materials Physics: Structure and Properties, Tunisia.	Dielectric Effects and Exciton Fine Structure of Lead Halide Perovskite Nanocrystals and Nanoplatelets.
10:30	Roman	Krahne	Italian Institute of Technology (IIT), Genoa, Italy	Ultrathin Metal-Dielectric Nanocavities for Light Emission Engineering
Coffee Break				

Thursday November, 10th, 2022

Plenary Session-2 8:30 -10:00				Chairman : Kais Boujdaria
08:30	Philip	Menini	LAAS, Toulouse France	Micro and Nanotechnologies for Miniaturized Gas Sensors
09:00	Milena	Arciniegas	Italian Institute of Technology (IIT), Genoa, Italy	Designing the optoelectronic functionality of layered perovskites through their organic cations
09:30	Piro	Benoit	Laboratoire ITODYS, Université Paris Cité, CNRS UMR 7086	FABRICATION PAR IMPRESSION DE TRANSISTORS POUR LA DETECTION D'ANALYTES BIOLOGIQUES OU ENVIRONNEMENTAUX.
Coffee Break				

Friday, November 11th, 2022

Plenary Session-3 8:30 -9:00				Chairman : Rym Mlika
08:30	Michel	Negrerie	Laboratoire d'optique et de Biosciences Institut	Quantum dot-based sensors : overview and perspective.

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			polytechnique de paris	
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Session-A

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Wednesday November, 9th, 2022

Session-1 11:30 -12:30				Chairman : Hatem MAJDOUB
A1/9 ¹	11:30	Saber	Chatti	Chemical modification of lignins by functional polymers: towards specific green phases for the adsorption of organic pollutants in water
A2/9 ¹	11:50	Abderrazak	Houyem	NEW PARTIALLY BIOBASED POLYEMIC MATERIALS FOR REVERSIBLE ADSORPTION OF WATER POLLUTANTS
A3/9	12:10	Rania	MECHICHI	SILICA GEL COATED WITH SEMI-INTERPENETRATING NETWORK FROM RENEWABLE RESOURCES FOR REVERSIBLE ADSORPTION OF WATER POLLUTANTS
A4/9	12:20	Nour El Houda	Birmi	Effect of the pendant groups on the biobased polymers obtained by click chemistry suitable for the removal of phenolic compounds from water
Lunch				

Session-2 14:00 -16:00				Chairman :Yves CHEVALIER
A5/9 ¹	14:00	BAOUAB	Mohamed Hassen V	Synthèse et caractérisation de nanocomposites conducteurs à base de « graphène » et de polysaccharides
A6/9 ¹	14:20	Dorizon	Helene	SYTNHESIS OF METALLOPORPHYRINES FOR CHARGE TRANSFER STUDY â€“ ELABORATION OF 2D MOLECULAR FILM
A7/9 ¹	14:40	Korri-Youssoufi	Hafsa	CONJUGATED POLYMER FOR BIOMEDICAL APPLICATIONS: SENSING AND THERAPY
A8/9 ¹	15:00	Mounir	Majid	Food packaging: Innovation, regulatory aspects and quality control parameters for food safety

1 Keynote:20mn

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A9/9 ¹	15:20	Zinedine	Abdellah	PROBLEMATIQUE DES MYCOTOXINES DANS LES ALIMENTS AU MAGHREB : METHODES ANALYTIQUES, CONTAMINATION, EVALUATION DU RISQUE ET REGLEMENTATION
A10/9 ²	15:40	SIHEM	ABDERRAHMANE	The effect of bio-synthesized ZnO nanoparticles on A9M steel corrosion in acid media
Caffe Break				

