

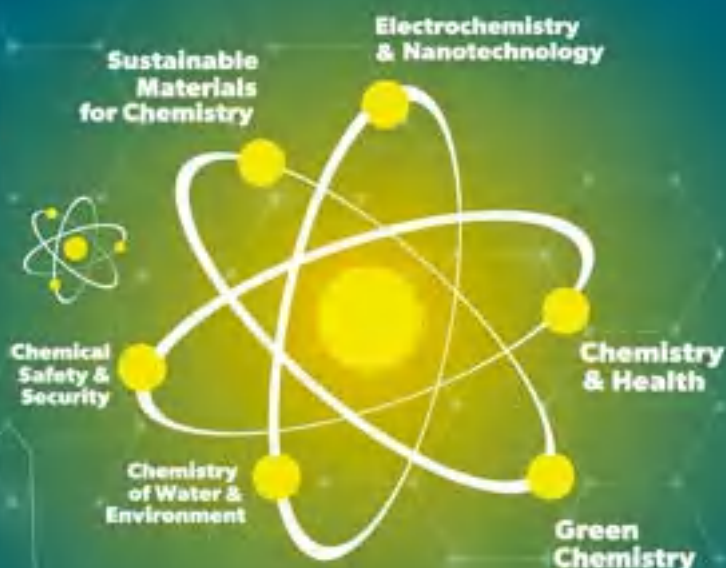


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9TH FASC/6TH CSC

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Possible publication of the proceedings in Pure and Applied Chemistry.

IUPAC endorsement implies that entry visas will be granted to all bona fide chemists provided application is made not less than six months in advance. If a visa is not granted two months before the meeting, the IUPAC Secretariat should be notified without delay by the applicant.

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| Contact: | Prof. Modou Fall (UCAD, Dakar) modou.fall@ucad.edu.sn |
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 Mr Ababacar DIOUF (UCAD, Dakar)

Gala Dinner

Prof Mbossé Ndiaye GUEYE (UGB, Saint Louis)
 Prof. Rokhaya Sylla GUEYE (UCAD, Dakar)
 Prof. Ousmane DIOUF (UCAD, Dakar)

Excursion

Prof. Abdoulaye Dramé (UCAD, Dakar)

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| PLENARY CONFERENCES | | | | | TECHNICAL TALKS | | |
|--|--|---|--|---|--|--|--|
|  |  |  |  |  |  |  |  |
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| <i>Humanity faces a bright future, and so Chemistry</i> | <i>Unlocking a sustainable future with green chemistry approaches</i> | <i>Valorization of biowaste in analytical sample preparation</i> | <i>Catalysis or Materials. Carbon Material Interconversions</i> | <i>Reverse Osmosis and scientific issues for seawater desalination in west Africa</i> | <i>Presentation of Chemistry Africa</i> | <i>Open Access and Open Science in Publishing</i> | <i>Elsevier solutions to help advancing chemistry education and chemistry research</i> |
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| <i>Recent Advances in the Development and Application of Nanozymes as novel chemical catalysts</i> | <i>Development of Electro- chemical Sensors for Pesticides Detection in Water: an ANEC/IPICS/ISP project</i> | <i>Serum DHEA formation based on oxidative stress process: a strategy for an ante mortem Alzheimer Disease diagnostic</i> | <i>Analytical Chemistry, a lever for the sustainable development of Local Products in Morocco: The Case of Argan Oil (Argania spinosa (L.) Skeels)</i> | <i>Industrial Waste Materials as Feedstocks to Decarbonize Cement and Concrete Industry</i> | <i>Inclusion and diversity- focus on gender parity and disability in the chemical sciences</i> | <i>Unlocking Research Funding and Networking Opportunities in Horizon Europe through EURAXESS Worldwide Africa</i> | <i>About CAS and Scifinder</i> |

TUESDAY NOVEMBER 19TH, 2024

| | | |
|---------------|--|---|
| 8:00 - 18:00 | REGISTRATION | |
| 8:30 - 9:40 | ORAL COMMUNICATIONS - 1 ST SESSION ROOM Adansonia <i>Off Topic 1</i> S1C1 - S1C7 | ORAL COMMUNICATIONS - 1 ST SESSION ROOM Digitata 1 <i>Off Topic 2</i> S1C8 - S1C14 |
| 9:45- 10:00 | COFFEE BREAK | |
| 10:05 - 10:50 | OPENING CEREMONY ROOM Adansonia | |
| 10:55- 11:55 | PLENARY CONFERENCE 1 ROOM Adansonia <i>President: Prof. Modou Fall</i> <i>Humanity faces a bright future, and so Chemistry</i> Prof Ehud KEINAN IUPAC President | |
| 12:00 - 13:15 | ORAL COMMUNICATIONS - 2 ND SESSION ROOM Adansonia <i>Chemistry and health 1</i> S2C15 - S2C20 | ORAL COMMUNICATIONS - 2 ND SESSION ROOM Digitata 1 <i>Chemistry of water and environmental 1</i> S2C21 - S2C26 |
| 13:15 - 14:30 | LUNCH BREAK | |
| 14:30 - 14:55 | PLENARY CONFERENCE 2 ROOM Adansonia <i>President: Dr. Elsie Dineo Moema</i> <i>Unlocking a sustainable future with green chemistry approaches</i> Dr Shimaa Heikal Life Sciences Department, Elsevier | |
| 15:00 - 16:05 | ORAL COMMUNICATIONS - 3 RD SESSION ROOM Adansonia <i>Green chemistry</i> S3C27 - S3C31 | ORAL COMMUNICATIONS - 3 RD SESSION ROOM Digitata 1 <i>Chemistry of water and environmental 2</i> S3C32 - S3C37 |
| 16:05 - 16:35 | COFFEE BREAK - POSTERS 1 ST SESSION: P1-1 – P1-13 | |
| 16:35 - 17:00 | TECHNICAL TALK 1 ROOM Adansonia <i>President: Prof. Hatem Ben Rhomdane</i> <i>Presentation of Chemistry Africa</i> Dr Clifford Chuwah Springer, Springer Nature, Dordrecht - The Netherlands | |
| 17:05 - 17:35 | TECHNICAL TALK 2 ROOM Adansonia <i>President: Prof. Vincent Nyamori</i> <i>Unlocking Research Funding and Networking Opportunities in Horizon Europe through EURAXESS Worldwide Africa</i> Prof Yedilfana Setarge Mekonnen Addis Ababa University and EURAXESS Africa - Ethiopia | |
| 17:40 - 18:40 | TECHNICAL MEETING ROOM Adansonia <i>EURAXESS and EU Funding and Tender portals: how to find research funding, collaborators and the steps for submitting proposals</i> Prof Yedilfana Setarge Mekonnen Addis Ababa University and EURAXESS Africa - Ethiopia | |

