

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910673902603321  |
| Titolo                  | Ecological Monitoring, Assessment, and Management in Freshwater Systems // Soon-Jin Hwang, Young-Seuk Park, editor   |
| Pubbl/distr/stampa      | Basel, Switzerland : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2016   |
| Descrizione fisica      | 1 online resource (1 page)   |
| Disciplina              | 577.7  |
| Soggetti                | Marine ecosystem management  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | List of Contributors. VII -- About the Guest Editors.XI -- Preface to "Ecological Monitoring, Assessment, and Management in Freshwater Systems" .XIII -- Young-Seuk Park and Soon-Jin Hwang Ecological Monitoring, Assessment, and Management in Freshwater Systems Reprinted from: Water 2016, 8(8), 324 <a href="http://www.mdpi.com/2073-4441/8/8/3241">http://www.mdpi.com/2073-4441/8/8/3241</a> -- Jens Arle, Volker Mohaupt and Ingo Kirst Monitoring of Surface Waters in Germany under the Water Framework Directive-A Review of Approaches, Methods and Results Reprinted from: Water 2016, 8(6), 217 <a href="http://www.mdpi.com/2073-4441/8/6/2178">http://www.mdpi.com/2073-4441/8/6/2178</a> -- Meilan Jiang, Karpjoo Jeong, Jung-Hwan Park, Nan-Young Kim, Soon-Jin Hwang and Sang-Hun Kim Open, Sharable, and Extensible Data Management for the Korea National Aquatic Ecological Monitoring and Assessment Program: A RESTful API-Based Approach Reprinted from: Water 2016, 8(5), 201 <a href="http://www.mdpi.com/2073-4441/8/5/20139">http://www.mdpi.com/2073-4441/8/5/20139</a> -- Byungwoong Choi, Sung-Uk Choi and Hojeong Kang Transferability of Monitoring Data from Neighboring Streams in a Physical Habitat Simulation Reprinted from: Water 2015, 7(8), 4537-4551 <a href="http://www.mdpi.com/2073-4441/7/8/453774">http://www.mdpi.com/2073-4441/7/8/453774</a> -- Bin Li, Kozo Watanabe, Dong-Hwan Kim, Sang-Bin Lee, Muyoung Heo, Heui-Soo Kim and Tae-Soo Chon Identification of Outlier Loci Responding to Anthropogenic and Natural Selection Pressure in Stream Insects Based on a Self-Organizing Map Reprinted from: Water 2016, 8(5), 188 <a href="http://www.mdpi.com/2073-4441/8/5/18890">http://www.mdpi.com/2073-4441/8/5/18890</a> -- Yung-Chul Jun, Nan- |

