

ISSN: 2186-2990

DOI: <http://dx.doi.org/10.21660/geomate>



Scopus

EBSCO

CENGAGE Learning



GIF
GLOBAL IMPACT FACTOR



VOLUME 12
Issue 33 & 34
May - June 2017

International Journal of GEOMATE

(Geotechnique, Construction Materials and Environment)



Tsu, Japan

THE GEOMATE INTERNATIONAL SOCIETY

<http://www.geomatejournal.com/>

INTERNATIONAL JOURNAL OF GEOMATE

(Geotechnique, Construction Materials & Environment)

ISSN: 2186-2982(Print), 2186-2990(Online)

International Journal of GEOMATE is Abstracted/Indexed in: SCOPUS, Web of Science Emerging Sources Citation Index (ESCI), EBSCO, Global Impact Factor (GIF), Gale (a Cengage Learning Company), ULRICHSWEB, Global Serials Directory, etc.

Impact Factor (by GIF): 2015: 1.009; 2014: 0.987; 2013: 0.825; 2012: 0.714

Paper acceptance rate: 2015: 35.28%; 2014: 37.5%; 2013: 38.71%; 2012: 46.66%; 2011: 61.53%

Honorary Editor

Prof. Dr. Shoji Inoue, Professor Emeritus, Mie University, Japan

Editor-in-Chief:

Prof. Dr. Zakaria Hossain, Mie University, Japan

Assistant to Editor-in-Chief:

Dr. Jim Shiau, University of Southern Queensland, Australia

Associate Editors:

Prof. Dr. Fumio Tatsuoka, Tokyo University of Science, Japan

Prof. Dr. Sai Vanapalli, University of Ottawa, Canada

Prof. Dr. Ian Jefferson, University of Birmingham, United Kingdom

Prof. Dr. Mounir Bouassida, National School of Engineering of Tunis

Prof. Dr. Bujang B.K. Huat, University Putra Malaysia, Malaysia

Prof. Dr. Nemy Banthia, University of British Columbia, Canada

Prof. Dr. Toshinori Sakai, Mie University, Japan

Prof. Dr. A.S.M. Abdul Awal, University Technology Malaysia, Malaysia

Prof. Dr. Jing-Cai Jiang, University of Tokushima, Japan

Prof. Dr. Lilia Robles Austriaco, Angles University Foundation, Philippines

Prof. Dr. Muhammad Ibn Ibrahimy, International Islamic University, Malaysia

Prof. Dr. Shamsul I. Chowdhury, Roosevelt University, USA

Prof. Dr. Isabel Pinto, University of Coimbra, Portugal

Prof. Dr. Kaneco Satoshi, Mie University, Japan

Prof. Dr. Mohammad Shariful Islam, BUET, Bangladesh

Prof. Dr. Mark Jaksa, University of Adelaide, Australia

Prof. Dr. Kingshuk Roy, Nihon University, Japan

Prof. Dr. Md. Shahin Hossain, Islamic University of Technology, Bangladesh

Prof. Dr. Ranjith Pathegama Gamage, Monash University, Australia

Prof. Dr. Pedro Arrua, Universidad Tecnológica Nacional, Argentina

Prof. Dr. Miguel A. Pando, University of North Carolina, USA

Full list of sub-editors and editorial assistants are given in the web page.

Copyright © 2017 by International Journal of GEOMATE

All rights reserved. In principle, no part of this publication or the information contained herein may be reproduced in any form or by any means, translated in any language, stored in any data base or retrieval system, or transmitted in any form or by any means without prior permission in writing from the publisher.

Disclaimer: The editors and the publisher have tried their best effort to ensure integrate and the quality of this publication and information herein. However, they give no warranty of any kind, expressed or implied with regard to the material contained in this journal, and will not be liable in any event for the consequences of its use.