WEDNESDAY NOVEMBER 20TH, 2024

| | | |
|---------------|---|--|
| 8:30 - 9:50 | ORAL COMMUNICATIONS-4 TH SESSION ROOM Adansonia <i>Chemistry and health 2</i> S4C38 - S4C42 | ORAL COMMUNICATIONS - 4 TH SESSION ROOM Digitata 1 <i>Chemistry of water and environmental 3</i> S4C43 - S4C48 |
| 9:55 - 10:10 | COFFEE BREAK | |
| 10:10 - 10:35 | PLENARY CONFERENCE 3 ROOM Adansonia <i>Recent Advances in the Development and Application of Nanozymes as Novel Chemical Catalysts</i> President: President: Prof. Farba Bonyagui Tamboura Prof Aziz Amine FSTM, Hassan 2 University of Casablanca-Morocco | |
| 10:40 - 12:05 | ORAL COMMUNICATIONS - 5 TH SESSION ROOM Adansonia <i>Electrochemistry and nanotechnology</i> S5C49 - S5C55 | ORAL COMMUNICATIONS - 5 TH SESSION ROOM Digitata 1 <i>Chemistry and health 3</i> S5C56 - S5C62 |
| 12:10 - 12:35 | PLENARY CONFERENCE 4 ROOM Adansonia <i>Development of Electrochemical Sensors for Pesticides and their metabolites Detection in Water</i> President: Prof. Emmanuel Ngameni Prof. Issa Tapsoba Joseph KI-ZERBO University, Ouagadougou - Burkina Faso | |
| 13:00 - 14:30 | LUNCH BREAK | |
| 14:30 - 14:55 | TECHNICAL TALK 3 ROOM Adansonia <i>About CAS and SCIFINDER</i> President: Prof. Bice Martincigh Dr Veresha Dukhi ACS International, CAS, Durban - South Africa | |
| 15:00 - 16:25 | ORAL COMMUNICATIONS - 6 TH SESSION ROOM Adansonia <i>Chemistry of water and environmental 4/ Chemical safety and Security</i> S6C63 - S6C69 | ORAL COMMUNICATIONS - 6 TH SESSION ROOM Digitata 1 <i>Sustainable Materials of Chemistry</i> S6C70 - S6C76 |
| 16:25 - 16:55 | COFFEE BREAK - POSTERS SESSION P2-14 – P2-27 | |
| 17:00 - 17:25 | PLENARY CONFERENCE 5 ROOM Adansonia <i>Analytical Chemistry, a lever for the sustainable development of Local Products in Morocco: The Case of Argan Oil (Argania spinosa (L.) Skeels)</i> President: Prof. Abdoulaye Dramé Prof Said Gharby University Ibnou Zohr, Agadir - Morocco | |
| 17:30 - 19:00 | 9TH FASC GENERAL ASSEMBLY ROOM Adansonia | |
| 20:00-23:00 | GALA DINNER (RSC SPONSORED) Cercle de la Rade | |

THURSDAY NOVEMBER 21ST, 2024

| | | | |
|---------------|---|---|---|
| 8:30 – 10 :05 | ORAL COMMUNICATIONS - 7 TH SESSION ROOM Adansonnia | | |
| | <i>Chemistry and health 4</i> | <i>Sustainable Materials of Chemistry</i> | S7C78 - S7C83 |
| 10:05 - 10:20 | COFFEE BREAK | | |
| 10:20 - 10:50 | PLENARY CONFERENCE 6 ROOM Adansonnia | President: Prof. Matar Seck | Prof. Courfia Kéba Diawara Assane Seck University of Ziguinchor - Sénégal |
| | <i>Reverse Osmosis and scientific issues for seawater desalination in west Africa</i> | | |
| 10:55-11:35 | TECHNICAL TALK 4 ROOM Adansonnia | President Prof. Gloria Obuzor | Dr Alejandra Palermo Royal Society of Chemistry (RSC) - England |
| | <i>Inclusion and diversity-focus on gender parity and disability in the chemical sciences</i> | | |
| 11:40 - 12:05 | PLENARY CONFERENCE 7 ROOM Adansonnia | President: Prof. Abdou Karim Diagne Diaw | Prof. Alpha Ousmane Toure Cheikh Anta Diop University, Dakar |
| | <i>Industrial waste materials to decarbonize the cement and concrete industry</i> | | |
| 12:10 - 12:35 | TECHNICAL TALK 5 ROOM Adansonnia | President: Prof. Rokhaya Sylla Guèye | Dr Andrew Shore Royal Society of Chemistry (RSC) - England |
| | <i>Open Access and Open Science in Publishing</i> | | |
| 12:40 - 13:05 | PLENARY CONFERENCE 8 ROOM Adansonnia | | Prof Neil J Coville University of the Witwatersrand, Johannesburg 2050, South Africa |
| | <i>Carbon interconversions</i> | | |
| 13:05 - 14:30 | LUNCH BREAK | | |
| 14:30 - 15:00 | PLENARY CONFERENCE 9 ROOM Adansonnia | President Prof. Djibril Fall | Prof. Latifa Latrous Tunis El Manar University, Tunis |
| | <i>Valorization of biowaste in analytical sample preparation</i> | | |
| 15:05 - 15:35 | TECHNICAL TALK 6 ROOM Adansonnia | President: Prof. Makhtar Guene | Dr Sherif Ghazy Elsevier - UAE |
| | <i>Elsevier solutions to help advancing chemistry education and chemistry research</i> | | |
| | PLENARY CONFERENCE 10 ROOM Adansonnia | President Prof. Atanasse Coly | Dr. Saer Diallo, Laboratoire d'investigations et d'expertise Cheikh Aldiouma BA (Labiex-CAB), Dakar |
| | <i>Serum DHEA formation based on oxidative stress process: a strategy for an ante mortem Alzheimer Disease diagnostic</i> | | |
| 16:30 - 18:00 | CLOSING CEREMONY ROOM Adansonnia | | |