Session-3 16:30 -17:20				Chairman :Hafsa KORRI-YOUSSFI
A11/9	16:30	Bartoň	Ivo	SOL-GEL PREPARATION OF OPTICAL FIBERS WITH P2O5-TIO2-SIO2 GLASS CLADDINGS
A12/9	16:40	Maliana	El Aamri	PAPER-BASED COLORIMETRIC DETECTION OF MIRNA-21 USING PEROXIDASE MIMETIC ACTIVITY OF CYS/AuNPs
A13/9	16:50	Ibıbjıjen	Amal	BIOSOURCED FOOD PACKAGING INTEGRATING BACTERIAL BIOSENSORS
A14/9	17:00	Amira	NAHDI	Synthesis of WO ₃ /g-C ₃ N ₄ /Cu Hybrid Nanocomposite electrode for the electrochemical detection of Levofloxacin as an antibiotic drug
A15/9	17:10	Khaoula	Kacem	Bio-reduction of graphene oxide using pomegranate peels for NO ₂ sensing and photocatalysis applications

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Session-4 10:30-12:30				Chairman :Mohamed Hassen V BAOUAB
A1/10 ³	10:30	Aziz	Amine	PAPER SENSOR COMBINED WITH SMARTPHONE FOR DIAGNOSIS, FOOD SAFETY AND ENVIRONMENTAL MONITORING
A2/10 ³	10:50	Sojic	Neso	ULTRASENSITIVE ELECTROCHEMILUMINESCENCE DETECTION: FROM BEAD-BASED IMMUNOASSAYS TO CELL IMAGING
A3/10 ³	11:10	hatem	majdoub	Polysaccharides from Tunisian natural sources: Development of green materials, biological activities, pharmaceutical applications and biosensing
A8/10	11:30	Vautrin-UI	Christine	STRATEGY OF FUNCTIONALIZATION FOR MICROPOLLUTANTS ELECTROCHEMICAL SENSORS
A4/10	11:50	Madaci	Anis	Chitosan-based imprinted polymers for the electrochemical detection of yeasts
A5/10	12:00	Marwa	Sebai	Sensitive detection of heavy metal ions based on partially biobased poly (pyridine ether) films.
A6/10	12:10	Ouni	Sabri	Chitosan/ZnS-nanoparticles composite as a novel conductometric micro-sensor for methanol detection
A7/10	12:20	Meriem	Mokni	Design of a novel immunosensor for the detection of Engrailed 2, a prostate cancer biomarker
Lunch				

Session-5 14:00-16:00				Chairman : Abdelhamid ERRACHID
A9/10 ⁴	14:00	Renaud	Louis	A NEW MULTI-LEVEL DESIGN FOR THE MICROFLUIDIC MIXING OF ALGAE, PARTICULES OR CELLS

3 Keynote:20mn

4 Keynote:20mn

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A10/10 ⁴	14:20	MatĚjec	Vlastimil	DETECTION OF URINE AND SALIVA pH WITH U-SHAPED FIBER-OPTIC ELEMENTS PROVIDED WITH XEROGEL COATINGS IMMOBILIZING ABSORPTION pH INDICATORS
A11/10 ⁵	14:40	Ali	ZAZOUA	Développement d'un capteur électrochimique à base d'un polymère à empreinte ionique pour la détection sélective des ions métalliques
A12/10 ⁵	15:00	Manel	Lopez	BIODETECTION OF ENVIRONMENTAL MARINE CONTAMINANTS: THE IRGAROL CASE STUDY
A13/10	15:20	Amal	Tlili	Efficient elaboration of molecularly imprinted polymer-based sensors for proteins detection
A14/10	15:30	sondes	GUESMI	Development of an Electrochemical Sensor for Selective determination of nicotinic acid Based on molecularly imprinted poly(o-aminophenol) Polymeric Film
A15/10	15:40	Merymen	Boukadida	DESIGN OF A NEW MOLECULARLY IMPRINTED POLYACRYLAMIDE FOR HISTAMINE EXTRACTION
A16/10	15:50	Jihen	Soli	Effect of surfactant type on the properties and ethanol sensing performance of SnO ₂ nanoparticles obtained by modified sol-gel
Coffee break				