Publisher: The GEOMATE International Society

Place of publication: Tsu city, Mie, Japan

Contact: Editor-in-Chief, Dr. Zakaria Hossain, Professor, Graduate School of Bioresources,

Mie University, 1577 Kurimamachiya, Tsu city, Mie 514-8507, Japan

E-mail: editor@geomatejournal.com, URL: <http://www.geomatejournal.com/>

Tel & Fax: +81-59-231-9578

INTERNATIONAL JOURNAL OF GEOMATE

(Geotechnique, Construction Materials & Environment)

ISSN: 2186-2982(Print), 2186-2990(Online)

Founded in 2011, *The "International Journal of GEOMATE"* is a Scientific Journal of the GEOMATE International Society that encompasses a broad area in Geotechnique, Construction Materials and Environment. The key objective of this journal is to promote interdisciplinary research from various regions of the globe. The editorial board of the journal is comprised of extensively qualified researchers, academicians, scientists from Japan and other countries of the world. It is peer-reviewed journal that is published quarterly. All articles published in this journal are available on line. Contributors may download the manuscript preparation template for submitting paper or contact to the Editors-in-Chief [editor@geomatejournal.com].

Aims and Scopes:

The journal aims to become an efficient mean of publishing and distributing high quality information from the researchers, scientists and engineers. The main scopes are as follows:

- Advances in Composite Materials
- Computational Mechanics
- Foundation and Retaining Walls
- Slope Stability
- Soil Dynamics
- Soil-Structure Interaction
- Pavement Technology
- Tunnels and Anchors
- Site Investigation and Rehabilitation
- Ecology and Land Development
- Water Resources Planning
- Environmental Management
- Earthquake and Tsunami Issues
- Safety and Reliability
- Geo-Hazard Mitigation
- Case History and Practical Experience
- Others

Review Policy:

- The paper which meets the editorial criteria will be assigned to at least two anonymous reviewers for peer-review.
- Authors may recommend some reviewers - however, Editors are entitled to consider them or not.
- The Editorial Board consists of an outstanding group that is responsible for the review process of the submitted manuscripts and will guarantee the quality of the publication.
- The manuscript will be published as soon as it is accepted and all the modifications recommended by the reviewers are made.
- The review procedure is as strict as in the most prestigious journals, but publication time is minimized.
- Based on the reviewers' comments, the Editors will make a decision on a paper as one of the following four conditions:
 1. Accept without revision
 2. Accept with minor revision
 3. Encourage to resubmit with major revision
 4. Reject

In case of acceptance with either minor or major revisions, the authors will be advised to revise the manuscript according to the reviewers' comments.

INTERNATIONAL JOURNAL OF GEOMATE

(Geotechnique, Construction Materials & Environment)

ISSN: 2186-2982(Print), 2186-2990(Online)

Instruction to Author:

- The manuscript to be submitted should be prepared using the manuscripts submission template.
- Download the manuscript formatting template from download files menu.
- The manuscript to be submitted adheres to the rules and guidelines given in manuscript template.
- The manuscript should be written in English according to the manuscript template.
- The page limit is 8 pages for ordinary manuscript and 10 pages for invited manuscript.
- The references inside the text and in the bibliographic list should follow the formats as per the manuscript template.
- All figures, graphs and tables must follow the font-style of the text. Ensure clear and good quality picture in the first submission.
- Selected manuscript from "GEOMATE Conference Presentation" will be reprinted in the journal with nominal charges (40% discount of regular fees) based on the agreement of the authors.
- Accepted papers which were not presented in "GEOMATE Conference" need publication charges of 600 USD as regular fees. Any page or fraction thereof exceeding page limit will be charged 100 USD per page.
- This is required for its maintenance such as managing article submission and peer review, typesetting, tagging and indexing of articles, hosting articles on dedicated servers, supporting sales and marketing costs to ensure global dissemination via different databases, and permanently preserving the published journal article.
- Copyright: GEOMATE required to obtain copyright of papers from authors for the term of copyright by signing and returning the publishing agreement.