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ORAL COMMUNICATIONS

TUESDAY NOVEMBER 19TH, 2024**ORAL COMMUNICATIONS - 1ST SESSION ROOM *Adansonia*****8:30 - 9:40****OFF TOPIC 1****S1C1 – S1C4****President:**

➤ Prof. Ibrahima El Hadji Thiam

S1C1.**Selective binding of halides and oxyanions with new azacrown calix[4]arenes****Abdelwaheb Hamdi, Lassaad Baklouti, Riadh Ternane**

S1C2.**Synthesis and physicochemical characterization of cobalt phthalocyanine octa-substituted.****Ali Sanda Bawa, Adamou Zanguina, Mabinty Bayo-Bangoura Et Ibrahim Natatou**

S1C3.**Redefining Proton Affinity for Heteronuclear Molecular Species: Quantum Chemical Insights****E. E. Etim, J. P. Shinggu, H. S. Samuel, B. Bako, G. O. Ogofoth**

S1C4.**Strandberg-type POM: A Cluster Exhibiting Tunable Photochromism****Aboubacar Soumano, Lamine Yaffa, Balla Fall, Dame Seye, Antoine Blaise Kama, Bocar Traoré, Assane Touré, Guorgui Awa Seck, Cheikh A. K. Diop, Mamadou Sidibé, Florian Massuyeau, Rémi Dessapt, Romain Gautier.**

TUESDAY NOVEMBER 19TH, 2024**ORAL COMMUNICATIONS - 1ST SESSION ROOM *Digitata 1*****8:30 - 9:40****OFF TOPIC 2****S1C5 – S1C8****President:**

- Prof. Chamekh Mbareck

S1C5.**Photocatalytic Degradation of Methyl Orange Using Titanium Silicate****Iliya S.F., Kamba, E.A. and Samuel*, H.S.****S1C6.****CaO/SiO₂ catalysts for ultrasonic biolubricants production****Insa Seck, Héra Laajimi, Daria C. Boffito****S1C7.****Extrusion processing of sorghum grain (whole and decorticated) used as ingredients for breads, biscuits and arraw****Cheikh Ndiaye, Aminata Diouf, Abdoulaye Sène, Djibril Traoré, John Taylor, Bruce R. Hamaker****S1C8.****Synthesis and characterization of six new binuclear complexes of transition metals involving manganese, iron, cobalt, copper, nickel, and zinc with the ligand N'1,N'4-bis(1-(pyridine-2-yl)ethylidene)succinohydrazide****Gorgui Awa Seck, Mbossé Ndiaye Guèye, Farba Bouyagui Tamboura, Ibrahima Elhadji Thiam, Ousmane Diouf, Abdou Salam Sall and Mohamed Gaye**



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TUESDAY NOVEMBER 19TH, 2024ORAL COMMUNICATIONS - 2ND SESSION **ROOM Adansonia****CHEMISTRY AND HEALTH 1** S2C9 – S2C13

12:00 - 13:15

President:

➤ Prof. Latifa Latrous

S2C9.Physicochemical Analysis, Antifungal, Antimicrobial and Antiplasmodial Activities of *Azadirachta indica* and *Andrographis paniculate* Bitters obtained by fermentationGloria Ukalina Obuzor And Aniekan Enoch Uyoh

S2C10.Comparison of two methods for extracting total alkaloids from *Anogeissus leiocarpus* for antibacterial and antioxidant purposesAlioune Diouf¹ ; Mamadou Latyr Ndour¹ ; Dr. El Hadji Gorgui Diouf¹

S2C11.Flavone c-glycoside and a new tannin isolated from the leaves of *Neocarya macrophylla* (Sabine) prance (Chrysobalanaceae)Diara Diatta, Oumar Sambou, Philomène Akoua Yao-Kouassi, Isabelle Lachaise, Michael Rivard, Guata Yoro SY and Abdoulaye Gassama

S2C12.

Evaluation of the anti-HIV activity of triazenes

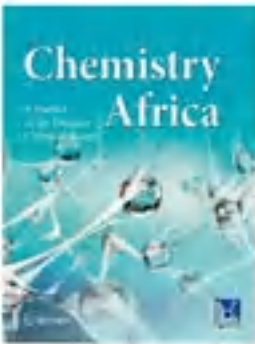
Seynabou Sokhna, Insa Seck, Samba Fama Ndoeye, Issa Samb, Marc Presset, Erwan Le Gall, Lionel Berthoux, Isabel Desgagné-Penix, Matar Seck

S2C13.Phytochemical screening and evaluation of the antioxidant ethanolic extract of *Vachellia seyal* Del root bark. (Fabaceae)Abdou Sarr, Serigne Ibra Mbacké Dieng, Cheikh Seye, Sette Badiane, Kady Diatta, William Diatta, Alioune Dior Fall

TUESDAY NOVEMBER 19TH, 2024**ORAL COMMUNICATIONS - 2ND SESSION ROOM *Digitata 1*****CHEMISTRY OF WATER AND ENVIRONMENTAL 1. S2C14 – S2C18 12:00 - 13:15****President:**

