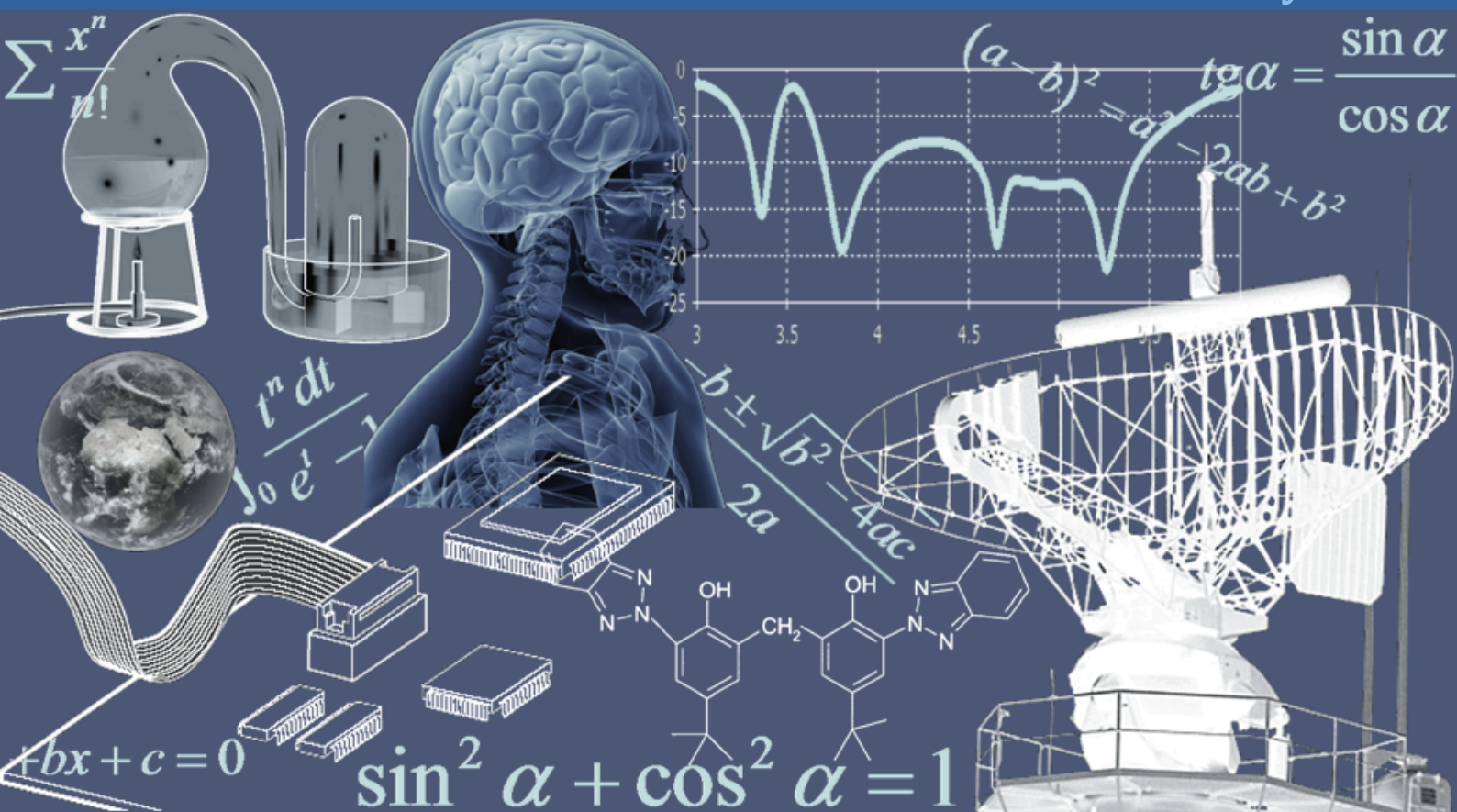


# INTERNATIONAL JOURNAL OF INNOVATION AND APPLIED STUDIES

Vol. 28 N. 3 February 2020



International Peer Reviewed Monthly Journal



## ***International Journal of Innovation and Applied Studies***

International Journal of Innovation and Applied Studies (ISSN: 2028-9324) is a peer reviewed multidisciplinary international journal publishing original and high-quality articles covering a wide range of topics in engineering, science and technology. IJIAS is an open access journal that publishes papers submitted in English, French and Spanish. The journal aims to give its contribution for enhancement of research studies and be a recognized forum attracting authors and audiences from both the academic and industrial communities interested in state-of-the art research activities in innovation and applied science areas, which cover topics including (but not limited to):

Agricultural and Biological Sciences, Arts and Humanities, Biochemistry, Genetics and Molecular Biology, Business, Management and Accounting, Chemical Engineering, Chemistry, Computer Science, Decision Sciences, Dentistry, Earth and Planetary Sciences, Economics, Econometrics and Finance, Energy, Engineering, Environmental Science, Health Professions, Immunology and Microbiology, Materials Science, Mathematics, Medicine, Neuroscience, Nursing, Pharmacology, Toxicology and Pharmaceuticals, Physics and Astronomy, Psychology, Social Sciences, Veterinary.