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Session-7 9:00-10:00				Chairman : Khalifa AGUIR
A1/11	09:00	Alaeddin	Maddouri	Synthesis of a 1D/0D CdS@ZnS nanocomposite as an electrochemical sensor for hydrogen peroxide detection
A2/11	09:15	Sameh	KAZIZ	SARS-CoV-2 Heterogeneous Microfluidic immunosensor: Numerical Optimization by Taguchi method
A3/11	09:30	Mona	Soltani	Emulsifying properties of mucilage and pectin extracted from <i>Opuntia ficus indica</i> cladodes.
A4/11	09:45	Asma	Youbi	<i>Borago officinalis</i> inhibitor effect on mild steel A9M in 1M H ₂ SO ₄ by weight loss method
Coffee Break				

Session-8 10:30-11:30				Chairman :Marc BENDAHDAN
A5/11	10:30	Mohamed	Ajrout	Fluorescence sensor based on MPA capped CdTe/ZnSe NPs for detection of Ag ⁺ ions in aqueous solution
A6/11	10:45	Bassem	Meddeb	Dielectric, electro-optical and viscoelastic properties of nematic phase driven by hydrogen-bonding between cyano group and fluoroalkoxybenzoic acid
A7/11	11:00	Brahim	Bouricha	Sharp real-time selectivity with the In ₂ S ₃ smart gas sensor using a non-linear dynamic response to VOCs
A8/11	11:15	Riadh	Souissi	Highly sensitive nitrogen dioxide and ozone gas sensors based on sprayed α -In ₂ S ₃ film
A9/11	11:30	ines	Abdellaziz	Investigation of gradient effect on structural and electrical properties of CZTS thin films growth by vacuum thermal evaporation

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Session-B

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Session-1 11:30 -12:30				Chairman : Roman Krahne
B1/9 ⁶	11:30	Moneim	ZANNEN	Sodium Bismuth Titanate Doped Rare Earth Elements: Promising Materials for Energy Storage Applications
B2/9 ⁶	11:50	Abdelilah	LAHMAR	Bi _{0.5} Na _{0.5} TiO ₃ based thin films for Energy storage capacitors
B3/9	12:10	Ilham	HAMDIA ALAOUI	Growth and characterization of lead free piezoelectric thin film under compressive strain
Lunch				

Session-2 14:00 -16:00				Chairman : Moneim Zannen
B4/9 ⁶	14:00	Noureddine	Chaaben	Review of GaN thermal decomposition to achieve high density of strain-free GaN nanoparticles
B5/9	14:20	Wafa	Malek	Growth of GaN nanoparticles by thermal treatment of GaN epilayer
B6/9	14:35	Omar	Rejeiba	Investigation Study of Optical and Dielectric parameters using Absorption and Diffuse Reflectance spectroscopy method on La _{0.57} Nd _{0.1} Sr _{0.13} Ag _{0.2} MnO ₃ perovskite for optoelectronic application
B7/9	14:50	khouloud	Abiedh	The study of PL properties of CsPbBr ₃ perovskite microcrystals by steady state and time resolved photoluminescence spectroscopies
B8/9	15:05	Hafedh	BRAHIM	SYNTHESIS AND CHARACTERIZATION OF ALL-INORGANIC PEROVSKITE MATERIAL FOR OPTOELECTRONIC AND PHOTOVOLTAIC APPLICATIONS

6 Keynote:20mn

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B9/9	15:20	dalanda	slimi	Optical study of the Ga ₂ O ₃ /BGaAs/GaAs heterostructures based on III-V materials
B10/9	15:25	Sana	Zouaghi	Temperature dependence of the optical transitions in III-V-Bi alloys: Contribution of thermal expansion
B11/9	15:40	Amira	Ben Abdelwahed	The impact of thermal annealing on the physical properties of the Bi films
Caffe Break				

Session-3 16:30 -17:20				Chairman : Fredj Hassen
B12/9	16:30	Makhlouf	Dhouha	TRANSITION LIFE TIME AND NONLINEAR OPTICAL PROPERTIES IN LATERALLY COUPLED LENS-SHAPED QUANTUM DOTS FOR TERA-HERTZ RANGE
B13/9	16:45	TOUMI	MOHAMED	Chlorine doping effect on the structural and photoconductive properties of sprayed In ₂ S ₃ thin films
B14/9	17:00	Mariem	Ltayef	Investigation of some photophysical properties of new conjugated copolymer involving MEH-PPV and P3HT for organic optoelectronic applications