➤ Prof. Aliou Hamady Barry

S2C14.**Removal of the β -blocker bisoprolol fumarate from waters by the electro-Fenton treatment****Coumba Gueye, Lamine Cissé, Pape Abdoulaye Diaw, Olivier Maurice Aly Mbaye, Moussa Mbaye, Mame Diabou Gaye Seye, Jean-Jacques Aaron, Nihal Oturan, Mehmet A.Oturan*****S2C15.****Analysis of soil pollution by lead in automobile garages (mechanical and road) in Dakar****Ababacar Diouf, Mohamed Lamine Sall, Alassane Traoré, Diébel Dado Sall, Balla Fall, Abdou Karim Diagne Diaw, Modou Fall****S2C16.****Evaluation of organochlorine pesticides (DDT, DDE, Heptachlor, and Aldrin) in oysters of Soumbédioune beach (Dakar/Senegal) by GC/MSMS.****Cheikh Tidiane Dione, Sitor Diouf, Mame Mor Dione, Dame Cissé, Maoudo Hane, Ibrahima Diagne, Birame Ndiaye, Momar Ndiaye, Cheikhna Diébakaté, Maurice Millet, Abdoulaye Diop****S2C17.****Study of contamination by triazine herbicides in phosphate sludge storage basins, reclaimed as farmland in the Niayes area of Mboro (Senegal)****Mame Mor Dione, Sitor Diouf, Cheikh Tidiane Dione, Birame Ndiaye, Ibrahima Diagne, Dame Cisse, Maoudo Hane, Seydou Ba, Oussmane Ka, Modou Sarr, Momar Ndiaye****S2C18.****Differential pulse voltammetry ZDV biosensor based on silver nanoclay composites modified glassy carbon.****Sapokazi Timakwe, Mangaka C. Matoetoe1**



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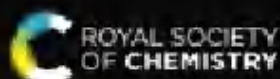
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TUESDAY NOVEMBER 19TH, 2024**ORAL COMMUNICATIONS - 3RD SESSION ROOM *Adansonia*****15:00 - 16:05****GREEN CHEMISTRY****S3C19 – S3C23****President:**

➤ Prof. Ousmane Diouf

S3C19.**Promoting Green chemistry in Africa for more Food Security and sustainable agriculture****Dogo Seck****S3C20.****Supramolecular solvent-based liquid phase microextraction of sulphonamides in tomato juice followed by high performance liquid chromatographic: Assessment of the Greenness Profile Using Analytical Eco-scale, AGREE, and AGREEprep.?****D. Moema, A.P. Jozela, T.A. Makwakwa, B.E. Gebreyohannes****S3C21.****(E)-4-arylidenedihydrofuran-2, 3-diones and (E)-1-benzyl-4-arylidene pyrrolidine-2,3-diones as new electrophiles in enantioselective organocatalyzed Michael additions****Mouhamadou Fofana, Yohan Dudognon, Laura Bertrand, Xavier Bugaut, Damien Bonne, Ibrahima Ndiaye, Jean Rodriguez and Thierry Constantieux****S3C22.****Application of green adsorbent in the removal of malachite green from wastewater: Isotherm, kinetics, and toxicity studies*****Aderibigbe, D.O., Giwa, A. A. and Bello, I. A.****S3C23.****Plant Nanofactory: Toward green synthesis of inorganic nanoparticles****Yann Aman**

TUESDAY NOVEMBER 19TH, 2024**ORAL COMMUNICATIONS - 3RD SESSION ROOM *Digitata 1*****15:00 - 16:05****CHEMISTRY OF WATER AND ENVIRONMENTAL 2****S3C24 – S3C29****President:**➤ **Prof. Emmanuel Ngameni****S3C24.****Efficiency of wastewater treatment plants to remove micropollutants in Durban, South Africa****Bice Martincigh****S3C25.****Enhancing Water Resources and Sustainability through Membrane-Based Water Pretreatment using novel flat and tubular microfiltration ceramic membranes made from Moroccan red clay****A. Ezzahi, M. Bouhria and A. Aaddane****S3C26.****Evaluation of the use and management practices of fertilizers and pesticides by farmers in the municipality of Sadio (Senegal)****Dame Cissé, Birame Ndiaye, Momar Ndiaye, Ibrahima Diagne, Cheikh Tidiane Dione, Maoudo Hane. Seydou Ba, Mamadou Sarr****S3C27.****Studies, characterization of Mauritanian clays for their use as natural membranes for water treatment****Cheikh Ahmed Babe, Ousseynou M'bodj, Mohamed S. Kankou, El Mostapha Lotfi, Mohammed El Mahi****S3C28.****Direct spectrofluorimetric method for analysis of bifenthrin and resmethrin in Senegalese surface and groundwater****Diène Diégane Thiaré, Philippe Giamarchi, Atanasse Coly****S3C29.****Synthesis, Spectroscopic, Characterization and X-ray Structures of Lanthanide(III) Complexes derived from 1,5-bis (phenyl(pyridin-2-yl)methylene)carbonohydrazide.****Mbossé Ndiaye-Gueye, Amadou Gueye, Papa Samba Camara, Sofia Zazouli, Farba Bouyagui Tamboura, Ousmane Diouf, Nathalie Gruber and Mohamed Gaye,**



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WEDNESDAY NOVEMBER 20TH, 2024ORAL COMMUNICATIONS - 4TH SESSION ROOM *Digitata 1*CHEMISTRY AND HEALTH 2

S4C30 – S4C33

8:30 - 9:50

President:

- Prof. Momar Ndiaye

S4C30.

Isolation and antimicrobial activities of a novel discolornolide and other compounds from *Monanthotaxis discolor*

Dominic P. Sumary, Clarence A. Mgina and Cosam C. Joseph

S4C31.

Optimization of extraction conditions by the dosage of polyphenols and determination of antioxidant activity: case of *Melothria maderaspatana* organs, a plant used in traditional African medicine for the treatment of diabetes

Bédié Mbow, Mame Coumba Diop, Aïssatou Alioune Gaye

S4C32.

Anti-hyperglycemiant effect of Schiff base imine derivatives

Charlot Diatta, Abdoulaye Diatta, Fatimata Seydy Ball, ¹Yancoba Cheikh diedhiou, El Hadji Dione, Mouhamadou Thiam, Faty Keita, Abdoulaye Gassama, Mbaye Sene, Mbaye Diagne, Guata Yoro Sy

S4C33.

Rapid identification of anti-oxidants in ethanolic and aqueous extracts of mangrove trees from Senegal using UHPLC coupled on-line to nanoESI-HRMS/MS and DPPH-based assay

C. Gaye, Y. Tine, D. Fall, E. Garayev, A. Bousquet-Mélou, & B. Baghdikian

WEDNESDAY NOVEMBER 20TH, 2024ORAL COMMUNICATIONS - 4TH SESSION ROOM *Digitata 1*CHEMISTRY OF WATER AND ENVIRONMENTAL 3

S4C34 – S4C38

8:30 - 9:50

President:

➤ Prof. Courfia Kéba Diawara

S4C34.