Manuscript Submission Method:

- Submit full manuscript online using "Submission" menu. We accept online submission only.
- Copyright release form to be e-mailed separately along with manuscript submission. Download it from the "Download Files Menu".
- Abolition of printed version: Considering environmental conservation, the paper version has been discontinued since June 2016.
- For any questions: Contact us [editor@geomatejournal.com].

Membership Fees: Regular Member 100USD/year; Life Member 900USD only.

Membership Benefits:

- Receive Membership ID/Card
- Use M.G. or L.M.G. after your name (M=Member, G=Geomate, L=Life)
- Be involved in GEOMATE technical committees and activities
- Be up-to-date on the current development in the field
- Priority right to participate in international conferences with 20% discount
- 20% discount for Journal paper publication
- Vote in the election of GEOMATE officers
- Access to the Journal webpage

Membership Application (send the related items below using online form):

- Full Name:
- Title/Position (check one): Prof. A/Prof. Dr. Mr. Ms.
- Membership Category (check one): Regular Member Life Member Others
- Address:
- Tel & Fax:
- E-mail (co-authors email separated by comma):
- Research Area (check one): Geotechnique Construction Materials Environment Others

INTERNATIONAL JOURNAL OF GEOMATE

(Geotechnique, Construction Materials & Environment)

ISSN: 2186-2982(Print), 2186-2990(Online)

STATEMENT ON PUBLICATION ETHICS AND PUBLICATION MALPRACTICE (1/2)

The International Journal of GEOMATE is a double blind peer-reviewed journal. All parties involved in the act of publishing an article for this journal, i.e.: the editors, the author, the peer-reviewers and the publisher must follow the ethical behavior indicated in the COPE's Best Practice Guidelines for Journal Editors. In order to warrant high-quality scientific publications, public trust in scientific findings, and that people receive credit for their ideas, the ethical standards for publication are followed.

DUTIES OF EDITORS

Decision on the Publication of Article: Based on the double blind peer review of a paper, the Chief Editor and the Associate Editor are responsible for deciding which of the articles accepted for publication. Neither the Chief Editor nor the Associate Editor have the authority to influence the reviewers who are conducting the blind review of the articles submitted for peer review. The Chief Editor and the Associate Editor may be guided by the policies of the journal's Editorial Board and subjected to such legal requirements regarding libel, copyright infringement and plagiarism.

Honest Play: Manuscripts submitted to GEOMATE shall be exclusively evaluated based mainly on their intellectual quality and significance. GEOMATE will not give any consideration on authors' race, gender, sexual orientation, religious beliefs, ethnic origin, citizenship, or political philosophy.

Confidentiality: The Chief Editor, the Associate Editor and any editorial staff must not disclose any information about a submitted manuscript to anyone other than the corresponding author, reviewers, potential reviewers, other editorial advisers, and the publisher.

Disclosure and Conflicts of Interest: Unpublished materials disclosed in a submitted manuscript must not be used by anyone who has a view of the manuscript (while handling it) in his or her own research without the express written consent of the author.

DUTIES OF REVIEWERS

Contribution of Double Blind Peer Review: Any identifying information will be stripped out from the submitted paper so that the reviewers do not know any information about the authors and vice versa i.e.: reviewers' comments to the editors are confidential and before passing on to the authors, it will be made anonymous. The Double Blind Peer review assists the reviewers in making editorial decisions, while editorial communications with the author may also assist the author in improving the manuscript. The names of the reviewers known only to the Chief Editor and the Associate Editor and it remains strictly confidential to authors.

Punctuality: Any selected referee who feels unqualified to review the assigned manuscript or unable to provide a prompt review should notify the Chief Editor and the Associate Editor and excuse himself/herself from the review process.