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Session-4 10:30-12:30				Chairman : Menini Philip
B1/10	10:30	Chadha	Mejri	Study of the structural response of a dioctahedral smectite: coupling of a first order stresses to remove heavy metals.
B2/10	10:45	omaima	guesmi	Optical study of CCTS film as potential candidate for photovoltaic applications
B3/10	11:00	lisa	Weber	COPPER-BROMIDE-IMPREGNATED MESOPOROUS AMMONIA MICROSENSOR FOR CHRONIC KIDNEY DISEASE MONITORING
B4/10	11:15	Mhamdi	Hela	NO ₂ gas sensor based on meso-porous silicon operating at room temperature
B5/10	11:30	Asma	BLEL	Development of an electrochemical nanoplatfrom based on ZnO nanoparticles and carbon black nanocomposite for the detection of tryptophan
B7/10	11:45	maroua	moslah	Development of cost-effective and eco-friendly sensing nanoplatfrom for the simultaneous determination of dopamine and serotonin
B8/10	12:00	Menyar	Ben Jaballah	Visual Detection of Chromium (VI) using Smartphone via Colorimetric Paper-based Analytical Devices: Application for water quality monitoring
Lunch				

Session-5 14:00-16:00				Chairman : Michel Negrerie
B9/10 ⁷	14:00	Abdelkader	AISSAT	GaAs _{1-z} Biz/GaAs Quantum Dot Integration in Solar Cell (QDSC)

7 Keynotes:20mn

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B10/10	14:20	Ahlem	Teniou	A simple fluorescent aptasensing platform based on graphene oxide for dopamine determination
B11/10	14:35	Bouchet	Latifa	Parametric design impact of Ultra-Wide-Band Microstrip Patch Antenna for Microwave Imaging of Early Breast Cancer Detection
B12/10	14:50	Gassab	Marwa	Physicochemical and dielectric performance of PVA plasticized matrix for flexible sensors
B13/10	15:05	kaaroud	khadija	Synthesis, crystal structures and optical properties of rare earth silicate oxyapatite.
B14/10	15:20	Boubaker	Agoubi	First principles calculation of electronic and thermoelectric properties of copper oxide
B15/10	15:35	Prades J.	Daniel	DEVICE ARCHITECTURES FOR ULTRA-LOW-POWER SOLID-STATE GAS SENSORS
B16/10	15:50	Dieguez	Angel	CHIP-SIZED MICROSCOPES BASED ON MICROELECTRONIC TECHNOLOGY
Coffee break				

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Posters Session

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Session-6 16:30-18:00				Posters session
A/P1	16:30	Besbes	Fatma	Performance of micro-conductometric sensor based on nanofibers using alcohol oxidase enzyme for methanol detection.
A/P2	16:30	Chama	MABROUK	Molecularly Imprinted Electrochemical Sensor Based on Modified Titanium dioxide Nanoparticles-polypyrrole-chitosan Nanocomposites Film for Sensitive Detection of Dopamine
A/P3	16:30	balkis	abdelaziz	A combined experimental and computational study on intra-molecular charge transfer ability in nitrobenzofurazan derivatives
A/P4	16:30	Amira	ANENE	Improving the taste of the active ingredients in a drug by encapsulation in cyclodextrins
A/P5	16:30	Amira	Hfaiedh	Photophysical Properties of Carboheptahelicene Derivatives Bearing Cyano Substituents: A Combined Experimental and DFT-TDDFT Computational Study
A/P6	16:30	afrah	atri	Activation of Peroxymonosulfate using Green synthesis of CuO/ZnO nanocomposite for degradation of Tetracycline antibiotic under visible light irradiation
A/P7	16:30	Fatma	Rejab	Electrochemical sensor based on Magnesium Tetrphenylporphyrin (MgTPP) for the detection of Bisphenol A
A/P8	16:30	Haifa	Mliki	Electrochemical Sensing Fabricated with Cobalt-Doped Zinc Oxide Nanoparticle (ZnO-Co)-Graphene Oxide (GO)Nanocomposite for the Detection of Oxytetracycline
A/P9	16:30	zouhour	hsine	Properties of Heteroatoms Doping Reduced Graphene Oxide Synthesized by Hydrothermal and application in detection of dopamine
A/P10	16:30	Mona	Soltani	Gelling behaviour of natural pectic acid: Modeling with commercial polygalacturonic acid
A/P11	16:30	NACIRA	MECHERI	Elaboration and characterization of poly aniline layers on a platinum surface for sensor application for the detection of ascorbic acid
A/P12	16:30	Moulahi	Nadhem	Impedimetric sensor for iron(III) detection based small molecule (E)-2-((phenylimino)methyl) phenol modified platinum electrode