Preparation and characterization of activated carbon using agricultural wastes (corn cobs)

Adeoye F.A*, Ayinla A.A, Odujebe, F.O. and Aderibigbe, S.A.

S4C35.

Synthesis of new polyanilines doped with ionic liquids for the elimination of heavy metals by electrodialysis technic

El Hadji Dièye, Alioune Fall, Modou Fall*, Carlos Arthur Ferreira, Mauro R.S. Silveira, Alessandra F. Baldissera

S4C36.

Effects of Coagulation and Ozonation Pretreatments on Biochemical Treatment of Fluid Catalytic Cracking Wastewater

Ibrah Landi Ali*, Lu Jun

S4C37.

Optimized process for the fabrication of laser-scribed porous graphene electrodes for the simultaneous sensing of heavy metal ions

Ismaila Diédhiou, Amal Raouafi, Sabrine Baachaoui, Modou Fall, Abdulhadi H. Almarri, and Nouredine Raouafi*

S4C38.

Development of a novel trimethoprim vanillin embedded conjugate imprinted polymers for dyes removal from aqueous medium: Equilibrium, kinetics, modeling and thermodynamics study

Kehinde Awokoya*, Vincent Oninla, Tunmise Eugene-Osoikhia Uloma Njionye, Aderonke Okoya, Gbadebo Adeyinka, and Odor Chioma

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WEDNESDAY NOVEMBER 20TH, 2024

ORAL COMMUNICATIONS - 5TH SESSION **ROOM Adansonia**

ELECTROCHEMISTRY AND NANOTECHNOLOGY S5C39 – S5C45 10:40 - 12:05

President: Prof. Neil Coville

S5C39.

Electrocatalysts Based On Conducting Polymers And Metal Oxide: What are the opportunities for the future?

Mama El Rhazi*, Anas El Attar, Ouissal Salhi, Benhiba Saad

S5C40.

Ultra-sensitive electrochemical detection of Caffeic acid at Ionic liquid functionalized halloysite modified glassy carbon electrode

C. D. Mbiagaing,* G. K. Dedzo, E. Ngameni

S5C41.

Facile electrosynthesis of titania nanotubes incorporated binary NiMn₂O₄ as supercapacitor electrode for sustainable energy storage.

Muhammad Muhammad Muzakir , Zulkarnain Zainal, Hong Ngee Lim and Abdul Halim Abdullah

S5C42.

Reversible dimerization of anion radicals of carbonyl compounds and the electrosynthesis of pinacols. The case of 9-fluorenone.

Arona Ngom, Mamadou Dieng, Diariatou Gningue-Sall, Viatcheslav Jouikov, Andrey S. Mendkovich

S5C43.

Electrochemical sensor based on a CNT/MoS₂/Fe₂O₃ material modified glassy carbon electrode (GCE) and application to the sensitive detection of Hg²⁺ ions in tap water.

Balla Fall, Diébel Dado Sall, Ababacar Diouf, Abdou Karim Diagne Diaw, Modou Fall

S5C44.

Amperometric nonenzymatic determination of glucose via a glassy carbon electrode supported with carbon nanotubes, molybdenum disulfide nanocomposite and nickel nanoparticle.

Diebel D. Sall, Balla Fall, John S. Lomas, Modou Fall, Abdou Karim D. Diaw, Miryana Hemadi

S5C45.

Synthesis and characterization of electrochemical properties of a new gel polymer electrolyte for energy storage device applications

Ablaye SOUNG *, Guédj DIONE *, Modou FALL *, Hyacinthe RANDRIAMAHAZAKA **

WEDNESDAY NOVEMBER 20TH, 2024ORAL COMMUNICATIONS - 5TH SESSION ROOM *Digitata 1*CHEMISTRY AND HEALTH 3 S5C46 – S5C51

10:40 - 12:05

President:

➤ Prof. Cheikh Abdoul Khadir Diop

S5C46.

Towards total synthesis of amphidinolide U

Ciss Ismaila, Samba Ndoeye, Moussa Ndao, Seynabou Sokhna, Insa Seck, Laurent Ferrié, Seck Matar, Figadère Bruno

S5C47.

Ethnobotanic survey of aids opportunistic infections in the Ziguinchor district, Senegal

Kady Diatta*, William Diatta, Abdou Sarr, Serigne Ibra Mbacké Dieng, Amadou Ibrahima Mbaye, Idrissa Manga, Marie Léa Kabou, Alioune Dior Fall

S5C48.Isolation, characterization and evaluation of the antimicrobial activity of three new molecules from *Carapa procera* seedsMoussa Ndao, Samba Fama Ndoeye, Ismaila Ciss, Seynabou Sokhna, Abda Ba, Lalla Aicha Ba, Insa Seck, Mehdi Beniddir and Matar Seck

S5C49.

Quality assessment of honey samples sold on Dakar market

Rokhaya Gueye, Robert Faomowe Foko, Cheikh Diop, Moustapha Thiam, Aly Samb, Harouna Tirera, Elhadji Ousmane Faye, Amadou Diop, Serigne Omar Sarr, Bara Ndiaye, Yérin Mbagnick Diop

S5C50.Physico-chemical characterization, by theoretical methods, of mycolactone A/B, infectious factor of *Mycobacterium ulcerans*, agent of Buruli ulcerKadjo François Kassi, Nahossé Ziao

S5C51.Ibuprofen adsorption using *Discorea bulbifera* derived chars– experimental and DFT study.Precious C. Nnaji*, Edith C. Unoka, Refilwe Matshitse, Adeyemi A. Oladipupo, Olubanke O. Ogunlana, Nnaemeka Nnaji*



FEDERATION OF AFRICAN SOCIETIES OF CHEMISTRY (FASC)

OBJECTIVES

1. to promote and maintain effective communication throughout the community of chemists and chemical scientists in Africa.
2. to promote collaborative activity among member societies and among the individual members of these societies.
3. to maintain and promote high professional, educational and ethical standards.
4. to disseminate chemical knowledge.
5. to act in an advisory, consultative and representative capacity in relation to African institutions and regional initiatives.
6. to promote cooperation with other international organizations and similar regional and international networks

WHAT DOES FASC DO?

