

Title	Contents : Annual Report of FY 2006, The Core University Program between Japan Society for the Promotion of Science (JSPS) and Vietnamese Academy of Science and Technology (VAST)
Author(s)	
Citation	Annual Report of FY 2006, The Core University Program between Japan Society for the Promotion of Science (JSPS) and Vietnamese Academy of Science and Technology (VAST). P.3-P.4
Issue Date	2007
Text Version	publisher
URL	<a href="http://hdl.handle.net/11094/20988">http://hdl.handle.net/11094/20988</a>
DOI	
rights	

*Osaka University Knowledge Archive : OUKA*

<https://ir.library.osaka-u.ac.jp/repo/ouka/all/>

## Contents

### Topic 1

Determination of zinc in vehicle exhaust particulates by inductively coupled plasma atomic emission spectrometry with electrothermal vaporization <i>Taketoshi Nakahara, Hiroshi Uchihara, Masahiko Ikeda</i>	3
Air quality monitoring and its emission sources in Hanoi <i>Nguyen Pham Ha, Pham Hung Viet, Nguyen Thuy Ngoc, Akikazu Kaga, Arika Kondo, Yasuaki Maeda</i>	9
Design and development of membrane chip system for stress sensor <i>Ryoichi Kuboi, Toshinori Shimanouchi, Hiroshi Umakoshi</i>	21
Classification and zoning of water quality for main rivers in Binh Tri Thien region (Central Vietnam) based on water quality index <i>Nguyen Van Hop, Thuy Chau To, Truong Quy Tung, Tu Vong Nghi, Yuta Yasaka</i>	25
Atmospheric polycyclic aromatic hydrocarbons in air samples of Hanoi <i>Masao Kishida, Kiyoshi Imamura, Norimichi Takenaka, Yasuaki Maeda, Pham Hung Viet</i>	35
Development of electroactive polymethylthiophene based dopamine sensor <i>Vu Thi Huong, Do Phuc Quan, Nguyen Minh Tue, Toshinori Shimanouchi, Pham Hung Viet, Ryoichi Kuboi</i>	41
Investigation on air pollution in Vietnam -Volatile organic compounds in Hanoi and Ho Chi Minh– <i>Kiyoshi Imamura, Yasuaki Maeda, Norimichi Takenaka, Pham Hung Viet, Tran Thi Ngoc Lan</i>	47
Determination of dicarboxylic degradation products of nonylphenol polyethoxylates in water samples by SPE and GC-MS after methylation <i>Pham Manh Hoai, Shinji Tsunoi, Kazunari Sei, Yuta Yasaka, Pham Hung Viet, Minoru Tanaka, Michihiko Ike, Masanori Fujita</i>	55
Design and development of oxidative stress responsive liposome membrane with enzymatic activity (lipozyme) and its application to chemical/biosensor <i>Le Quoc Tuan, Hiroshi Umakoshi, Toshinori Shimanouchi, Ryoichi Kuboi</i>	63
Risk assessment of wastewater toxicity from industrial parks in Saigon – Dongnai River Basin <i>Do Hong Lan Chi, K. Becker Van Slooten</i>	67
Arsenic pollution in groundwater in Red River Delta, Vietnam: Situation and human exposure <i>Pham Thi Kim Trang, Vi Thi Mai Lan, Reiji Kubota, Tetsuro Agusa, Nguyen Thi Minh Hue, Tran Thi Hao, Bui Hong Nhat, Pham Thi Dau, Dao Manh Phu, Michael Berg, Pham Hung Viet, Shinsuke Tanabe</i>	71
Polycyclic aromatic hydrocarbons and nitro-polycyclic aromatic hydrocarbons in urban air particulate matter in Ho Chi Minh City, Viet Nam <i>Hien Thi To, Thanh Tu Le, Yasuhiro Sadanaga, Norimichi Takenaka, Hiroshi Bando</i>	77
Comparison of three digestion methods for soil arsenic determination. Application for Ho Chi Minh City soil arsenic analysis <i>Bui Cach Tuyen, Nguyen Vinh Quy, Nguyen Ngoc Ha, Nguyen Phuc Cam Tu</i>	83