Confidentiality: Private information or ideas obtained through double blind peer review must be kept confidential and not used for personal advantage. Manuscripts received for review must be treated as confidential documents. Without any authorization by the Chief Editor and the Associate Editor, the information of the submitted manuscript must not be shown to, or discussed with, others.

Standards of Objectivity: There shall be no personal criticism of the author. Reviewers should express their views clearly with supporting arguments and reviews should be conducted objectively.

Acknowledgment of Sources: Authors should cite relevant references and corresponding citation if any statement in the submitted paper had been previously published or reported elsewhere. Reviewers should identify relevant published work that has not been cited by the authors. If a reviewer finds any substantial similarity or overlap between the submitted manuscript and any other published works, s/he should inform to the Chief Editor/Associate Editor's.

Conflict of Interest: In any reviewers find that the submitted manuscript has conflicts of interest resulting from competitive, collaborative, or other relationships or connections with any of the authors, companies, or institutions, s/he should not review that manuscripts and notify to the Chief Editor/Associate Editor's promptly.

DUTIES OF AUTHORS

Reporting Standards: Authors of papers of original research should present an accurate account of the work performed as well as an objective discussion of its significance. Underlying data should be represented accurately in the paper. A manuscript should contain sufficient detail and references to permit others to replicate the work. Fraudulent or knowingly inaccurate statements constitute unethical behavior and are unacceptable.

Data Access and Retention: Authors may be asked to provide the raw data in connection with a paper for editorial review, and should be prepared to provide such data for public access or for access to the readers of the journal.

Originality and Plagiarism: The authors should ensure that they have written entirely original works, and if the authors have used the work and/or words of others, this must be appropriately cited or quoted. All papers published by International Journal of GEOMATE are committed to publishing only original material, i.e., material that has neither been published elsewhere, nor is under review elsewhere. Paper that are found to have been plagiarized from a manuscript by other authors, whether published or unpublished, will incur plagiarism sanctions.

INTERNATIONAL JOURNAL OF GEOMATE

(Geotechnique, Construction Materials & Environment)

ISSN: 2186-2982(Print), 2186-2990(Online)

STATEMENT ON PUBLICATION ETHICS AND PUBLICATION MALPRACTICE (2/2)

Acknowledgment of Sources: Proper acknowledgment of the work of others must always be given. Authors should cite publications that have been influential in determining the nature of the reported work.

Manipulation of Citations: Submitted papers that are found to include citations whose primary purpose is to increase the number of citations to a given author's work, or to articles published in a particular journal, will incur sanctions for manipulation of citations.

Falsification and Fabrication: Submitted papers that are found to have either falsified or fabricated numerical/experimental results, including the manipulation of images, will incur data fabrication and falsification sanctions.

Authorship: The authorship of a paper should be limited to those who have made a significant contribution to the conception, design, execution, or interpretation of the reported study. All those who have made significant contributions should be listed as co-authors. Where there are others who have participated in certain substantive aspects of the research project, they should be acknowledged or listed as contributors.

Scientific Contribution: All listed authors must have made a significant scientific contribution to the research in the manuscript and approved all its claims. It is important to list everyone who made a significant scientific contribution, including students and laboratory technicians.

Corresponding Author: Corresponding Author is the author responsible for communicating with the journal for publication. The corresponding author should ensure that all appropriate co-authors and no inappropriate co-authors are included on the paper, and that all co-authors have seen and approved the final version of the paper and have agreed to its submission for publication.

Acknowledgment of Funding Sources: Funding sources for the research reported in the manuscript should be duly acknowledged after the conclusion and before the list of references.

Disclosure and Conflicts of Interest: All sources of financial support for the project or any substantive conflict of interest that might be interpreted to influence the results of the paper should be disclosed.

Fundamental Errors in Published Works: It is the author's responsibility to promptly notify the Chief Editor/Associate Editor if s/he discovers a significant error or inaccuracy in his/her own published work to retract or correct the paper.