IJIAS hopes that Researchers, Graduate students, Developers, Professionals and others would make use of this journal publication for the development of innovation and scientific research. Contributions should not have been previously published nor be currently under consideration for publication elsewhere. All research articles, review articles, short communications and technical notes are pre-reviewed by the editor, and if appropriate, sent for blind peer review.

Accepted papers are available freely with online full-text content upon receiving the final versions, and will be indexed at major academic databases.

## ***Editorial Advisory Board***

**Amir Samimi**, Islamic Azad University, Iran  
**Mahsa Ja'fari**, Department of Chemical Engineering, Abadan Faculty of Petroleum, Petroleum University of Technology, Abadan, Iran  
**Alin Velea**, Paul Scherrer Institute, Switzerland  
**Kamyar Hasanzadeh**, Aalto University, Finland  
**Ogbonnaya N. Chidibere**, University of East Anglia, United Kingdom  
**Oumair Naseer**, University of Warwick, United Kingdom  
**Wei Zheng**, University of Texas Health Science Center at San Antonio, USA  
**Hu Zhao**, University of Southern California, USA  
**Haijian Shi**, Kal Krishnan Consulting Services, Inc, USA  
**Syed Ainul Abideen**, University of Bergen, Norway  
**Fabio De Felice**, University of Cassino and Southern Lazio, Italy  
**Giovanni Leonardi**, Mediterranea University of Reggio Calabria, Italy  
**Siham El Gouzi**, Instituto Andaluz de Ciencias de la Tierra, Spain  
**Mohamed KOSSAÏ**, European Business School EBS Paris, France  
**Mustafa Batuhan AYHAN**, Marmara University, Turkey  
**Andrzej Klimczuk**, Warsaw School of Economics, Poland  
**Corinthias P. M. Sianipar**, Tokyo University of Science, Japan  
**Irfan Jamil**, Sinohydro Engineering, China  
**Sukumar Senthilkumar**, Chonbuk National University, South Korea  
**Bratu (Simionescu) Mihaela**, Bucharest University of Economic Studies, Romania  
**Mirela Maria Codescu**, National Institute for R&D in Electrical Engineering ICPE-CA, Romania  
**Milen Zamfirov**, St. Kliment Ohridski Sofia University, Bulgaria  
**Svetoslava Saeva**, Neofit Rilski South-West University, Bulgaria  
**Dimitris Kavrouidakis**, University of the Aegean, Greece  
**Vaitsa Giannouli**, Aristotle University of Thessaloniki, Greece  
**Nataša Pomazalová**, Mendel University in Brno, Czech Republic  
**Hazem M. Shaheen**, Damanhour University, Egypt  
**Shalini Jain**, Manipal University Jaipur, India  
**Amin Jula**, National University of Malaysia, Malaysia  
**Mahdi Moharrampour**, Islamic Azad University, Buin zahra Branch, Iran  
**Ricardo Rodriguez**, Technological University of Ciudad Juarez, Mexico  
**Yuniel E. Proenza Arias**, Universidad de las Ciencias Informáticas, Cuba  
**Elizabeth Bissell Miller**, University of Missouri, Columbia  
**Bertin Désiré SOH FOTSING**, University of Dschang, Cameroon  
**Antonella Petrillo**, University of Cassino and Southern Lazio, Italy  
**Hong Zhao**, The Pennsylvania State University, USA  
**Jianjun Chen**, The University of Chicago, USA  
**Shaju George**, Royal University for Women, Kingdom of Bahrain  
**Chandrasekaran Subramaniam**, Kumaraguru College of Technology, India  
**Ilango Velchamy**, New Horizon College of Engineering, India  
**M. Kumaresan**, M.P.N.M.J. Engineering College, India  
**Mohammad Valipour**, University of Tehran, Iran  
**Mohameden Sidi El Vally**, King Khalid University, KSA  
**Mona Hedayat**, Boston Children's Hospital, Harvard Medical School, USA  
**Suresh Kumar Alla**, Advanced Medical Technologies, BD Technologies, USA  
**Ahmed Hashim Mohaisen Al-Yasari**, Babylon University, Iraq  
**Aziz Ibrahim Abdulla**, Tikrit University, Iraq  
**Khalid Mohammed Shaheen**, Technical College of Mosul, Iraq  
**Baskaran Kasi**, Kuala Lumpur Infrastructure University College, Malaysia  
**Nurul Fadly Habidin**, Universiti Pendidikan Sultan Idris, Malaysia  
**Adnan Riaz**, Allama Iqbal Open University, Pakistan  
**Syed Noor Ul Abideen**, KPK Agricultural University, Pakistan  
**Arab Karim**, M'Hammed Bougara University of Boumerdes, Algeria  
**Zoubir Dahmani**, UMAB University of Mostaganem, Algeria  
**Mohsen Brahmi**, Sfax University, Tunisia  
**Mongi Besbes**, University of Carthage, Tunisia  
**Mai S. Mabrouk**, Misr University for Science and Technology, Egypt  
**Olfat A Diab Kandil**, Misr University for Science and Technology, Egypt  
**Munir Ahmed G. Timol**, Veer Narmad South Gujarat University, India  
**Saravanan Vasudevan**, Arunai Engineering College, India