1. FASC currently produces the African Journal of Chemical Education (Editor: Dr Engida, Ethiopia; temechegne@faschem.org) To submit to the journal is free.
2. FASC is coordinating the Atlantic Basin Conference (ABC) on Chemistry in Morocco (December 2022 (Chair: Prof Mamia el Rhazi, FASC President)
3. FASC has a General Assembly every two years that rotates around the African continent. The next one will be held in collaboration with the ABC event (Organisers: Tunisia)
4. FASC has a web site <https://faschem.co.za/> to inform of all FASC activities. Free to members.
5. FASC has recently produced a dedicated volume on chemical research, in Frontiers in Chemistry, to celebrate its 15th Anniversary.
6. FASC is a member of IUPAC
7. FASC produces a monthly newsletter to distribute news and events to all FASC members and societies. Free to members.
8. FASC, with the financial support of the RSC supports young African chemists to attend conferences
9. FASC members work closely with PACN
10. FASC works with the RSC, ACS and IUPAC seeking support for African chemists
11. FASC will be introducing web seminars for members

APPLY FOR MEMBERSHIP

Individual membership in FASC: This is allowed for any individual member of a Chemistry Society operating in Africa. Where no Society is operating in a country, the FASC Executive will evaluate the application. Young affiliate member: Any students studying for a postgraduate degree in Chemistry or an allied area at an African University can become a Young affiliate member. A requirement is that they belong to a Chemical Society in Africa. Where no Society is operating in a country, the FASC Executive will evaluate the application.

<https://faschem.co.za/apply-for-membership/>

<https://faschem.co.za/apply-for-society/>

WEDNESDAY NOVEMBER 20TH, 2024**15:00 - 16:25****ORAL COMMUNICATIONS - 6TH SESSION ROOM *Adansonia*****S6C52 – S6C57****CHEMISTRY OF WATER AND ENVIRONMENTAL 4/ CHEMICAL SAFETY AND SECURITY****Presidents:**

➤ Prof. Ziao Nahossé

S6C52.

Improved Safety and Security in the Chemistry Labs: Results and Actions implemented at The Faculty of Sciences of Tunis

Hatem Ben Romdhane**S6C53.**Synthesis and Characterization of Composite ($\text{Zn}_{0.3}\text{Mg}_{0.7}\text{Fe}_2\text{O}_4@\text{PPy}$): Use for the elimination of Chromium (VI) in water by the adsorption methodModou Gningue Diop, Mamadou Gueye, Momath Lo, Pape Mor Cissé, Mouhamadou A Diallo and Makhtar Guène**S6C54.**Chemical investigation of the marine sponge *Diplastrella* spMohamet DIOP*, Abou Moussa SOW, Mouhamadou FOFANA**S6C55.**

Synthesis of CaO Nanoparticles from Periwinkle Shell and application in adsorption and photocatalysis for the Removal of Tetracycline (TCN) from Water

Nnabuk Okon Eddy**S6C56.**

Structural features and DNA binding ability of SBA-15 nanostructured silica containing amino acids grafted with vanadocene complexes.

Michael Aondona Iorhemba*, Diana Díaz-García, Victoria García-Almodóvar, Sulaiman Ola Idris, Gideon Adamu Shallangwa, Ibrahim Abdulkadir, José M. Méndez-Arriaga, Sanjiv Prashar, Santiago Gómez-Ruiz*.**S6C57.**

Study of the contamination of oysters from the beach of Soumbédioune /Dakar/Senegal by PCBs 123, 167 and 189, by GC-MS/MS

Sitor Diouf, Mame Mor Dione, Cheikh Tidiane Dione, Birame Ndiaye, Ibrahima Diagne, Dame Cisse, Maoudo Hane, Momar Ndiaye, Cheikhna Diebakate, Seydou Ba, Ousmane Ka, Mamadou Saar, Abdoulaye Diop.

WEDNESDAY NOVEMBER 20TH, 2024ORAL COMMUNICATIONS - 6TH SESSION **ROOM *Digitata 1*****SUSTAINABLE MATERIALS OF CHEMISTRY****S6C59 – S6C63****15:00 - 16:25****President:**

➤ Prof. Aziz Amine

S6C58.**Bioinspired Surfaces Displaying High Hydrophobicity and Strong Water Adhesion****Abdoulaye Dramé**, Elhadj Y Thiam, Salif Sow, Omar Thiam, Diawo Diallo, Thierry Darmanin, Frédéric Guittard.

S6C59.**Zinc oxide Nanomaterials: Synthesis and Application to wastewater depollution.****Aichata Kane**, Aliou Hamady BARRY.

S6C60.**Soft-template electropolymerization from triphenylamine-based monomers: From vertically aligned nanotubes to nanomembranes.****Alioune Diouf**, Khady Diouf, Pape Diène Dione, Frédéric Guittard, and Thierry Darmanin.

S6C61.**Synthesis of highly luminescent N, P co-doped carbon dots: characterization and application in sensitive and selective fluorescence determination of Hg(II) in complex samples.****Amidou Tall**, Marília O. Fonseca Goulart, Issa Tapsoba, Josué C. Caldas Santos.

S6C62.**Screening of series of hybrid perovskites for the development of light-emitting diodes.****Antoine Blaise Kama**, Mamadou Sidibé, Cheikh A.K. Diop, Romain Gautier

S6C63.**Contribution to the development of attapulgite as a cement substitute in reinforced concrete.****Malang Bodian**, Dame Keinde, El-Hadji Dieye, Kinda Hannawi, Modou Fall and Aveline Darquennes.

ARP "Pour une Réglementation Pharmaceutique Stable et Efficace au Sénégal"

Au regard de l'urgence d'un accès amélioré à des produits de santé de qualité, sûrs, efficaces et abordables, ainsi que de l'industrialisation durable du secteur pharmaceutique, notamment pour les vaccins, le Sénégal s'est engagé dans une dynamique de relance de l'industrie pharmaceutique. Cet engagement vise à atteindre une souveraineté pharmaceutique de 50 % d'ici 2035.