Redundant, Concurrent or Multiple Publications: An author should not in general publish manuscripts describing essentially the same research in more than one journal or primary publication. Manuscripts that are found to have been published elsewhere, or to be under review elsewhere, will incur duplicate submission/publication sanctions. If authors have used their own previously published work, or work that is currently under review, as the basis for a submitted manuscript, they are required to cite the previous work and indicate how their submitted manuscript offers novel contributions beyond those of the previous work. Submitting the same manuscript to more than one journal concurrently constitutes unethical publishing behavior and is unacceptable. Redundant publications involve the inappropriate division of study outcomes into several articles.

SANCTIONS

In the event that there are documented violations of any of the above mentioned policies in any journal, regardless of whether or not the violations occurred in a journal published by GEOMATE, the following sanctions will be applied:

- *Immediate rejection of the infringing manuscript.*
- *Immediate rejection of every other manuscript submitted to GEOMATE by any of the authors of the infringing manuscript.*
- *Prohibition against all of the authors for any new submissions to GEOMATE, either individually or in combination with other authors of the infringing manuscript, as well as in combination with any other authors. This prohibition will be imposed for a minimum of five years.*
- *Prohibition against all of the authors from serving on the Editorial Board of the International Journal of GEOMATE*

In cases where the violations of the above policies are found to be particularly outrageous, the publisher reserves the right to impose additional sanctions beyond those described above.

INTERNATIONAL JOURNAL OF GEOMATE

(Geotechnique, Construction Materials & Environment)

ISSN: 2186-2982(Print), 2186-2990(Online)

