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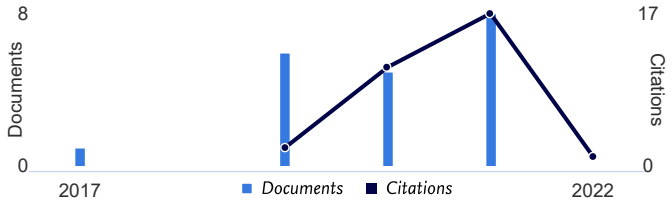

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Hidayati, N., Fuad, H., Munandar, H., ...Darmawati, S., Ethica, S.N.

IOP Conference Series: Earth and Environmental Science, 2021, 743(1), 012007

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International Journal of Environmental Science and Development • *Open Access* • Volume 10, Issue 12, Pages 440 - 444 • 2019

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ISSN
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Synergism and antagonism among indigenous hydrolytic bacteria from biomedical wastes for the generation of bacterial consortium used as bioremediation agent

Ethica S.N.[a, b], Muslim R.[c], Widyawardhana R.M.B.I.[d], Firmansyah A.[e], Muchlissin S.I.[f], Darmawati S.[a, b]

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[a] Medical Laboratory Technology Study Program, Faculty of Nursing and Health Sciences, Universitas Muhammadiyah, Semarang, 50273, Indonesia

[b] Magister Program of Medical Laboratory Science, Universitas Muhammadiyah, Semarang, 50273, Indonesia

[c] Medical Faculty, Universitas Muhammadiyah, Semarang, 50273, Indonesia

[d] Mechanical Engineering Study program, Faculty of Engineering, Universitas Muhamamdiyah, Semarang, 50273, Indonesia

Abstract

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Department of Civil and Environmental Engineering, Idaho State University, Pocatello, Idaho 83209, USA

Email (mailto:leunsolo@isu.edu)

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Prof. Berrin Tansel

Department of Civil and Environmental Engineering, Florida International University, Miami, FL 33174, USA

Email (mailto: tanselb@fiu.edu)

Interest: waste management; coastal impacts; fate and transport of contaminants; solid waste; wastewater

Prof. Abdelazim Mohamed Negm

Water and Water Structures Engineering Dept., Faculty of Engineering, Zagazig University, Zagazig 44519, Egypt

Email (mailto:amnegm@zu.edu.eg)

Interest: water resources; RS/GIS applications in water resources; hydrology and groundwater; environmental engineering; sustainable and green environment; hydrodynamic, modeling, irrigation engineering; hydraulics and environmental hydraulics

Assoc. Prof. Xinling Li

School of Mechanical, Shanghai Jiao Tong University, Shanghai, China

Email (mailto:lxl@sjtu.edu.cn)

Interest: emission of vehicle; air pollution; aerosol

Prof. Kevin Liu

Department of Safety, Health and Environmental Engineering, Ming Chi University of Technology, New Taipei, Taiwan

Website (http://igtplus.mcut.edu.tw/sections/121/pages/376?locale=zh_tw) | Email (mailto:kevinliu@mail.mcut.edu.tw)
Interest: environmental sustainability

Prof. H. L. Koh
Jeffrey Sachs Center on Sustainable Development, Sunway University, Malaysia
Website (http://jci.edu.my/koh-hock-lye/) | Email (mailto:hocklyek@sunway.edu.my)
Interest: mathematical modelling; sustainable lake management

Dr. Mitsuo Yoshida
1. Environmental Research Laboratory, International Network for Environmental and Humanitarian Cooperation, Nonprofit Inc., Tokyo, Japan
2. Global Environment Department, Japan International Cooperation Agency (JICA), Tokyo, Japan
Website (https://mitsuoyoshida.academia.edu/) | Email (mailto:mitsuoyoshida@inehc.com)
Interest: environmental management; environmental geology

Dr. Irvan Dahlan
School of Chemical Engineering, Universiti Sains Malaysia, Malaysia
Website (http://chemical.eng.usm.my/staff/47-academic/267-irvan-dahlan) | Email (mailto:chirvan@usm.my)
Interest: adsorption; wastewater and air pollution treatment