Young Kim, Sang-Hun Kim, Young-Seuk Park, Dong-Soo Kong and Soon-Jin Hwang Spatial Distribution of Benthic Macroinvertebrate Assemblages in Relation to Environmental Variables in Korean Nationwide Streams Reprinted from: *Water* 2016, 8(1), 27 <http://www.mdpi.com/2073-4441/8/1/27120> -- Mateusz Grygoruk, Magdalena Frak and Aron Chmielewski Agricultural Rivers at Risk: Dredging Results in a Loss of Macroinvertebrates. Preliminary Observations from the Narew Catchment, Poland Reprinted from: *Water* 2015, 7(8), 4511-4522 <http://www.mdpi.com/2073-4441/7/8/4511148> -- Mi-Jung Bae, Jung Hwa Chun, Tae-Soo Chon and Young-Seuk Park Spatio-Temporal Variability in Benthic Macroinvertebrate Communities in Headwater Streams in South Korea Reprinted from: *Water* 2016, 8(3), 99 <http://www.mdpi.com/2073-4441/8/3/99161> -- Hyun-Ju Lee, Kun-Woo Chun, Christopher L. Shope and Ji-Hyung Park Multiple Time-Scale Monitoring to Address Dynamic Seasonality and Storm Pulses of Stream Water Quality in Mountainous Watersheds Reprinted from: *Water* 2015, 7(11), 6117-6138 <http://www.mdpi.com/2073-4441/7/11/6117180> -- Haoran Wang, Yongcan Chen, Zhaowei Liu and Dejun Zhu Effects of the "Run-of-River" Hydro Scheme on Macroinvertebrate Communities and Habitat Conditions in a Mountain River of Northeastern China Reprinted from: *Water* 2016, 8(1), 31 <http://www.mdpi.com/2073-4441/8/1/31203> -- Dong-Hwan Kim, Tae-Soo Chon, Gyu-Suk Kwak, Sang-Bin Lee and Young-Seuk Park Effects of Land Use Types on Community Structure Patterns of Benthic Macroinvertebrates in Streams of Urban Areas in the South of the Korea Peninsula Reprinted from: *Water* 2016, 8(5), 187 <http://www.mdpi.com/2073-4441/8/5/187225> -- Sun-Ah Hwang, Soon-Jin Hwang, Se-Rin Park and Sang-Woo Lee Examining the Relationships between Watershed Urban Land Use and Stream Water Quality Using Linear and Generalized Additive Models Reprinted from: *Water* 2016, 8(4), 155 <http://www.mdpi.com/2073-4441/8/4/155248> -- Young-Jin Yun and Kwang-Guk An Roles of N:P Ratios on Trophic Structures and Ecological Stream Health in Lotic Ecosystems Reprinted from: *Water* 2016, 8(1), 22 <http://www.mdpi.com/2073-4441/8/1/22269> -- Kyoung-Jin An, Sang-Woo Lee, Soon-Jin Hwang, Se-Rin Park and Sun-Ah Hwang Exploring the Non-Stationary Effects of Forests and Developed Land within Watersheds on Biological Indicators of Streams Using Geographically-Weighted Regression Reprinted from: *Water* 2016, 8(4), 120 <http://www.mdpi.com/2073-4441/8/4/120295> -- Ji Yoon Kim and Kwang-Guk An Integrated Ecological River Health Assessments, Based on Water Chemistry, Physical Habitat Quality and Biological Integrity Reprinted from: *Water* 2015, 7(11), 6378-6403 <http://www.mdpi.com/2073-4441/7/11/6378324> -- Katarzyna Glinska-Lewczuk, Pawe Burandt, Roman Kujawa, Szymon Kobus, Krystian Obolewski, Julita Dunalska, Magdalena Grabowska, Sylwia Lew and Jarosaw Chormanski Environmental Factors Structuring Fish Communities in Floodplain Lakes of the Undisturbed System of the Biebrza River Reprinted from: *Water* 2016, 8(4), 146 <http://www.mdpi.com/2073-4441/8/4/146353> -- Jeong-Hui Kim, Ju-Duk Yoon, Seung-Ho Baek, Sang-Hyeon Park, Jin-Woong Lee, Jae-An Lee and Min-Ho Jang An Efficiency Analysis of a Nature-Like Fishway for Freshwater Fish Ascending a Large Korean River Reprinted from: *Water* 2016, 8(1), 3 <http://www.mdpi.com/2073-4441/8/1/3382> -- Darren Drapper and Andy Hornbuckle Field Evaluation of a Stormwater Treatment Train with Pit Baskets and Filter Media Cartridges in Southeast Queensland Reprinted from: *Water* 2015, 7(8), 4496-4510 <http://www.mdpi.com/2073-4441/7/8/4496> 404.

associated ecosystem services are hot issues with ever-growing attention placed upon them. We are increasingly recognizing that they are crucial for the survival of the aquatic biota and human beings on our planet. The efficient monitoring of water resources is fundamental for effective management of water quality and aquatic ecosystems. The first stage in sustainable ecosystem management is the evaluation of the current status of target ecosystems. Traditionally, and even today, physico-chemical parameters have mainly been used to evaluate the quality of water resources. However, they have a large limit to grab the wholeness of water system, particularly in the sense of ecosystem health and integrity, for which ecological monitoring should be based on biological factors. Various approaches are applicable to ecosystem health assessment at different levels of the biological hierarchy, from genes to ecosystems. This Special Issue is designed to improve scientific understanding and strategies for sound aquatic ecosystem management and services for researchers, decision makers, and stakeholders.

---