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# World Applied Sciences Journal

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Knowledge-Based Software Engineering  
Elsevier

This book addresses tourism as a system, provides essentials of tourism management and marketing, discusses planning and impact management, and proposes strategies and recommendations to improve Russia as an international destination.

ITJEMAST 11(4) 2020 IGI Global  
Plants face a wide range of environmental challenges, which are expected to become more intense as a result of global climate change. Plant-soil interactions play an important role in the functioning of ecosystems. Soil properties represent a strong selection pressure for plant diversity and influence the structure of

plant communities and biodiversity. The complexity of plant-soil interactions has recently been studied by developing a trait-based approach in which responses and effects of plants on soil environment are quantified and modelled. This fundamental research on plant-soil interaction in ecosystems is essential to transpose knowledges of functional ecology to environmental management. *Frontiers in Plant-Soil Interaction: Molecular Insights into Plant Adaptation* will address topics that provide advances in understanding plant responses to soil conditions through the integration of genetic, molecular, and plant-level studies of diverse biotic and abiotic stresses under field and laboratory conditions. This book will be beneficial to students and researchers working on stress physiology and stress proteins, genomics, proteomics,

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genetic engineering and other fields of plant-soil interactions. *Frontiers in Plant-Soil Interaction* will also help scientists explore new horizons in their area of research. Brings together global leaders working in the area of plant-environment interactions and shares their research findings. Presents current and future scenarios for the management of stressors. Illustrates the central role for plant-soil interactions in applying basic research to address current and future challenges to humans.

**Actual Problems of Applied Sciences**  
**Journal World Academic Press**

Leadership is viewed as a phenomenon allowing advantages for organizations and their success. Although much research has been done on the concept of leadership, many studies do not include the different styles, perspectives, and contexts of leadership. As such, this book aims to fill this gap by combining several studies on leadership from different perspectives. The various chapters address such topics as millennial leaders, Theory X style leadership, leadership in the turbulent environment, emotional intelligence, and much more. This volume shows how new insights about leadership can stimulate organizational development in various countries and regions worldwide.

**International Journal of Advanced Remote Sensing and GIS** Springer

The human aspect plays an important role in the social sciences. The behavior of people has become a vital area of

focus in the social sciences as well.

**Interdisciplinary Behavior and Social Sciences** contains papers that were originally presented at the 3rd International Congress on Interdisciplinary Behavior and Social Science 2014 (ICIBSoS 2014), Social Sciences and Interdisciplinary Behavior OECD Publishing

The book "Applications of Nanomaterials: A Novel Approach for Pollution Abatement in Industries" highlights an in-depth research about applications of nanotechnology for dye decolouration and abatement of pollutants from industrial effluents and agriculture. The authors have emphasized the significance of synthesis of metallic nanoparticles and their applications in dye decolouration, biocidal activity, and pollution abatement. Wastewaters are producing gradually with rapid development in different type of industries such as textile, leather, pulp, and paper, printing, photographs, cosmetics, pharmaceuticals, commerce, hospitals, and health-care services. The industry use water as a principal medium for removing impurities, applying dyes, and finishing agents. Therefore, the main concern is the discharge of wastewater. Significant quantities of toxic and hazardous chemicals are being generated as an industrial waste. At present, there are thousands types of toxic chemicals commercially generated. Their virulence, firmness to natural disintegration and prolong accumulation in the environment are the cause of much concern to societies and regulatory authorities around the world. There are numerous methods for abatement of organic and inorganic compounds from the wastewater such as filtration, electrolysis, precipitation, ion exchange, coagulation, and adsorption processes. Most of these methods require high capital and recurring expenditure and consequently they are not suitable for small-scale industries. Besides, all the above-mentioned methods, photocatalysis is a highly