Dr. Violeta Mugica-Alvarez
Department of Basic Sciences, Universidad Autónoma Metropolitana Azvapotzalco, Mexico
Website (http://www.uam.mx) | Email (mailto:vma@azc.uam.mx)
Interest: Environmental sciences, air pollution, soil pollution and remediation

Dr. Hamed Niroumand
Faculty of civil engineering, Universiti Teknologi Malaysia, Malaysia
Email (mailto:niroumandh@gmail.com)

General Information

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CONTENT

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An Assessment of CO_2 Emission and Absorption in Response to Land-Cover Changes in the Seoul Metropolitan Area

Sangheon Lee

Abstract—In order to cope with climate change, which has been becoming a global issue, there are measures such as fundamentally reducing energy use or converting energy sources into renewable energy, but this is difficult to apply due to limitations on human activities. Based on the guidelines provided by the IPCC, this study drew a countermeasure to climate change considering the emission and absorption of CO_2 by land use or land cover. Especially, by using the land-use change simulation technique to predict future land use, expected problems which are caused by urban development were prevented in advance. In addition, CO_2 emissions sources are classified into direct emissions and indirect emissions, and the extent to which each region contributes to greenhouse gas emissions is analyzed to provide alternatives that meet the characteristics of each region. Moreover, to calculate greenhouse gas emissions in the transportation sector, the network analysis of ArcGIS was used to calculate CO_2 emissions from vehicle's movements and to propose alternatives.

Index Terms—Climate change adaptation, CO_2 emission and absorption, direct-indirect emission, land use change simulation.

Snagheon Lee is with Changwon Research Institute, Changwon, Gyeongsangnam-do, South Korea (e-mail: shlee0901@gmail.com).

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PREVIOUS PAPER

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Changes in the Content of Chemical Elements in the Muscle Tissue of Broilers on the Background of Plant Extract and Tetracyclines (http://www.ijesd.org/show-140-1689-1.html)

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Changes in the Content of Chemical Elements in the Muscle Tissue of Broilers on the Background of Plant Extract and Tetracyclines

Olga Kvan, Galimzhan Duskaev, Shamil Rakhmatullin, and Dianna Kosyan

Abstract—The article provides information on the mineral metabolism in the body of an agricultural bird. Studies have shown that when incorporating biologically active substances along with plant extracts, they help to improve the immunity of the birds. This article is devoted to the study of the effect of antibiotic and oak bark extract on mineral metabolism in the body of broiler chickens. During the study it was revealed that the pectoral muscles of the bird contain an excess of such trace elements as cobalt, silicon, vanadium, copper, zinc, and iodine. Oak bark extract in the pectoral muscles and in the muscles of the thigh contributed to the elimination of toxic elements, so the level of aluminum in absolute terms was significantly reduced. The inclusion of antibiotics also led to a significant decrease with respect to aluminum control. The maximum decrease in the level of toxic elements was observed in the group that was additionally co-administered with an antibiotic and oak bark extract. It has been found that extracts of these herbs enhance broiler immunity and help balance the intestinal flora necessary for digestion and for protection against pathogenic microorganisms.

Index Terms—Broiler muscle tissue, mineral metabolism, macronutrient composition, muscles of the bird, tetracycline antibiotic, toxic elements.

The authors are with Federal Research Center of Biological Systems and Agrotechnologies of the Russian Academy of Sciences, 9 Yanvarya, 29, Orenburg 460000, Russia (e-mail: kwan111@yandex.ru, gduskaev@mail.ru, Shahm2005@rambler.ru, kosyan.diana@mail.ru).

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An Assessment of CO_2 Emission and Absorption in Response to Land-Cover Changes in the Seoul Metropolitan Area (http://www.ijesd.org/show-140-1688-1.html)

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Effects of the Horizontal Elements on Windward Wall of Buildings on Natural Ventilation and Pollutant Dispersion (http://www.ijesd.org/show-140-1690-1.html)

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