L'atteinte de ce résultat est essentielle pour aligner le Sénégal sur les Objectifs de Développement Durable, notamment l'accès à des médicaments et vaccins essentiels, sûrs, de qualité et abordables. Cela nécessite un renforcement significatif du système de réglementation pharmaceutique, à travers l'Agence Sénégalaise de Réglementation Pharmaceutique (ARP).

L'ARP résulte d'une fusion entre deux structures du Ministère de la Santé et de l'action Sociale, la Direction de la Pharmacie et du Médicament (DPM) et le Laboratoire National de Contrôle des Médicaments (LNCM) et ses missions sont dévolues des leurs.

L'ARP a pour missions entre autre de :

- Mettre en œuvre les fonctions réglementaires dans le cadre de la politique pharmaceutique nationale ;
- Contrôler le secteur pharmaceutique ;
- Veiller au respect des lois et règlements dans les domaines relevant de sa compétence ;
- Elaborer les projets de texte ;
- Veiller à l'application des dispositions législatives et réglementaires régissant les domaines suivants : la pharmacie, le médicament et les autres produits de santé, notamment les vaccins, les établissements pharmaceutiques, les laboratoires d'analyse de biologie médicale, les laboratoires d'essai et d'étalonnage et les essais cliniques.

Par ailleurs, l'Agence Sénégalaise de Réglementation Pharmaceutique (ARP) s'engage à atteindre le niveau de maturité 3 (NM3), un jalon clé dans l'harmonisation des normes internationales de régulation.

Le NM3 reconnu par l'Organisation Mondiale de la Santé (OMS) est essentiel pour garantir la qualité, la sécurité et l'efficacité des produits pharmaceutiques.

Le NM3 est aussi crucial pour lutter contre les médicaments de qualité inférieure ou falsifiés, renforcer la confiance des citoyens et assurer la sécurité sanitaire.

WEDNESDAY NOVEMBER 20TH, 2024ORAL COMMUNICATIONS - 7TH SESSION **ROOM Adansonia**

8:30 - 9:55

CHEMISTRY AND HEALTH AND SUSTAINABLE MATERIALS OF CHEMISTRY**President:****S7C64 – S7C69**➤ **Mama El Rhazi****S7C64.**

Mineral materials circularity to contribute to the energy transition technologies

Zenixole Tshentu**S7C65.**Enhanced performance by heteroatom-doped reduced graphene oxide-TiO₂-based nanocomposites as photoanodes in dye-sensitised solar cellsNonjabulo P. D. Ngidi, Edigar Muchuveni and Vincent O. Nyamori***S7C66.**

Optimization of operating parameters for the extraction of cellulose from millet husk.

Maryam Khadim Mbacké, Mouhamed Ndoeye, Mouhamadou Moustapha Sow.**S7C67.**Preparation of activated carbon from olive stones and modification of its characteristics by acids (H₃PO₄, HNO₃, H₂SO₄).Seydou Ba, Abdelrani Yaccoubi, Birame Ndiaye, Ibrahima Diagne, Maoudo Hane, Dame Cissé, Cheikh Tidiane Dione, Mame Mor Dione, Sitor Diouf, Momar Ndiaye.**S7C68.**

Contribution to the development of attapulgite as a cement substitute in reinforced concrete

Malang Bodian, Dame Keinde, El-Hadji Dieye, Kinda Hannawi, Modou Fall, Aveline Darquennes**S7C69.**

Modification of low molecular weight chitosan with African Arrow root Lilly starch and characterization of formed blend films as utility product

O. Ofoegbu, D. Ike, M. Iorhemba, and S. Udenyi

POSTERS

TUESDAY NOVEMBER 19TH, 2024

16:05 - 16:35

POSTER – 1ST SESSION ROOM *Adansonia*

P1-1 – P1-14

Presidents

- Pr. Clarence Mgida
- Dr. Amine Ezzahi

P1-1.

Regioselective Amination of Porphyrins via Ring-Opening of Elec-trogenerated Pyridiniums Precursors

Abdou K. D. Dimé, Asmae Boushima, Julie Echaubard, Mathieu Bethelot, Amelle M. Mankou, Julien Roger, Charles H. Devillers

P1-2.

Assessing the quality of food salts consumed in Senegal

Adrienne Ndiolene, Tidiane Diop, Alassane Traore, Maguette Ndiaye, Mamadou Sidibe et Cheikh Abdoul Khadir Diop

P1-3.

Reversible dimerization of anion radicals of carbonyl compounds and the electrosynthesis of pinacols. The case of 9-fluorenone

Arona Ngom, Mamadou Dieng, Diariatou Gningue-Sall, Viatcheslav Jouikov, Andrey S. Mendkovich

P1-4.

Analysis for vitamin a, iron and iodine in commonly consumed foodstuffs in the Gambia

Bilkisu A. Jallow and Anayo Chris Etonihu

P1-5.

Determination of Total Mercury in Biota using Ultrasound assisted Tetramethylammonium Hydroxide digestion

Birame Ndiaye, Sitor Diouf, Mame Mor Dione, Cheikh Tidiane Dione, Ibrahima Diagne, Dame Cissé, Maoudo Hane, Seydou Ba, Momar Ndiaye, Mamadou Sarr, Ousmane Ka, Benita Pérez Cid

P1-6.

Modification and Characterization of blend films of African Arrow root Lilly starch and pleurotus tuberregium sclerotia as functional pharmaceutical excipient and tableting product

D. Ike, S. Udenyi, M. Iorhemba and O. Ofoegbu

P1-7.

Evaluation of mineral content and antioxidant activity of Detarium senegalense leaves extracts

Elhadji Ousmane FAYE*, Rokhaya GUEYE, Mamadou FAYE, Pape Issakha DIEYE, Thierno Mouhamed WANE, Harouna TIRERA, Kady DIATTA BADJI, Rokhaya SYLLA GUEYE³, Amadou DIOP, Serigne Omar SARR, Bara NDIAYE, Yérin Mbagnick DIOP

P1-8.