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effective and cheap process than the other methods. The search for novel technologies for the remediation and reduction of pollutants has attracted attention to adsorption phenomenon. The adsorption process involves a solid phase (biosorbent) and a liquid phase (solvent, normally water) containing dissolved species to be sorbed (sorbate, metal ions). As sorbent possess higher affinity for the sorbate species, the latter is attracted and attaches thereby different mechanisms. Metallic oxide nanoparticles are crystalline solids consisting of a metal cation and an oxide anion. Metals with high oxidation state forms oxides. Ionic metal oxides react with water to produce hydroxides. Transition metal oxides are compounds composed of oxygen atoms bound to transition metals. These are mainly used for their enhanced catalytic activity and semiconductor properties. Due to presence of superior physical and chemical properties, metal oxide nanoparticles express potential environmental remediation applications. When compared to bulk materials, they display novel properties that lead to the development of electronic and optoelectronic nano-devices with superior performance. It is well known that size and morphology are very important parameters in nanostructures. But there is limited information about the use of different nanoparticles as a photocatalytic removal of different pollutants from wastewater and in agriculture soils. Among the oxide nanoparticles, Titanium dioxide and zinc oxide and Iron oxide are the main compounds used in environment remediation study. Titanium Dioxide ( $\text{TiO}_2$ ), Zinc Oxide ( $\text{ZnO}$ ) and Iron Oxide ( $\text{FeO}$ ) nanoparticles are unique materials with band gap 3.2 eV, 3.37 eV, and 3.06 eV, correspondingly & wavelength of all three particles is above 400 nm. This means that UV light irradiation with a wavelength lower than 400 nm begins a photoreaction. The characteristic of  $\text{TiO}_2$ ,  $\text{ZnO}$ ,  $\text{FeO}$  is the more powerful oxidative power of the VB holes than

the reducibility of photo-induced electrons. Morphology, crystal structure, and elemental composition as characterization are important to understand nanoparticles based study. Widespread techniques used for morphological analysis are Transmission electron microscopy (TEM), Scanning Electron Microscopy (SEM), Atomic Force Microscopy (AFM); Particle Size Analysis (PSA), Dynamic Light Scattering (DLS), etc. Chemical-based Techniques used are X-Ray Photoelectron Spectroscopy (XPS), X-Ray Diffraction (XRD), Fourier Transform Infrared Spectroscopy (FTIR), Ultraviolet-Visible Spectroscopy (UV-Vis Spectroscopy), and Energy Dispersive X-Ray Spectroscopy (EDX). In the present era, thousands of dyes and pigments are produced in industries. A significant increase in the use of synthetic complex organic dyes as coloring material by textile industry has been presented. Comprehensively, synthetic dyestuffs are used in paper, textiles, printing industries, and dye houses. Estimation for the loss of color in waste stream during the manufacturing or processing operations of textile dyes indicates approximately 10 to 20% loss. Textile wastewater poses carcinogenic and genotoxic properties and affects the immune system and reproductive system. It is reported that most of the dyes and poisonous metals used in the color industries are stable to light and are non-biodegradable. In order to reduce the risk of environmental pollution from such waste, it is mandatory to treat them before discharging into the environment. Nanophotocatalyst can decompose most organic or inorganic substances in air or water by photocatalytic oxidation and reduce harmful inorganic substances in water. Current use of nanomaterials has been expanded in every fields of science including agriculture. Plants are very crucial to human and their surroundings but very few studies have been performed to assess the potentiality of nanoparticles in agriculture crops. It has been reported that use of

micronutrient fertilizers in the form of NPs is a crucial way to release desired nutrients gradually and in a controlled way, which is fundamental to diminish the problems of fertilizer pollutions. It is because of that when materials are transformed to a nanoscale, which they revolutionize, their physical, chemical, and biological properties as well as catalytic properties and even more increase the chemical and biological activities. It is demonstrated that micronutrients in the form of NPs can be used in crop production to increase yield. Study on the effect of nanoparticles on the germination, growth and yield of crops is the need of an hour. Despite their great potential, the use of nanoparticles suffers certain restrictions under industrial process conditions like loss of nanoparticles, difficulty in separation and reuse of nanoparticles. To circumvent these limitations, several strategies for immobilization of nanocatalysts in polymer have been suggested. Nanoparticles immobilization appears to be an attractive approach to develop efficient catalyst with improved performances such as enhanced resistance to thermal and chemical inactivation, remarkable storage and operational stabilities, short response time and high reproducibility and reuse. Recently various immobilization materials like Ca-alginate beads, Chitosan, Polyvinyl Alcohol, Nanoporous Silica Gel, Polyacrylamide have been used for immobilization by researchers. Entrapment in Calcium alginate beads is of particular interest because of very mild and simple preparation conditions, non-toxicity, low cost and best performance. Indeed, Alginate is a natural anionic polysaccharide comprised of repetitive units of  $\alpha$ -L-guluronic acid and  $\beta$ -D-mannuronic acid residues. Alginate chains are usually prepared by cross-linking of Guluronic acid with Mannuronic acid residues in the presence of divalent cations like  $\text{Ca}^{2+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Co}^{2+}$ . Therefore, in the present study an effort has been made on comparative investigations on synthesis, characterization of metallic nanoparticles and their applications in dye decolouration, biocidal activity, and abatement of pollutants from industrial effluents and agriculture. The present book would certainly be helpful to graduates, researchers, industrialists, practitioners and managers to use it as benchmark, concrete and conclusive remarks for dye decoloration as well as nutrients remediation of natural and anthropogenic industrial effluents using synthesized metallic nanoparticles at lab and industrial scales at regional, national and global scales.

