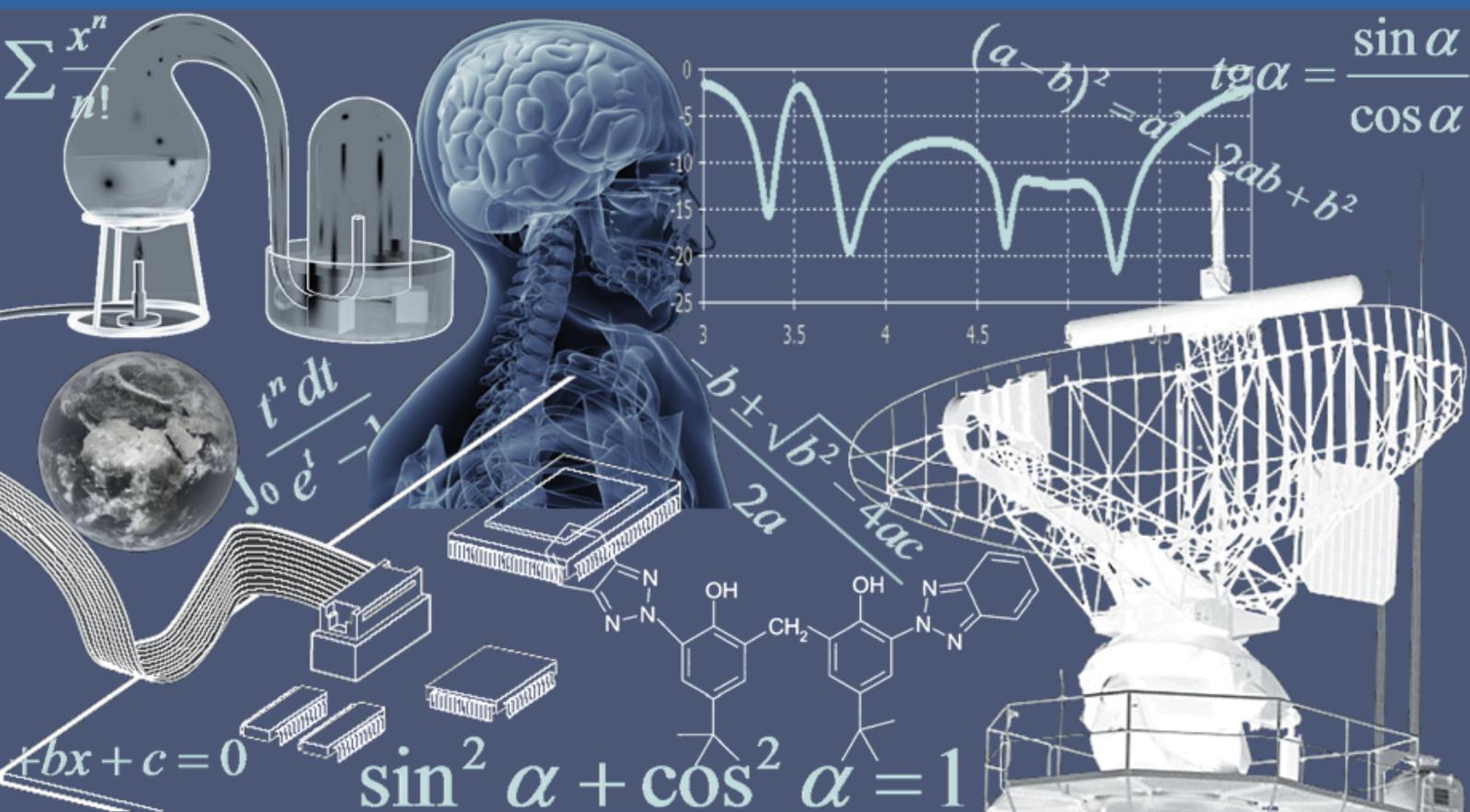


INTERNATIONAL JOURNAL OF INNOVATION AND APPLIED STUDIES

Vol. 31 N. 2 December 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, Ph.D. of Science in Chemical engineering, Process Engineer & Risk Specialist of Oil and Gas Refinery Company, 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 Kavroudakis, 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