Volume 12, Issues 33

ADSORPTIVE BEHAVIOR OF LOW-COST MODIFIED NATURAL CLAY ADSORBENTS FOR ARSENATE REMOVAL FROM WATER by Borano Te, Boonchai Wichitsathian and Chatpet Yossapol	1-7
NUMERICAL SIMULATION OF DESICCATION CRACKING PROCESS BY WEAK COUPLING OF DESICCATION AND FRACTURE by Sayako Hirobe and Kenji Oguni	8-13
EVALUATION OF THE EFFECTIVENESS AND APPROPRIATENESS OF BANGKOK ACTION PLANS ON GLOBAL WARMING MITIGATIONS by Anna Kiewchaum, Sarawut Thepanondh, Duanpen Sirithian, Kamolthip Mahavong and Pantitcha Outapa	14-21
INVESTIGATING THE RELATIONSHIP BETWEEN RAINFALL INTENSITY, CATCHMENT VEGETATION AND DEBRIS MOBILITY by Rick Jaeger and Terry Lucke	22-29
ANALYTICAL SOLUTION FOR A LONG WAVES PROPAGATION IN TWO-LAYER FLUID OVER A SUBMERGED HUMP by Fatimah Noor Harun and Muhammad Afiq Ahmad Khairuddin	30-37
A COMPARISON OF PARALLEL BRANCH AND BOUND ALGORITHMS FOR LOCATION-TRANSPORTATION PROBLEMS IN HUMANITARIAN RELIEF by Chansiri Singhtaun and Suriya Natsupakpong	38-44
GAS CONTENT APPRAISAL OF SHALLOW COAL SEAMS IN THE SOUTH PALEMBANG BASIN OF SOUTH SUMATRA by Ana Asmina, Edy Sutriyono and Endang Wiwik Dyah Hastuti	45-52
FLOW CONTROL THROUGH VORTEX SHEDDING INTERACTION OF ONE CYLINDER DOWNSTREAM OF ANOTHER by Jonathan Payton and Sam M Dakka	53-59
FEASIBILITY STUDY OF BIODIESEL PRODUCTION FROM RESIDUAL OIL OF PALM OIL MILL EFFLUENT by Monthatip Klabsong, Nipapun Kungskulniti, Chanakan Puemchalad, Naowarut Charoenca and Vittaya Punsuvon	60-64
ANALYSIS OF TIME-DEPENDENT MERCURY FLOWS THROUGH THE USE OF THERMOMETERS AND SPHYGMOMANOMETERS IN THAILAND by Manaporn Wongsoonthornchai, Ruth Scheidegger, Suphaphat Kwonpongsagoon and Hans-Peter Bader	65-70
MERCURY CONTAMINATION IN ENVIRONMENT SURROUNDING COAL-FIRED POWER PLANT by Kamolthip Mahavong, Poranee Pataranawat and Sopa Chinwetkitvanich	71-77
THE ANAEROBIC BAFFLED REACTOR (ABR): PERFORMANCE AND MICROBIAL POPULATION AT VARIOUS COD LOADING RATES by Sopa Chinwetkitvanich and Apaporn Ruchiraset	78-84
DEEP BASEMENT EXCAVATION IN SOFT BANGKOK CLAY CLOSED TO PALACES by Wanchai Teparaksa	85-90
EFFECT OF TEMPERATURE ON REMOVAL OF COD AND TSS FROM ARTIFICIAL RIVER WATER BY MUDBALLS MADE FROM EM4, RICE BRAN AND CLAY by Fadjari Lucia Nugroho, Deni Rusmaya, Yonik Meilawati Yustiani, Fajar Ibnil Hafiz and Runie Besty TetaPutri	91-95
EVALUATION OF RESUSPENSION OF ROAD DUST IN A CEMENT INDUSTRIAL COMPLEX AREA by Tipawan Phetravech and Sarawut Thepanondh	96-103
A NEW QUEUING TECHNIQUE IN ADAPTIVE MULTIPATH ROUTING FOR CONGESTION CONTROL WITH PACKET PRIORITY IN WIRED DATA NETWORKS by N.Krishna Chaitanya and S.Varadarajan	104-108
ROLE OF PUBLIC PARTICIPATION IN ENVIRONMENTAL IMPACT ASSESMENT IN THAILAND by Chutarat Chompunth	109-113
ASSESSING TEMPORAL MOMENT CHARACTERISTICS OF SOLUTE TRANSPORT PHENOMENA IN HETEROGENEOUS AQUIFERS USING RANDOM WALK PARTICLE TRACKING by Yasuteru Kobi, Kazuya Inoue and Tsutomu Tanaka	114-121
TREATMENT EFFICIENCY AND COMPRESSIBILITY BEHAVIOR OF SOIL MODIFIED WITH POWDERED ACTIVATED CARBON by Mohd Yuhyi Mohd Tadz and Fauzi Baharudin	122-126

INTERNATIONAL JOURNAL OF GEOMATE
(Geotechnique, Construction Materials & Environment)
ISSN: 2186-2982(Print), 2186-2990(Online)

Volume 12, Issues 33

SHEAR STRENGTH OF CLAY REINFORCED WITH SQUARE AND TRIANGULAR ARRANGEMENT OF GROUP ENCAPSULATED BOTTOM ASH COLUMNS by Muzamir Hasan, Nurul Aina Husaini and Norhayani Pangee	127-133
INFLUENCE OF RAILINGS STIFFNESS ON WHEEL LOAD DISTRIBUTION IN ONE- AND TWO-LANE CONCRETE SLAB BRIDGES by Mohammad Abou Nough, Ghassan Fawaz, Mounir Mabsout and Kassim Tarhin	134-138
RESOURCE USAGE PREDICTION BASED ON ARIMA-ARCH MODEL FOR VIRTUALIZED SERVER SYSTEM by Biju R Mohan and G Ram Mohana Reddy	139-146
THE VALUE OF GREEN BELTS IN URBAN SPRAWL: A CASE STUDY OF TAICHUNG CITY, TAIWAN by Chih-Hao Chen and Walter Den	147-152
EFFECTIVENESS OF USING RIVER INSECT LARVAE AS AN INDEX OF CU, ZN AND AS CONTAMINATIONS IN RIVERS, JAPAN by Hiroyuki Ii and Akio Nishida	153-159
MICROCOSM EXPERIMENTS ON A COCONUT-FIBRE BIOFILM TREATMENT SYSTEM TO EVALUATE WASTE WATER TREATMENT EFFICIENCIES by Naofumi Sato, W. N. K. Dharmarathne, Takeshi Saito, Hiroyasu Sato, Norio Tanaka and Ken Kawamoto	160-166
1-D COMPRESSIBILITY PARAMETERS OF LIGHTLY SOLIDIFIED DREDGED MARINE SOIL (DMS) USING CEMENT, GGBS AND COARSE SAND by Suaathi Kalianan and Chee-Ming Chan	167-171