Anti-Hyperglycemic Effect Of Stilbenes Derived From Benzaldehyde And Anthraldehyde

¹BALL Fatimata Seydy, ¹DIATTA Charlot, ²MANSALY Malamine, ¹DIATTA Lionel, ²SAMBOU Oumar, ²DIALLO Ramata Ousmane, ¹DIONE El Hadji, ¹THIAM Mouhamadou, ¹KEITA Faty, ¹DIEDHIOU Yancoba Cheikh, ³RIVARD Michael, ²GASSAMA Abdoulaye, ¹SY Guata Yoro

P1-9.

Design and total synthesis of photoactivatable latrunculin B

Ismaila Ciss, Antoine Gamet, Benjamin Joyeux, Bastien Nay

P1-10.

Part of melissopalynology in the labeling of Casamance honeys

Kady Diatta^{1,2}, *, Marie José Battesti³, William Diatta^{1,2}, Serigne Ibra Mbacké Dieng¹, Abdou Sarr, Amadou Ibrahima Mbaye¹, Marie Léa Kabou¹, Alioune Dior Fall^{1,2}

P1-11.

Comparative study of groundwater potability in the commune of Sinthiou maléme in the Tambacounda region and the industrial zone of Mboro (Senegal)

Maoudo Hane, Mame Mor Dione, Cheikh Tidiane Dione, Birame Ndiaye, Ibrahima Diagne, Dame Cisse, Seydou Ba, Sitor Diouf, Oussmane Ka, Modou Sarr, Momar Ndiaye

P1-12.

Synthesis, characterization, and identification of five new mononuclear transition metal complexes involving manganese, cobalt, copper, nickel, and zinc with the ligand 1,3-bis-((5-methyl-1H-imidazol-4-yl) methyleneamino)propan-2-ol)

Gorgui Awa Seck, Mbossé Ndiaye Guèye, Farba Bouyagui Tamboura, Ibrahima Elhadji Thiam, Ousmane Diouf, Abdou Salam Sall and Mohamed Gaye

WEDNESDAY NOVEMBER 20TH, 2024

16:25 - 16:55

POSTER – 2ND SESSION

ROOM *Adansonia*

P2-13 – P2-24

Presidents

- Prof. Issa Tapsoba
 - D. Shimaa Heikal

P1-13.

Coordination of the N and O atoms (donors) of the Schiff base ligand N, N'-bis (3-Methoxy Salicylidenimino-1, 3-diaminopropane) with Nickel (II), Copper (II) and Zinc (II): Syntheses, Crystal structure

Mbossé Ndiaye Guèye, Moussa Faye, Mariama Sarr, Farba Bouyagui Tamboura, Ibrahima Elhadj Thiam, Simon Coles, James Orton, Moussa Dieng and Mohamed Gaye

P1-14.

Ladder-like Organostannoxane: Synthesis and Crystal Structure of the Second Polymorph $\{[(C_6H_5)_2Sn]_2[(C_6H_5)_2ClSn]_2(\mu_3-O)_2(\mu_2-OH)_2\} \cdot [DMF]_2$
SARR Modou, DIASSE-SARR Aminata, DIOP Libasse

P1-15.

Biochar based on date grains for removal of hexavalent chromium in solution

Bouré DIOUF, Mohamed Lamine SALL, Ababacar DIOUF, Abdou Karim Diagne DIAW, Diariatou GNINGUE-SALL

P1-16.

Electrochemical assisted deposition of thin silica film on ITO modified by diazonium salt for conductive polypyrroles sensor of parathion

Momath Lo^{*}, Dame Seye, Mohamed Lamine Sall, Mamadou Gueye, Balla Fall¹, Arvid Kumar Bakta, Sébastien Vivegnis, Zineb Mekhalif, Mohamed M. Chehimi^{*}

P1-17.

Analgesic and Anti-Inflammatory Properties of Structural Analogs of 4-Aminopiperidine-Phenoxy Derivatives

THIAM Mouhamadou, SECK Rokhaya, DIATTA Charlot, SAMBOU Oumar, CAMARA Mamadou Fodé, DIONE El Hadji, BALL Fatimata Seydy, KEITA Faty, GASSAMA Abdoulaye, SY Guata Yoro

P1-18.

Synthesis and characterization of thiourea derivatives for the preparation of complexes for therapeutic purposes

Nango Gaye, Ngoné Diouf, Rokhaya Sylla Gueye and Ibrahima El Hadji Thiam

P1-19.

Study of the distribution of the azadirachtin-A (Aza-A) molecule in neem seed (*Azadirachta indica* A. Juss)

Ndiak NDIAYE, Virginie HERAN, Jean-Luc PARRAIN, Bocar Sally GALLEDU

P1-20.

Simultaneous determination of naproxen and ibuprofen by synchronous fluorescence spectroscopy (SFS) in cyclodextrin and micellar media

Jean Marie Diéne Bakhom, Olivier Maurice Aly Mbaye^{*}, Jean Pierre Bakhom, Mame Diabou Gaye-Seye, Clément Trelu, Atanasse Coly, Jean-Jacques Aaron^b

P1-21.

Spectrofluorimetric determination of tyramine in fish products

NDIONE Papa Adama, KITAL Khémessse, MBAYE Moussa, NDIONE Latyr, CISSE Lamine, SARR Serigne Omar, FALL Djibril, COLY Atanasse, TINE Alphonse, Delattre François

P1-22.

Antimicrobial and anticancer activities of diazenyl compounds

Seynabou SOKHNA, Insa SECK, Eric HUET Samba Fama NDOYE, Issa SAMB, Marc PRESSET, Erwan LE GALL, Matar SECK

P1-23.

Effects of hydrocolloids (Arabic and Maltodextrin gums) on the production of fast millet rolled flour "Arraw"

Abdoulaye Sène^{1,3}, Cheikh Ndiaye¹, Djibril Traore¹, Bruce Hamaker², Matar Seck³

P1-24.

12 years of experimentation with the XLE membrane for the partial elimination of fluoride and salinity on a community scale

DIALLO M.A, DIOP S.N, DIEME M. M, DIAWARA C.K