ITJEMAST 10(13) 2019 Springer

As a field of mathematical study, chaos and complexity theory analyzes the state of dynamical systems by evaluating how they interact, evolve, and adapt. Though this theory impacts a variety of disciplines, it also has significant influence on educational systems and settings. Applied Chaos and Complexity Theory in Education examines the application of the theories of chaos and complexity in relation to educational systems and institutions. Featuring emergent research and perspectives on mathematical patterns in educational settings and instructional practices, this book is a comprehensive reference source for researchers, scholars, mathematicians, and graduate students.

Emerging Issues in the Natural and Applied Sciences IGI Global

Journal Actual problems of applied sciences is the most modern survey articles of internationally recognized authorities. Authors wishing to submit a review to the journal must submit a proposal to the editor, first using the application form as a guide. The journal provides a link between original articles, innovations published in patents, and modern knowledge in various scientific fields. It publishes review articles in interdisciplinary areas in which

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community since 2009. Our aim is to foster scientific exchange in all forms, across all disciplines. In addition to being at the root of Open European Academy of Public Sciences and a key theme in our journals, we support sustainability by ensuring the long-term preservation of published papers, and the future of science through partnerships, sponsorships and awards.

Anthropometry, Apparel Sizing and Design IAP

Mapping Innovations – an outlook of stakeholders – Collection of Award Winning & Selected Essays – by various authors @ NSD2021BLR <https://nationalscienceday.in> NATIONAL SCIENCE DAY The National Science Day is celebrated on 28 February of every year since 1986. The day celebrates the discovery of scattering of light by the renowned Indian physicist Sir. C. V. Raman at the Indian Association for the Cultivation of Science in Kolkata, on 28 February 1928. For this discovery, Sir. C.V. Raman was awarded the Nobel Prize in 1930. The importance of celebrating science day is to herald the significance of science and scientific temper in daily life, get inspired by scientists and their scientific contributions to human welfare.

ABOUT NSD2021 BLR Across the world 2020-21 has impacted the life of this planet by Covid-19-Pandemic. The human race has been fighting hard to win this war with courage. The life has been turning normal or so-called new normal by adopting digital possibilities with grace. NSD 2021 BLR was conceptualised to continue uplifting the spirit of Science Communication amidst this situation.

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Architectural, Energy and Information Engineering John Wiley & Sons

There has been a worldwide increase in the demand for medicinal plants that aid the immune system, and considerable progress has been made in plant-based drug development. *Herbs, Shrubs and Trees of Potential Medicinal Benefits* examines how plants are used in the development of drugs preventing and treating cancer, hepatitis, asthma, influenza, HIV, and other diseases by manipulating a variety of bioactive molecules found in these plant parts. The book analyses how plants may strengthen human immunity, improve mood and brain function, enhance blood and oxygen circulation, boost the healing processes, and maintain blood pressure. Though many herbs, shrubs and trees have been identified for developing healthcare products, many of them require further exploration for potential usage. This volume in the *Exploring Medicinal Plants* series, presents information on herbs, shrubs and trees discussing traditional knowledge, chemical derivatives, and potential benefits of these items. Features: Identifies and highlights some medicinal herbs, shrubs and or trees around the world, presenting overall potential benefits to human health. Explores important medicinal plants for their bioactive constituents and phytochemicals. Discusses medicinal herbs, shrubs, and or trees for their uses in herbal drug preparation. Written by an international panel of plant scientists, this book is an essential resource to students, pharmacists, and chemists. It provides valuable information on fundamental chemical principles, modes of action, and product formulation of bioactive natural products derived from plants for medical

applications.