Table of Contents

La Chine et le déploiement d'une diplomatie économique en Asie du Sud-Est: Enjeux et défis géopolitiques	79-92
<i><u>Ndabereye Nzita Mugambi Paulin and ETOYI ESELA Fidèle</u></i>	
Tourist development of heritage in Algeria: Case of the Hypone Site «Annaba»	93-102
<i><u>Sid Ahmed Soufiane</u></i>	
Impact de la température sur les déformations d'une chaussée en fibre de canne à sucre (Bagasse) dans du mélange bitumineux en modulation de fréquence	103-112
<i><u>Ndack Niang, Alassane Ba, Mamadou Lamine LO, Youssou TRAORE, Issa Diagne, Seydou Faye, and Grégoire SISSOKO</u></i>	
Groupes armés et défis de la consolidation de la paix en République Démocratique du Congo	113-126
<i><u>Ndabereye Nzita Mugambi Paulin and Murhura Iraqi Vital</u></i>	
Violence in the school environment and its pedagogical repercussions	127-136
<i><u>Abdelkhalek Touahar</u></i>	
Efficacité d'une pommade à base de Butyrospermum parkii et d'huile de Elæis guineensis sur la croissance pileaire chez des lapins	137-143
<i><u>KPOROU Kouassi Elisée, OUATTARA Sitapha, Gouedji Yabo Parfait, Kra Adou Mathieu, and Djaman Allico Joseph</u></i>	
Régénération in vivo par bouturage de fragments de tige de Ricinodendron heudelotii var. heudelotii (Baill) Pierre Ex Heckel à Daloa, Côte d'Ivoire	144-152
<i><u>Sopie Edwige-salomé Yapo, Manéhonon Martine Beugre, Dogniméton Soro, Jean Paul Ahoua Romeo Koffi, Tanoh Hilaire Kouakou, and Yatty Justin Kouadio</u></i>	
Creating Women's Clothing Accessories by Using Optical Fibers	153-175
<i><u>Raghad Abdullah Al-Attayah and Olfat Shawki Mohamed Mansour</u></i>	
Evaluation des éléments traces métalliques (ETM) des sols autour de la mine de Gbétogo à Séguéla, au Nord-Ouest de la Côte d'Ivoire	176-188
<i><u>Yao Kouman Nestor KOUAKOU, Gala Bi Trazié Jérémie, Justin Louis Kafana Coulibaly, and Ahou Clarisse Koffi</u></i>	
Caractérisation granulaire et valorisation des sables d'altération des massifs granitiques de la carrière d'exploitation artisanale de sable de Nepenet (Bafoussam Cameroun)	189-198
<i><u>Merveilles Nguéfack Ymefack, Clotaire Mwebi Ekengoue, Kossi Bollanigni Amey, Rodrigue Fotie Lele, Cherif Bishweka Biryondeke, and Armand Kagou Dongmo</u></i>	
Evaluation des performances des projets et programmes de développement rural au Cameroun	199-211
<i><u>Awe Baina Modeste, Manu Ibrahim Nformi, Easo Ondoa Angeline Martine, Tiwan Gildas, Daiwe Baina Seraphin, and Mai Godne Baina Hippolyte</u></i>	
Contribution pour une meilleure prise en charge énergétique du vitrage dans la construction de bâtiments à Dakar	212-222
<i><u>Lansana Sane, Biram Dieng, Papa Lat Tabara Sow, Senghane Mbodji, and Mamadou Wade</u></i>	
A situational analysis of ear and hearing care in the northwest region of Cameroon	223-238
<i><u>Louis Mbibeh, Lynn Cockburn, and Awa Jacques Chirac</u></i>	
The Strategic Planning of tourists' sites to make local development with using GIS. Case study: TEBESSA City	239-248
<i><u>Mohammed Tayeb DJABRI and Ahmed Bousmaha</u></i>	
Gestion intégrée des ordures ménagères dans le District d'Abidjan en Côte d'Ivoire: Cas des communes de Port-Bouët et Treichville	249-257
<i><u>Elisée Napari Yeo, Sylvain Kouakou AKPO, Clarisse Lydie Amenan Allali-Mangoua, and Romuald Aymard Gobby Amani</u></i>	
Profitability of vegetable marketing in Ghana: The case of urban and semi-urban marketers in the Upper West Region	258-266
<i><u>Moomin Abu, Issah Kpamealuu Mohammed, and Benjamin Tetteh Anang</u></i>	
La medersa traditionnelle au Maroc: De la forme à la nouvelle réforme	267-276
<i><u>Rachid El Alaoui</u></i>	
Analyse de l'utilisation des énergies domestiques en République Démocratique du Congo (RDC): Mécanisme de mutation vers la « butanisation » dans la cuisson des aliments comme énergie principale	277-289

<i>Phanzu Malango Alexis Daddy, Bifubiambote Salambiaku Giresse, and Charles Kinkela Savy</i>	
Evaluation du niveau de radioprotection des personnes travaillant dans l'artisanat minier: Cas du site miniers de Twilizembe	290-300
<i>Patrick MBWEB KATSHIL and Robert LWAMBA ILONDA</i>	
Étude des facteurs de risques de rayonnements ionisants sur les personnes travaillants dans les sites miniers artisanaux : Cas de l'ancien site Musompo	301-315
<i>Robert LWAMBA ILONDA and Patrick MBWEB KATSHIL</i>	
Le déploiement de la fonction qualité pour une amélioration de la formation des ingénieurs en génie mécanique	316-327
<i>Zineb AIT HADDOUCHANE, Souad AJANA, Soumia BAKKALI, and Imane ZERGOUT</i>	
Relation longueur-poids et facteur de condition de <i>Parailia pellucida</i> (Boulenger, 1901) (Piscès, Schilbeidae) au lac de barrage de Taabo (Bandama, Côte d'Ivoire)	328-335
<i>K. Kamagaté, K. Ahoutou, K. S. Da Costa, and Y. Kouakou</i>	
Impact of degradation on the above-ground biomass of plants composing the shrub layer of Djebel Zaghouan	336-350
<i>Sana Dallali, Hanen Bouraoui, Rabiaa Mouhbi, Ikbel Zaouaoui, Foued Hasnaoui, and Lamjed Toumi</i>	
Impact of personality, human capital, and environmental influences on students' entrepreneurial potential: The case of I. T. Management and Business Administration final year students of UPSA, Ghana	351-369
<i>Godfred Yaw Koi-Akrofi, Henry Akwetey Matey, Frank Banaseka, and Samuel Chris Quist</i>	
Dynamique spatio-temporelle de l'occupation du sol et du couvert végétal des parcs arborés du Département de la Nya, Sud du Tchad	370-379
<i>Hervé Mbayetom, Marie Louise Avana Tientcheu, Martin Tchamba Nqankam, Junior Baudoin Wouokoue Taffo, and Armand Delanot Tanougong</i>	