Overview of arsenic contamination in groundwater and human health risk in Vietnam <i>Tetsuro Agusa, Suguru Inoue, Takashi Kunito, Tu Binh Minh, Nguyen Phuc Cam Tu, Nguyen Ngoc Ha, Pham Thi Kim Trang, Annamalai Subramanian, Hisato Iwata, Pham Hung Viet, Bui Cach Tuyen, Shinsuke Tanabe</i>	89
Pollution by persistent toxic substances in Vietnam: A review of two decade monitoring studies <i>Tu Binh Minh, Nguyen Hung Minh, Tetsuro Agusa, Hisato Iwata, Shin Takahashi, Pham Hung Viet, Bui Cach Tuyen, Shinsuke Tanabe</i>	93
Secondary generation of gaseous HONO and its effect on our health <i>Norimichi Takenaka, Makoto Hiroi, Hiroyasu Koteishi, Yasuhiro Sadanaga, Masayuki Oyama, Hiroshi Bandow</i>	103
The variation of quality and current situation of arsenic in the pleistocene aquifer - Mekong Delta <i>Nguyen Viet Ky, Dong Uyen Thanh</i>	109
Preliminary numerical research on flow patterns of sea - and fresh-water in the Tam Giang, Thuy Tu and Cau Hai lagoons in a tidal system <i>Viet Son Le, Yasunori Watanabe, Harukuni Tachibana, Akio Mori</i>	117
Development of portable gas sampling equipment to measure VOC emissions from a two-wheeled Vehicle <i>Akira Kondo, Akikazu Kaga, Yoshio Inoue, Sumihiro Higuchi</i>	121
 Topic 2	
A Study on a reevaluation of the old apartment complexes in Hanoi <i>Eriko Oka, Kunihiro Narumi, Masanori Sawaki</i>	125
Integrated assessment of risk level caused by hazards in the coastal zone of Vietnam (cases study: Cam Ranh - Phan Ri coastal zone) <i>Mai Trong Nhuan, Nguyen Tai Tue, Nguyen Thi Hong Hue, Tran Dang Quy, Nguyen Thi Hoang Ha, Dao Manh Tien</i>	133
Development of sound proof windows for house in Vietnam <i>Tsuyoshi Nishimura, Takashi Yano</i>	141
The role of mangroves in mitigating natural disasters <i>Phan Nguyen Hong, Vu Doan Thai</i>	147
Monitoring of the change in coastal environment in southern part of Red-River Delta from satellite images and the mechanism of beach erosion <i>Ichiro Deguchi, Susumu Araki, Takahiro Nakaue, Bui Trong Vinh</i>	157
Characteristics of quaternary sedimentary facies in relation to water bearing capacity of aquifers and aquicludes in Red River Delta, Vietnam <i>Tran Nghi, Dang Mai, Nguyen Thanh Lan, Tran Thi Luu</i>	167
Mathematical structure for forest dynamics and its applications <i>Le Huy Chuan, Atsushi Yagi</i>	175
The infrastructure and environment in the old tenements in Hanoi <i>Truong Quang Hai, Nguyen Cao Huan, Kunihiro Narumi, Tran Anh Tuan, Bui Minh Tri</i>	179
Geo-ecological rehabilitation of the mangrove forest in Can Gio District, Vietnam <i>Toyohiko Miyagi, Vien Nock Nam, Kazunari Hayashi, Ayako Saitoh</i>	187