*Handbook of Research on Managerial Practices and Disruptive Innovation in Asia* Springer

This book contributes to the on-going debates on climate change by focusing on the SDGs and exploring linkages between environmental change and food security as well as the relevance and need to consider the management of natural resources, especially water, soil and forest. Compared to relevant existing publications, this book covers case studies that capture the everyday realities of the local people and how they react and adapt to similar situations in different geographical settings. Each case study presented in this book gives a particular message. The strength of this book lies in the fact that it covers the most neglected topics in climate negotiations in spite of the fact that these decide the fate of millions of people around the world, especially the developing countries. By presenting a collection of case studies from Africa, Asia and Europe, this book encourages cross-continental knowledge sharing. The scope of the book ranges from impacts to mitigation and from in-field experiments to policy implementation. It contributes to the existing knowledge on climate-food nexus and connects climate change to sectors it could impact directly. All chapters in this book emphasise local ownership of strategy processes, effective participation from all levels, and high-level commitment. Besides being relevant for the academicians and scholars working in the field of climate change, forest and agriculture, it aims to catch interest of the policy makers and practitioners to understand ground realities for appropriate action. It is also bound to make an impact

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on the Non-Governmental Organizations around the world and in the three different continents that this book covers, considering the indigenous and local issues highlighted in this book.

Emotional Intelligence And Academic Achievement Among Intermediate Students  
Emerald Group Publishing

This volume is based on the research papers presented in the 4th Computer Science On-line Conference. The volume Software Engineering in Intelligent Systems presents new approaches and methods to real-world problems, and in particular, exploratory research that describes novel approaches in the field of Software Engineering. Particular emphasis is laid on modern trends in selected fields of interest. New algorithms or methods in a variety of fields are also presented. The Computer Science On-line Conference (CSOC 2015) is intended to provide an international forum for discussions on the latest high-quality research results in all areas related to Computer Science. The addressed topics are the theoretical aspects and applications of Computer Science, Artificial Intelligences, Cybernetics, Automation Control Theory and Software Engineering.

Frontiers in Plant – Soil Interaction CRC Press

This book constitutes the refereed proceedings of the 11th Joint Conference on Knowledge-Based Software-Engineering, JCKBSE 2014, held in Volgograd, Russia, in September 2014. The 59 full and 3 short papers presented were carefully reviewed and selected from 197 submissions. The papers are organized in topical sections on methodology and tools for knowledge discovery and data mining; methods and tools for software engineering education; knowledge technologies for semantic web and ontology engineering; knowledge-based methods and tools for testing, verification and validation, maintenance and evolution; natural language processing, image analysis and recognition; knowledge-based methods and applications in information security, robotics and navigation; decision support methods for software engineering; architecture of knowledge-based

systems, including intelligent agents and softbots; automating software design and synthesis; knowledge management for business processes, workflows and enterprise modeling; knowledge-based methods and applications in bioscience, medicine and justice; knowledge-based requirements engineering, domain analysis and modeling; intelligent user interfaces and human-machine interaction; lean software engineering; program understanding, programming knowledge, modeling programs and programmers.

Knowledge Management BoD – Books on Demand

This book constitutes the refereed proceedings of the Second International Multi-topic Conference, IMTIC 2012, held in Jamshoro, Pakistan, in March 2012. The 51 revised full papers presented were carefully reviewed and selected from 205 submissions. The papers address topics from information communication technologies.

