

MU
J80/eeea



AMERICAN SOCIETY OF CIVIL ENGINEERS

July 2013 • Volume 139, Number 7
ISSN 0733-9372 • CODEN: JOEEDU



Journal of Environmental Engineering

Technical Papers

- 923 Determination of Porosity and Thickness of Biofilm Attached on Irregular-Shaped Media
Meng Hu, Tian C. Zhang, John Stansbury, Jill Neal, and Edward J. Garboczi
- 932 Comparison of Maintenance Cost, Labor Demands, and System Performance for LID and Conventional Stormwater Management
James J. Houle, Robert M. Roseen, Thomas P. Ballesteros, Timothy A. Puls, and James Sherrard Jr.
- 939 Novel Fluidic Control System for Stacked Rapid Sand Filters
Michael J. Adelman, Monroe L. Weber-Shirk, Jeffrey C. Will, Anderson N. Cordero, William J. Maher, and Leonard W. Lion
- 947 Modeling of Water Quality Parameters Using Data-Driven Models
H. Orouji, O. Bozorg Haddad, E. Fallah-Mehdipour, and M. A. Mariño
- 958 Pilot-Scale Evaluation of GAC Adsorption Using Low-Cost, High-Performance Materials for Removal of Pesticides and Organic Matter in Drinking Water Production
Thi Thuy Pham, Viet Anh Nguyen, and Bart Van der Bruggen
- 966 Fenton and Photo-Fenton Oxidation of Petroleum Aromatic Hydrocarbons Using Nanoscale Zero-Valent Iron
Mohammad Alizadeh Fard, Ali Torabian, Gholam Reza Nabi Bidhendi, and Behnoush Aminzadeh
- 975 Silica Adsorbents and Peroxide Functionality for Removing Paraquat from Wastewater
Shama F. Barna, Elizabeth A. Ott, Thu H. Nguyen, Mark A. Shannon, and Alexander Scheeline
- 986 Porosity, Flow, and Filtration Characteristics of Frustum-Shaped Ceramic Water Filters
Ismail Yakub, Anand Plappally, Megan Leftwich, Karen Malatesta, Katie C. Friedman, Sam Obwoya, Francis Nyongesa, Amadou H. Maiga, Alfred B. O. Soboyejo, Stefanos Logothetis, and Wole Soboyejo



ENVIRONMENTAL &
WATER RESOURCES
INSTITUTE

contents continue on back cover

contents continued from front cover

- 995 Adsorption of Fluoride from Water Using Sintered Clay-Hydroxyapatite Composites
Ismaiel Yakub and Wole Soboyejo
- 1004 Treatment of Restaurant Wastewater by Pilot-Scale Electrocoagulation-Electroflotation: Optimization of Operating Conditions
Xusong Qin, Bin Yang, Furong Gao, and Guohua Chen

Technical Notes

- 1017 Evaluation of a Prediction Model for Influent Pharmaceutical Concentrations
Karl J. Ottmar, Lisa M. Colosi, and James A. Smith



AMERICAN SOCIETY OF CIVIL ENGINEERS
1801 Alexander Bell Drive
RESTON, VA 20191-4400



0733-9372(201307)139:7;1-V