INTERNATIONAL JOURNAL OF GEOMATE

(Geotechnique, Construction Materials & Environment)

ISSN: 2186-2982(Print), 2186-2990(Online)

Volume 12, Issues 34

MODELING OF PERMEABILITY OF POROUS MEDIA WITH MIXED WETTABILITIES BASED ON NONCIRCULAR CAPILLARIES by Junichiro Takeuchi, Hidetaka Tsuji and Masayuki Fujihara	1-7
ENVIRONMENTAL IMPACTS OF RECYCLED NONMETALLIC FRACTION FROM WASTE PRINTED CIRCUIT BOARD by Suphaphat Kwonpongsagoon, Sawanya Jareemit and Premrudee Kanchanapiya	8-14
EFFECTS OF BEND-TWIST COUPLING DEFORMATION ON THE AERODYNAMIC PERFORMANCE OF A WIND TURBINE BLADE by Nawapon Sompong and Pongtorn Prombut	15-20
NUMERICAL INVESTIGATION FOR THE ENHANCEMENT OF THE AERODYNAMIC CHARACTERISTICS OF AN AEROFOIL BY USING A GURNEY FLAP by Julanda Al-Mawali and Sam M Dakka	21-27
DC AND RF CHARACTERISTICS FLUCTUATION OF INALAS/INGAAS HEMTS ACCORDING TO THE OPERATING TEMPERATURE VARIATION by Kenta Otsuki, Yuta Kainuma, Ryuichi Miyashita, Kimihiro Yamanaka and Hirohisa Taguchi	28-31
SHEAR ZONE DEVELOPMENT AND FRICTIONAL INSTABILITY OF FAULT GOUGE by Momoko Hirata, Jun Muto and Hiroyuki Nagahama	32-37
STUDY ON ADSORPTION ABILITY OF ADSORBENTS FOR STRONTIUM IN DIFFERENT SOLUTIONS by Keiichiro Shibata, Hidenori Yoshida, Naomichi Matsumto and Yoshihiro Suenaga	38-44
INVESTIGATION ON THE BIODEGRADATION CAPACITY OF URBAN RIVERS IN JAKARTA, INDONESIA by Yonik Meilawati Yustiani and Imas Komariah	45-50
CHARACTERISTICS OF THE SLUDGE PARTICLES IN REMOVAL PROCESS OF RADIOACTIVE CESIUM FROM OCEAN SLUDGE BY DECOMPOSITION SYSTEM WITH CIRCULATION TYPE USING MICRO BUBBLES AND ACTIVATING MICROORGANISMS by Kyoichi Okamoto, Takeshi Toyama and Tomoe Komoriya	51-56
A TURBIDITY REMOVAL STRATEGY FROM THE WATER RESOURCES OF BANDUNG CITY, INDONESIA by Evi Afiatun, Hary Pradiko and Hari Prayoga	57-61
A STUDY ON THE COOLING EFFECTS OF GREENING FOR IMPROVING THE OUTDOOR THERMAL ENVIRONMENT IN PENANG, MALAYSIA by Julia Md. Tukiran, Jamel Ariffin and Abdul Naser Abdul Ghani	62-70
THE POTENTIAL OF INDIGENOUS BACTERIA TO INCREASE POROSITY-PERMEABILITY OF RESERVOIR ROCK: A PRELIMINARY STUDY by Astri Rinanti	71-75
A SIMPLIFIED METHOD FOR LABORATORY SOIL ANALYSIS by N. Chaouqi, M.El Gharous, Z.Naceri and M.Bouzziri	76-81
THE DISTRIBUTION AND ACCUMULATION OF CHEMICAL ELEMENTS IN THE ECOSYSTEM OF LAKE ILMENSKOE by Tatyana G. Krupnova, Irina V. Mashkova, Anastasiya M. Kostryukova and Egor V. Artyukov	82-88
ECOLOGICAL STATE AND NEW APPROACHES TO THE RESTORATION OF LAKE UVILDY, RUSSIA by Irina V. Mashkova, Tatyana G. Krupnova, Anastasiya M. Kostryukova and Varvara Yu. Schelkanova	89-95
SOCIO-ENVIRONMENTAL DIMENSIONS OF TOURIST SERVICE EXPERIENCE IN HOMESTAYS by Boo Ho Voon, Jamil Hamali, Patricia Melvin Jussem, Ai Kiat Teo and Agnes Kanyan	96-100
MONITORING AIR QUALITY USING LICHENS IN CHELYABINSK, RUSSIAN FEDERATION by Anastasiya M. Kostryukova, Tatyana G. Krupnova, Irina V. Mashkova and Elena E. Schelkanova	101-106
DEVELOPING A METHODOLOGY PACKAGE FOR LOCAL CAPITAL STOCKS MANAGEMENT : A CASE STUDY IN ICHIHARA CITY by Tomomi Maekawa and Hidefumi Kurasaka	107-114
ASSESSING TSUNAMI VULNERABILITY AREAS USING SATELLITE IMAGERY AND WEIGHTED CELL-BASED ANALYSIS by Guntur, Abu Bakar Sambah, Fusanori Miura, Fuad, and Defrian Marza Arisandi	115-122