Development and application of the environmental hydrodynamic 3D model for computation and forecasting of oil pollutions in coastal marine environment <i>Dinh Van Uu, Ha Thanh Huong, Pham Hoang Lam</i>	191
Convolution for the transform induced by Fourier integral transform and its inverse <i>Nguyen Xuan Thao, Nguyen Minh Tuan, Bui Thi Giang</i>	201
Importance of cross-cultural studies for a global noise policy <i>Takashi Yano, Tetsumi Sato, Takashi Morihara</i>	213
Environmental issues in the development of the aquaculture farming economy in Vietnam <i>Le Van Thang</i>	223
A social survey on community response to road traffic noise in Hanoi <i>Phan Thi Hai Yen, Phan Thi Hai Anh, Tsuyoshi Nishimura, Pham Ngoc Dang, Pham Duc Nguyen, Le Van Nai, Yoriyuki Hashimoto, Tetsumi Sato, Tran Duy Cuong, Takashi Yano</i>	233
Biostimulation method in shoreline clean-up – An approach of coastal environment management in response to oil-spill hazard – Case study Ganh Rai Gulf- Viet Nam <i>Huyhnh Thi Minh Hang, Do Hong Lan Chi, Bui Trong Vinh</i>	245
Trials of mangrove plantation at mudflats suffering from rough waves and strong winds <i>Yoshiaki Kitaya, Vien Ngoc Nam, Toyohiko Miyagi</i>	255
Marine resources and environment of Vietnam, development opportunities and challenges <i>Dinh Van Thanh</i>	261
Investigation and research of landslide geohazard in north-western part of Vietnam for the sustainable development of the territory <i>Nguyen Van Can, Dao Van Thinh</i>	269
Topic 3	
Denitrification treatment of nitrified Hanoi groundwater using swim bed technology <i>Kenji Furukawa, Ryuichi Kanda, Doan Thu Ha</i>	283
An evidence for the contribution of ANAMMOX process in nitrogen removal from groundwater <i>Cao The Ha, Le Van Chieu, Kieu Anh Trung, Cao The Anh, Pham Trung Quan, Kenji Furukawa, Pham Khac Lieu, Takao Fujii</i>	293
Prospects of activated sludge process in Japan –Its past, present, and future- <i>Masanori Fujita</i>	301
Nitrogen ammonia removal from groundwater by nitrification – denitrification process with a novel acryl biofilm carrier material <i>Nguyen Viet Anh, Pham Thuy Nga, Nguyen Huu Thang, Nguyen Van Tin, Tran Duc Ha, Tran Hieu Nhue, Leu Tho Bach, Kenji Furukawa</i>	303
COD removal by lab-scale membrane activated sludge process from leachate of Go Cat landfill in Ho Chi Minh City <i>Satoshi Soda, Nguyen Nhu Sang, Kazunari Sei, Tomonori Ishigaki, Lam Minh Triet, Michihiko Ike, Masanori Fujita</i>	315
Development of a novel nitrogen removal process using ANAMMOX and partial nitrification and its applicability to landfill leachate <i>Pham Khac Lieu, Hiroyuki Tokitoh, Hayato Homan, Atsuhiko Kurogi, Kenji Furukawa</i>	323

Septic tanks need urgent Improvement for management of urban sanitation in Hanoi Vietnam <i>Hidenori Harada, Tomonari Matsuda, Nguyen The Dong, Nguyen Thi Kim Thai, Saburo Matsui</i>	331
Arsenic removal from groundwater by a combination of chlorination and consecutive sand filtration <i>Le Van Chieu, Vu Ngoc Duy, Cao The Ha, Vo Thi Thanh Tam, Truong Thi Mien, Michael Berg, Urs von Gunten</i>	343
Accelerated aromatic compounds degradation in aquatic environment by use of interaction between <i>Spirodela polyrrhiza</i> and bacteria in its rhizosphere <i>Kazunari Sei, Tadashi Toyama, Ning Yu, Hirohide Kumada, Michihiko Ike, Masanori Fujita</i>	349
Study on applicability of the contact oxidation process in removal of organic pollutants from textile wastewater <i>Nguyen The Dong, Phan Do Hung, Nguyen Huu Trung, Dao Hai Yen</i>	359
Simultaneous removal of ammonia and organic matters from ground water by combination of adsorption and biological treatment preparation of bioporous activated carbon from rice husks and its characterization <i>Le Van Cat, Tran Thi Kim Hoa</i>	365
Physical compositions of municipal solid waste and recyclable waste discharged from households in Hanoi, Vietnam <i>Kosuke Kawai, Nguyen The Dong, Nguyen Thi Kim Thai, Saburo Matsui</i>	373
Combustion of LPG-air lean mixture: A solution for pollution reduction of motorcycles in Vietnam <i>Bui Van Ga, Tran Van Nam</i>	381
Removal of dissolved metal ions by biogenic manganese oxides produced by enrichment cultures of manganese-oxidizing bacteria <i>Naoyuki Miyata, Yukinori Tani, Daisuke Sugiyama, Masahiro Sakata, Keisuke Iwahori</i>	389
Characteristics and quantities of domestic wastewater in urban and peri-urban households in Hanoi <i>Sybille Büsser, Pham Thuy Nga, Antoine Morel, Nguyen Viet Anh</i>	395
Changing road traffic noise in Hanoi of previous 10 years <i>Pham Ngoc Dang, Pham Ngoc Hong</i>	399
Generation of <i>Bacillus subtilis</i> clone displaying metal-binding polyhistidyl peptide <i>Nguyen Duc Hoang, Nguyen Quynh Anh, Dang Vu Bich Hanh, Toshihiko Ooi, Tran Linh Thuoc</i>	405
Microbial diversity in trace water of jet fuel in Vietnam <i>Lai Thuy Hien, Pham Thi Hang, Vuong Thi Nga, Hoang Hai, Nobuyasu Yamaguchi, Katsuji Tani</i>	413

## Indexes

Subject Indexes	423
Name Indexes	428