

INTERNATIONAL JOURNAL OF INNOVATION AND APPLIED STUDIES

Vol. 9 N. 1 November 2014



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
Malika Maataoui, Mohammed V University, Morocco
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
Saravanan Vasudevan, Arunai Engineering College, India

Table of Contents

INNOVATION REVIEW: Closed, Open, Collaborative, Disruptive, Inclusive, Nested... and soon Reverse. How about the Metrics: Dream and Reality	1-28
<i>Mirosława Lapray and Serge Rebouillat</i>	
Dielectric properties of ZnS filled polystyrene nanoparticles	29-36
<i>H. Ezzaier, Regis Guegan, Fabric Muller, M. Ben Haj Amara, and H. Ben Rhaïem</i>	
Les effets de la proximité sur les relations technologiques - Une identification de la relation à l'aide de l'économétrie des données de Panel: Le cas des entreprises françaises	37-52
<i>Ahmed Lakssissar</i>	
Management of individual expatriation: Case of the academics expatriates in France	53-59
<i>Asma Ayari-Gharbi, Dominique Besson, and Zeineb Ben Ammar Mamlouk</i>	
Analyzing an Inspector-Teacher's Discourse from the Critical Discourse Analysis Perspective	60-71
<i>Rashad Fairouz and Dr. Zahra Al-Saqqaf</i>	
Synthesis of exfoliated polystyrene/SWY-Na nanocomposite by emulsion polymerization using a chloride of cétylpyridinium and dielectric proprieties	72-80
<i>H. Ezzaier, Regis Guegan, Amel Imayai, Marwa Glid, Atef Riahi, A. Ben Haj Amara, Fabric Muller, and H. Ben Rhaïem</i>	
Conodontes du Carbonifère inférieur de la région de l'Oued Cherrat (Meseta nord-occidentale, Maroc)	81-88
<i>Amal Neqqazi, Mohamed Raji, and El Mostafa Benfrika</i>	
Effect of heat treatment on optical properties of Cadmium Zinc Telluride thin films grown by cathodic radiofrequency sputtering	89-94
<i>Y. El gabbas, H. Bellakhder, M.A. El idrissi Raghni, and A. Outzourhit</i>	
Improvement of Fetal Electrocardiogram Extraction by Application of Fuzzy Adaptive Resonance Theory to Adaptive Neural Fuzzy System	95-103
<i>Khalifa Elmansouri, Rachid Latif, and Fadel Maoulainine</i>	
Étalonnage absolu d'un thermocouple « l'effet Seebeck » : Etude expérimentale	104-109
<i>Soufiane Haddout and Mohamed Aghfir</i>	
Approche pédagogique expérimentale : Pendule de Foucault	110-114
<i>Soufiane Haddout and Mbarek Rhazi</i>	
Optimization of firing cycle for different porcelain bodies of sanitaryware: the influence of feldspar	115-124
<i>Camilia Essakli and Abdelali Ider</i>	
Alimentation hydrique de Lippia multiflora en pépinières issues de graines	125-131
<i>Hien Marie Paule epse Boidi, N'guettia Yao René, Koné Brahima, Gala Bi Trazié Jérémie, and Yao-Kouamé Albert</i>	
Hydrograph recession analysis methods and its comparison using unsaturated moisture movement model	132-141
<i>Rajib Maharjan</i>	
Impact of Bullish and Bearish Market on Investor Sentiment	142-151
<i>Yasir Mehmood and Waqas Hanif</i>	
Routing and spectrum assignment in flexible optical networks using hybrid transponders	152-159
<i>M. Akram</i>	
Sociological Analysis of Trainings for Motorbike Riders among Educated Youth: A case of Bahauddin Zakariya University, Multan	160-166
<i>Zahid Hussain, Adeel-Ur-Rehman, Muhammad Khurshid Akhtar Khan, Muhammad Rizwan, and Imtiaz Ahmad Warriach</i>	
Activités antioxydantes des polyphenols extraits de plantes médicinales de la pharmacopée traditionnelle d'Algérie	167-172
<i>Boulanouar Bakchiche and Abdelaziz Gherib</i>	
Calcul mathématique des courbes de remous dans les canaux découverts de profil non prismatique par intégration directe (méthode de bakhmeteff)	173-187