INTERNATIONAL JOURNAL OF GEOMATE
(Geotechnique, Construction Materials & Environment)
ISSN: 2186-2982(Print), 2186-2990(Online)

Volume 12, Issues 34

VERTICAL HANDOVER DECISION MANAGEMENT ON THE BASIS OF SEVERAL CRITERIA FOR LVQNN WITH UBIQUITOUS WIRELESS NETWORKS by Sunisa Kunarak and Raungrong Sulesathira	123-129
OBTAINING COMPLETE MIXING USING HYDRODYNAMIC ANALYSIS ON BATCH REACTOR by Rositayanti Hadisoebroto, Suprihanto Notodarmojo, Idris Maxdoni Kamil, Yazid Bindar and Rangga Santosa	130-134
PREDICTION OF LOCAL SCOUR AROUND WIDE BRIDGE PIERS UNDER CLEAR-WATER CONDITIONS by Nordila Ahmad, Thamer A. Mohammad and Zuliziana Suif	135-139
SUSPENDED SEDIMENT DYNAMICS CHANGES IN MEKONG RIVER BASIN: POSSIBLE IMPACTS OF DAMS AND CLIMATE CHANGE by Zuliziana Suif, Chihiro Yoshimura, Oliver Saavedra, Nordila Ahmad and Sengheng Hul	140-145
HEAVY METAL SPECIATION IN SEDIMENTS IN SAGULING LAKE WEST JAVA INDONESIA by Eka Wardhani, Suprihanto Notodarmojo and Dwina Roosmini	146-151
ESTABLISHMENT OF JET INDEX J_i FOR SOIL ERODIBILITY COEFFICIENTS USING JET EROSION DEVICE (JEd) by Saerahany L. Ibrahim, Jazuri Abdullah, Khairulafinawati Hashim and Junaidah Ariffin	152-157