## Table of Contents

ETUDE DES PROFILS D'USAGERS DU CHANVRE DANS LA VILLE DE KINSHSA	592-599
<i><u>LUKAU MATEZO ESPOIR</u></i>	
Vers quel enseignement de l'oral à l'université marocaine ?	600-608
<i><u>Bouchra OUCHNID</u></i>	
CONSTRUCTION SOCIALE DE LA PAUVRETE ET DE LA VULNERABILITE DES PERSONNES HANDICAPEES A KORHOGO (CÔTE D'IVOIRE)	609-616
<i><u>Franck-Gautier GACHA, Tano Maxime ASSI, and Gbété Jean-Martin IRIGO</u></i>	
Etude des propriétés physicochimiques et de la qualité microbienne de matières premières à base d'écorces de tronc de khaya senegalensis A. Juss (Meliaceae) utilisées dans la production de crème et gel anti inflammatoires	617-629
<i><u>Salfó Ouédraogo, Jules Yoda, Lazare Belemnaba, Geoffroy G. Ouédraogo, Sylvain Ilboudo, Noufou Ouédraogo, Felix Kini, Marius Lompo, and Sylvain Ouédraogo</u></i>	
Spatial distribution and occurrence of terrestrial Gastropod Molluscs in the National Center of Floristic (NCF) of Abidjan, Côte d'Ivoire	630-639
<i><u>Kouassi Jérôme N'Dri, N'Dri Saint-Clair Amani, Kouadio Eugène Konan, Ahounou Ahué Florent Joseph KOFFI, and OTCHOUMOU Atcho</u></i>	
Le rationnement de crédit individuel des clients des Institutions de Micro finance de la République Démocratique du Congo: Cas de FINCA/Bukavu	640-651
<i><u>Joseph AKILIMALI NTERERWA, Jean-Jacques MULUMEODERHWA SHALUKOMA, Bonheur MURHULA LUSHEKE, and Patient BAHATI MUHAYANGABO</u></i>	
Croissance et exploitation de <i>Liza dumerili</i> (Steindachner, 1870), par l'utilisation des fréquences longueurs dans l'Aire Marine Protégée de Joal-Fadiouth au Sénégal	652-665
<i><u>Mamadou NDIAYE, Serigne Modou SARR, Malick DIOUF, and Abdoulaye Touré</u></i>	
La prévalence des infections de site opératoire au centre hospitalier provinciale Ibn Baja de Taza (Maroc) : Comparaison de 2 campagnes d'étude	666-673
<i><u>Rachid FLOUCHI, Abdelaziz HIBATTALLAH, Abderrahim ELMNIAL, Ibrahim TOUZANI, and Kawtar Fikri Benbrahim</u></i>	
Contribution to the analysis of employability development factors	674-681
<i><u>Bassoul Fatima Zohra, Faridi Mohamed, and Rafiq Souad</u></i>	
Evaluation de la couverture forestière et du stock de carbone forestier de la réserve scientifique de Lamto (Côte d'Ivoire)	682-689
<i><u>Nina GUEULOU, Kouakou Guy-Casimir DOUFFI, SORO Yenilougo, Moussa KONE, and BAKAYOKO Adama</u></i>	
Aplicaciones móviles y su impacto en las compras en supermercados	690-696
<i><u>César Espin Riofrio, Maritza Guerrero Yagual, and Mayra Calva Navarro</u></i>	
Le Changement Organisationnel : Etat de l'Art	697-710
<i><u>Mohammed Hadini, Mohamed Ben Ali, Said Rifai, Otmame Bouksour, and Ahmed Adri</u></i>	
Le Management de la Qualité Santé-Sécurité Environnement (QSSE) : Etat de l'Art	711-725
<i><u>Mohammed Hadini, Mohamed Ben Ali, Said Rifai, Otmame Bouksour, Ahmed Adri, and Mustapha Laafar</u></i>	
Le Concept de la Performance Industrielle : Etat de l'Art	726-739
<i><u>Mohammed Hadini, Mohamed Ben Ali, Said Rifai, Otmame Bouksour, and Ahmed Adri</u></i>	
La Conduite du Changement par la Démarche QSSE (Qualité Santé-Sécurité Environnement) en tant que levier de pilotage de la performance industrielle	740-755
<i><u>Mohammed Hadini, Mohamed Ben Ali, Said Rifai, Otmame Bouksour, Ahmed Adri, and Mustapha Laafar</u></i>	