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A/P13	16:30	Nadia	Ktari	A novel electrochemical sensor based on molecularly imprinted copolymer for metronidazole detection
A/P14	16:30	ibtissel	Jlalia	Alternating bio-based pyridinic copolymers modified with hydrophilic and hydrophobic spacers as sorbents of aromatic pollutants
A/P15	16:30	Afifa	Hafidh	Silica hybrids as antimicrobial materials
A/P16	16:30	soumaya	agren	Ultrasound-based Synthesis of Six Anils: Experimental and Theoretical Structural Studies and a Preliminary Photophysical Study of Substituent Effects on Chromogenic and Fluorogenic Cation Sensing
A/P17	16:30	khaoula	Hamrouni	Synthesis and chiroptical properties of a new helicene
A/P18	16:30	Chaima	Hassouna	MACROCYCLE TETRAAZA COMBINES: CHARACTERISATION, COMPLEXATION ET MODELISATION PAR DFT
A/P19	16:30	Hajji	Ibtissem	Synthesis, characterization and photophysical properties of new polycyclic aromatic hydrocarbons
A/P20	16:30	Siwar	Cherbib	DESIGN OF PARTIALLY BIOSOURCED CROSSLINKED MATERIALS FOR THE REVERSIBLE ADSORPTION OF PHENOLS
A/P21	16:30	Kamilia	MOUSSAOUI	A NOVEL SYNTHESIS OF SOME NEW SYSTEMS RELATED TO BIPHENYLENE
A/P22	16:30	Eya	HADRICH	EXTRACTION OF HYDROXYTYROSOL FROM OLIVE TREE BY-PRODUCTS
A/P23	16:30	Maryem	HAMMAMI	Synthèse, caractérisation et application des nouveaux polyamides
A/P24	16:30	Naila	MRAIEH	Development of new materials based on graphene oxide and pyridine polymers for reversible adsorption of pollutants
A/P25	16:30	Rafik	Kalfat	Design and development of a PGE for the electrochemical detection of Levofloxacin
A/P26	16:30	Naouel	Chibout	Développement d'un nouveau biocapteur pour la détection de la testostérone à base de polydiacétylène
A/P27	16:30	Badreddine	MAALEM	Investigation on corrosion inhibition of stainless steel 316L by Black Cumin cake extract in 3M HCl medium
A/P28	16:30	RIHANE	BOULMERKA	Synergistic effect of two green inhibitors and potassium iodide on the corrosion of AISI 410 steel in 0.5M H ₂ SO ₄