World Social Science Report 2013

Changing Global Environments Archers & Elevators Publishing House

Probiotic Dairy Products, 2nd Edition The updated guide to the most current research and developments in probiotic dairy products The thoroughly revised and updated second edition of Probiotic Dairy Products reviews the recent advancements in the dairy industry and includes the latest scientific developments in regard to the 'functional' aspects of dairy and fermented milk products and their ingredients. Since the publication of the first edition of this text, there have been incredible advances in the knowledge and understanding of the human microbiota, mainly due to the development and use of new molecular analysis techniques. This new edition includes information on the newest developments in the field. It offers information on the new 'omic' technologies that have been used to detect

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and analyse all the genes, proteins and metabolites of individuals' gut microbiota. The text also includes a description of the history of probiotics and explores the origins of probiotic products and the early pioneers in this field. Other chapters in this resource provide valuable updates on genomic analysis of probiotic strains and aspects of probiotic products' production and quality control. This important resource: Offers a completely revised and updated edition to the text that covers the topic of probiotic dairy products Contains 4 brand new chapters on the following topics: the history of probiotics, prebiotic components, probiotic research, and the production of vitamins, exopolysaccharides (EPS), and bacteriocins Features a new co-editor and a host of new contributors, that offer the latest research findings and expertise Is the latest title in Wiley's Society of Dairy Technology Technical Series Probiotic Dairy Products is an essential resource for dairy scientists, dairy technologists and nutritionists. The text includes the results of the most reliable research in field and offers informed views on the future of, and barriers to, the progress for probiotic dairy products.

ELT in Asia in the Digital Era: Global Citizenship and Identity International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies

This book represents a comprehensive overview of the field gathering the thoughts and expertise of hundreds of social scientists from around the world. This edition focuses on the transformative role of the social sciences in confronting climate and broader processes of environmental change.

The Fig Bloomsbury Publishing

This proceedings book captures a wide range of timely themes for readers to be able to foresee

the digital era's impact on English teaching in non-English speaking countries. English used in the global environment, the frequent mobile communication, and the use of AI-based translators are bringing about dramatic changes in our English language learning and teaching. Who can provide us the wisdom to know what to do? Those scholars going through these complex environmental changes! A collection of puzzle pieces may bring us a better contour for the future than a perfectly edited book. It's indeed a pleasure reading these insightful pieces to gain wisdom for the future of ELT practices in global contexts.

Software Engineering in Intelligent Systems  
CABI

As a basic human need, water and its treatment are of the utmost importance. However, some rural areas are disadvantaged and have difficulty in effectively treating their water supply, which can affect the health and safety of their region. To protect and defend citizens, research must supply effective and applicable methods in securing the safety and drinkability of water. Membrane Technology for Water and Wastewater Treatment in Rural Regions is an essential publication that discusses the fabrication and characterization of membranes, processes and operations, and specific applications of membranes on water and wastewater treatment. Moreover, the book discusses selected promising aspects of membrane usage in the industry with a focus on palm oil mill industry, sewage management and treatment, and water treatment in rural areas. Featuring coverage on a broad range of topics including membrane processes, water production, and transport resistances, this book is ideally designed for engineers, chemists, environmentalists, public officials,



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researchers, academicians, students, and industry professionals.

Emerging Trends and Applications in Information Communication Technologies  
CRC Press

As an emerging global phenomenon, Islamic economics and the financial system has expanded exponentially in recent decades. Many components of the industry are still unknown, but hopefully, the lack of awareness will soon be stilled. The Handbook of Research on Theory and Practice of Global Islamic Finance provides emerging research on the latest global Islamic economic practices. The content within this publication examines risk management, economic justice, and stock market analysis. It is designed for financiers, banking professionals, economists, policymakers, researchers, academicians, and students interested in ideas centered on the development and practice of Islamic finance. Interdisciplinary Behavior and Social Sciences BoD – Books on Demand

The human aspect plays an important role in the social sciences. The behaviour of people has become a vital area of focus in the social sciences as well. Recent Trends in Social and Behaviour Sciences contains papers that were originally presented at the International Congress on Interdisciplinary Behavior and Social Sciences, held 4-5 November 201

Tourism in Russia Sanchi Foundation ® Social Sciences and Interdisciplinary Behavior contains papers that were originally presented at the 4th International Congress on Interdisciplinary Behavior and Social Science 2015 (ICIBSoS 2015), held 22-23 October 2015 at The Institute of Management, Economics and Finance of the Kazan Federal University, Kazan, Russia and 7-8 November 2015 in Arya Duta Hotel, Jakarta, Indonesia. The contributions deal with various interdisciplinary research topics, particularly in the fields of social sciences, education, economics and arts. The papers focus especially on such topics as language, cultural studies,

economics, behavior studies, political sciences, media and communication, psychology and human development.