<i>A. Goubaa and A. Fourar</i>	
Utilization of Flue Gas as Carbon Source to Grow <i>Scenedesmus quadricauda</i> for Simultaneous CO ₂ Reduction and Biodiesel (FAME) Production	188-201
<i>K. Pooja and V. Himabindu</i>	
Représentation sociale des changements climatiques dans les paysanneries du Nord-Cameroun	202-208
<i>Richard Atimniraye Nyéladé</i>	
La mixité sociale une facette de la politique de la ville	209-214
<i>Rachid Othmani and Wadiaa Mourchid</i>	
Perspectives anthropologiques de l'adaptation aux changements climatiques: L'exemple des paysans de Louggol-Bamé (Nord Cameroun)	215-220
<i>Richard Atimniraye Nyéladé</i>	
Ampleur des disparités scolaires entre les communes de la ville de Goma au niveau de l'enseignement secondaire année scolaire 2012-2013	221-233
<i>Uzamukunda Sebiyorero Dine</i>	
World Cup Football in International Relations: The 2009 Algerian-Egyptian football conflict	234-238
<i>Sonia Benghida</i>	
Environmental planning and management (EPM) as a strategy for solving environmental problems in Niger delta region: A study of Bonny Island, Rivers State, Nigeria	239-248
<i>Vivan Ezra Lekwot, Micheal Kingsley Balasom, Leo Dyaji, and Ali Andesikuteb Yakubu</i>	
Qualité de l'information comptable et coût de capital : cas des entreprises tunisiennes	249-259
<i>Saber Sebai, Mohamed Messai, and Fathi Jouini</i>	
Loss of ignition as a proxy indicator for assessing the lithological composition of the recent sediments accumulated in some freshwater lakes from the Danube Delta, Romania	260-278
<i>Irina Catianis, Silviu Rădan, and Dumitru Grosu</i>	
Mujeres y mercados de trabajo: análisis de la segregación ocupacional por sexo en México	279-286
<i>Ingrid KURI ALONSO</i>	
Effect of different doses of ferrous gluconate drug on some biochemical parameter in male rat	287-292
<i>Afragh Abdul-wahed</i>	
Contribution des eaux usées ménagères et des eaux de ruissellement dans la pollution des eaux du chenal de Cotonou au Bénin	293-306
<i>Mickael V. M. Kpessou Saizonou, Alassane Youssao, Magloire Gbaguidi, Léonce Dovonon, Henri H. Soclo, and Dominique Sohounhoulé</i>	
Evaluation de la morbidité échographique de la bilharziose urinaire chez les écoliers de 6 localités autour du barrage de Taabo (Côte d'Ivoire)	307-316
<i>Nicaise Aya N'GUESSAN, Ahmadou GARBA, Mathieu Niangoran ORSOT, and Eliézer Kouakou N'GORAN</i>	
Inflation Targeting and Exchange Rate Pass-Through: A Comparative Study in Emerging Markets	317-324
<i>Olfa Manai Daboussi and Necibi Thameur</i>	
An Appraisal of Water Supply and Sanitation Situation in Some Selected Areas of Kaduna Metropolis	325-334
<i>Vivan Ezra Lekwot, Leo Dyaji, Micheal Kingsley Balasom, and Ali Andesikuteb Yakubu</i>	
Proposition d'un modèle d'intégration des systèmes de management Qualité, Sécurité et Environnement	335-346
<i>Mohamed El Khachab, Abdelhakim Mardhy, and Ebrahim Kerak</i>	
Association of anthropometric indices of obesity and white blood cell count with arterial stiffness and blood pressure	347-354
<i>Muhammad Sajid Mehmood, Muhammad Mazhar Hussain, and Saqib Qayum Ahmad</i>	
Traitement des Lixiviats de la décharge non contrôlée de la ville de Taza par électrocoagulation- filtration et leur réutilisation dans la germination du Sorgho et de la luzerne	355-366
<i>Mohamed Ben Abbou and Mounia El Haji</i>	
L'impact de l'efficience de R&D sur l'innovation technologique dans les pays émergents	367-376
<i>Kamilia Loukil</i>	
Implementing Process Safety Management (PSM) in Battery Manufacturing Industry: A case study	377-386

<u>Shohanuzzaman Shohan, Md. Al-amin Hossain, and Fardim Sufiyan</u>	
Correlates between Levels of Education in Relation to Marital Satisfaction in KISII Township of KISII County, Kenya	387-392
<u>Samson Barongo, Peter Onderi, Zachary Kehati, Prof. Michael Okwara, and Dr. Edward Bantu</u>	
Obstacles of innovation among the entrepreneur: An empirical study	393-400
<u>Samia Fakhri and Abdelaziz Bahoussa</u>	
Les motivations d'intégration des systèmes de management : Cas des entreprises marocaines	401-411
<u>Mohamed El Khachab, Abdelhakim Mardhy, and Ebrahim Kerak</u>	
Influence of grasscutter manure, chicken manure and NPK fertilizer on the growth and yield of carrot and chemical properties of soil	412-420
<u>K. Atakora, K. Agvarko, E.K Asiedu, H.K. Dapaah, and S.Y. Annor</u>	
Potential and Viability Analysis for Ginger Cultivation using Fertigation Technology in Malaysia	421-427
<u>M. Yaseer Suhaimi, Abd. M. Mohamad, and M. Nur Farah Hani</u>	
Caractéristiques biochimique et sensorielle du niébé (<i>Vigna unguiculata</i>) conservé au moyen des huiles essentielles extraites de plantes de la famille des Myrtaceae	428-437
<u>Rose de Lima F. Houinsou, Euloge S. Adjou, Edwige Dahouenon Ahoussi, Dominique C. K. Sohounhloué, and Mohamed M. Soumanou</u>	
Enquête entomologique sur la faune culicidienne de la ville de Maroua, Région de l'Extrême-Nord Cameroun	438-448
<u>P. Saotoing, F.N. Fohouo Tchuenguem, and A.M. Njan Nlôga</u>	
Apport de l'OT et du SIG à la cartographie des zones à risque d'érosion hydrique dans le bassin versant productif de Sanguéré, Nord-Cameroun, Afrique Centrale	449-479
<u>S. C. Nguemhe Fils, J. Etouna, and Mustapha Hakdaoui</u>	
Effects of Body Mass Index (B.M.I) on Intelligence Quotient (I.Q)	480-483
<u>Hina Riaz, Rubina Ahmedani, Muhammad Qasim Memon, Fatima Riaz, and Nasheet Sagri</u>	
Enhancement of P ₂ O ₅ Content in SSP Made from Local Rock Phosphate of Pakistan	484-489
<u>Hina Arshad, Shahid Raza Malik, Muhammad Usman Tahir, Waqar Ali Khan, and Muhammad Usman</u>	
Production of Hydrogen and Carbon Nanotubes using Ni SBA-15 Catalyst	490-498
<u>K. Srilatha, D. Srinivasulu, S.U.B. Ramakrishna, V. Viditha, and V. Himabindu</u>	