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A/P29	16:30	Mosaab	echabaane	Development of an electrochemical sensor based on palladium complex for the detection of oxytetracycline
A/P30	16:30	Menyar	Ben Jaballah	Voltammetric electronic tongue based on different modified electrodes for the discrimination of various antibiotics in drinking water
A/P31	16:30	Korri-Youssoufi	Hafsa	DEVELOPMENT OF NOVEL MODIFIED NANOFIBERS FOR THERAGNOSTIC APPLICATIONS IN CANCER
A/P32	16:30	Bouchet	Latifa	3D-TLE (Transmission Line Extractor) platform to determine NMR microcoil sensitivity by electrical modelization
A/P33	16:30	Mounir	Ben Ali	Simultaneous determination of dopamine and uric acid using a new polymerized copper phthalocyanine multi wall carbon nanotubes complex on glassy carbon electrode
A/P34	16:30	maroua	moslah	New highly sensitive serotonin sensor based on green Ag nanoparticles decorated reduced GO
A/P35	16:30	MESSAST	Sarah	Plectranthus amboinicus leaf extract-assisted biosynthesis of ZnO nanoparticles and their biocidal activity.
A/P36	16 :30	Mohammadi	Hasna	Smartphone colorimetric detection of microRNAs via complexation of ammonium molybdate with phosphate groups
A/P37	16 :30	Yves	Chevalier	Improving the taste of the active ingredients in a drug by encapsulation in cyclodextrins
A/P38	16 :30	Yves	Chevalier	Evaluation of masking the unpleasant taste of phytotherapeutic cough syrup using an E-Tongue
A/P39	16 :30	Yves	Chevalier	Design of Molecularly Imprinted Polymer Materials Relying on Hydrophobic Interactions
A/P40	16:30	Sandrine	Bernardini	Carbon dioxide detection with lanthanum dioxycarbonate
B/P1	16:30	khouloud	Abiedh	Surface Dependent Optoelectronic properties of CsPbBr ₃ microcrystals grown on functional substrates
B/P2	16:30	Rabia	Benabderrahm	Synthesis and characterization of graphene films by CVD technique for gas sensing applications

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			ane zaghouani	
B/P3	16:30	FAROUK	Dehmchi	Sensor property in incorporating nanofibers of PVA in powders
B/P4	16:30	dennai	benmoussa	Simulation of Vertical Tandem Solar Cell with Four Junctions
B/P5	16:30	BOUKAIS	Meriem	Study of carrier recombination in a heavily doped Si solar cell using Atlas –Silvaco software
B/P6	16:30	Krikeb	Chaima	optical band gap of zinc salt of ruthenium disilico octadeca tungsten
B/P7	16:30	Mohamed	AISSA	multifunctionality of rare earth doped 0.925NA0.5BI0.5TIO3-0.075K0.5NA0.5NBO3 ferroelectric ceramics
B/P8	16:30	Abdelali	Laid	Étude des paramètres électronique et optiques du alliage GAINP
B/P9	16:30	maroua	moslah	New highly sensitive serotonin sensor based on green Ag nanoparticles decorated reduced GO
B/P10	16:30	Sahar	Lahouar	Etude des propriétés optiques et structurales des films de polyimide (kapton-H) traités par plasma
B/P11	16:30	Elkalla	Eslam	Elaboration of ferrofluid capsules for lab-on-a-chip and microsystems use
B/P12	16:30	Hamamed	Najah	vibration and leak detection in water distribution metallic pipes
B/P13	16:30	Bouchet	Latifa	Ultrasound sensors for Breast cancer early detection
B/P14	16:30	Bouchet	Latifa	Study of the Effect of Temperature on the Resolution of Long Range Surface Plasmon base sensors
B/P15	16:30	Mouna	Harzallah	Study of the functional theories of non-covalent interactions in bis [4-(dimethylamino)pyridinium] tetrabromidocuprate(ii) molecular structure, elf, rdg, aim, mep and humo-lumo analyses"
B/P16	16:30	Mariem	BEN HAJ HAMIDA	Development of cost-effective and eco-friendly sensing nanoplatfrom for the determination of sulfadiazine
B/P17	16:30	Hamid	BERRICHR	Theoretical investigation of Hydrogen adsorption in Structure of Carbon Materials

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B/P18	16:30	Mabrouk	Nesrine	theoretical study of cationic lithium dimers Li^+_2 interacting with Neon atom
B/P19	16:30	Sana	Akkari	Electronic structure and prospects for the formation of ionic-molecular alkali-metal-barium: BaAlk^+ (Alk=Li, Na, K, Rb, Cs and Fr)