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Heavy metals in seawater from Marmara sea, Istanbul

Gokberk Kara, Esin Bozkurt Kopuz, Oner Eliri and **Mehmet Kesiktas**
Marmara University, Turkey

In Istanbul, where dense industrialization and dense population are located, people can use Marmara Sea for recreational reasons. The beaches in which they interacted with the sea were selected primarily for the determination of heavy metal pollution. This study proposed to investigate the quality of seawater to protect health of people which do recreational activities such as swimming. Cr, and Zn concentrations and pH, temperature in seawater samples taken weekly from Kucuksu, Fenerbahce and Suadiye beaches in Asian side of Istanbul were investigated between 9 February 2009 and 4 May 2009. Measured temperature values varied from 7.1 to 27.6^{0}C and measured pH values varied from 8.15 to 8.47. The Cr and Zn concentrations analyzed by the Inductively Coupled Plasma Mass Spectrometry (ICP-MS) were under the limit values by the Turkish Water Pollution Control Regulation published by the Ministry of Environment and Urbanization. These findings indicate that there is no significant threat to aquatic life and human health from these heavy metals in sea water in Marmara Sea.

Biography

Gokberk Kara has completed his under-graduation in the Environmental Engineering Department of Sakarya University in 2007. He is a Master's degree student in Environmental Engineering Department of Marmara University and is also working at the RSK Environmental Consultancy Service in Istanbul, Turkey.

gokberk39@gmail.com

Notes:

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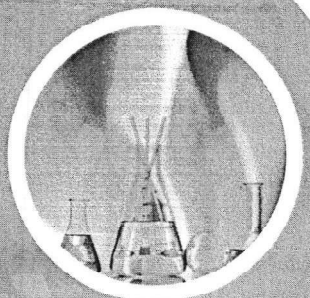
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6th International Conference on
ENVIRONMENTAL CHEMISTRY AND ENGINEERING

July 24-26, 2017 Rome, Italy







Day 1 July 24, 2017

07:30-08:30 Registrations

Olimpica 2

08:30-08:40 **Opening Ceremony**

Keynote Forum

Introduction

08:40-09:25 **Title: Greener strategies for organics and nanomaterials: sustainable applications of magnetic nanocatalysts and modified graphitic carbon nitrides**
Rajender S. Varma, Palacky University, Czech Republic and Cincinnati, USA

09:25 -09:50 **Title: Valorizing Lignin**
Arthur Ragauskas, The University of Tennessee, USA

09:50-10:15 **Title: Novel heterogeneous catalysts and processes for biomass derivatives transformations into fuels and chemicals**
Marcelo E. Domine, Instituto de Tecnología Química (UPV - CSIC), Spain

10:15-10:40 **Title: Ionically conducting materials as effective catalyst supports with potential implementations in emissions control catalysis**
Ioannis V Yentekakis, Technical University of Crete, Greece

Networking & Refreshments 10:40-10:55 @ Foyer

Sessions: Green Catalysis | Green Synthesis/Reactions | Green Chemistry

Session Chair: Shuji Akai, Osaka University, Japan

Session Co-chair: Karine de Oliveira Vigier, University of Poitiers, France

Session Introduction

10:55- 11:15 **Title: Lipase-metal integrated catalysis for quantitative conversion of racemic alcohols into optically pure compounds**
Shuji Akai, Osaka University, Japan

11:15-11:35 **Title: Catalytic conversion of carbohydrates in the presence of choline chloride : Use of deep eutectic solvents**
Karine de Oliveira Vigier, University of Poitiers, France

11:35-11:55 **Title: Elucidation of the electronic structure of metal-oxo reactive species in porous media for the oxidation of methane and ethane**
Konstantinos D. Vogiatzis, The University of Tennessee, USA

11:55-12:15 **Title: Readily available homogeneous and heterogeneous catalysts for the cycloaddition of CO_2 to epoxides: A low carbon-footprint perspective**
Valerio D' Elia, Vidyasirimedhi Institute of Science and Technology, Thailand

12:15-12:35 **Title: A single enzymatic approach for deracemization of secondary alcohols**
Musa M. Musa, King Fahd University of Petroleum and Minerals, Saudi Arabia

12:35- 12:55 **Title: Flow microreactors enables green chemistry approach for organolithium chemistry**
Aiichiro Nagaki, Kyoto University, Japan

12:55-13:15 **Title: Expanding the reaction space of aldolases using hydroxypyruvate as a nucleophilic substrate**
Virgil Helaine, Université Clermont Auvergne, France

Group Photo

Lunch Break 13:15-14:00 @ Hotel Restuarant

Sessions: Environmental Chemistry | Environmental Toxicology and Mutagenicity | Renewable Energy Sources and Storages

Session Chair: Angelo Nacci, University of Bari, Italy

Session Co-chair: Maria Michela Dell'Anna, Polythecnic University of Bari, Italy

Session Introduction

14:00-14:20	Title: An assessment of air quality in the surrounding holy places of Mecca, Saudi Arabia during Hajj **Haider A Khwaja**, University at Albany, USA
14:20-14:40	Title: Nanostructured materials for green catalysis **Angelo Nacci**, University of Bari, Italy
14:40-15:00	Title: Carbon-enhanced manufacturing and digitalization supporting cycle economy **Dominik Rohrmus**, Siemens AG, Germany
15:00-15:20	Title: Catalytic activity and recyclability of polymer supported palladium or nickel nanoparticles in organic reactions in water **Maria Michela Dell'Anna**, Polythecnic University of Bari, Italy
15:20-15:40	Title: A novel mechanism for BPA-triggered hepatic steatosis **Sijun Dong**, Institute of Urban Environment - CAS, China
15:40-16:00	Title: Electrocatalytic production of hydrogen using iron sulfur cluster **Khalaf M Alenezi**, University of Hail, KSA

Networking & Refreshments Break: 16:00-16:15 @ Foyer

16:15-16:35	Title: Heavy metals in seawater from Marmara sea, Istanbul **Gökberk Kara**, Marmara University, Turkey
16:35-16:55	Title: Dosing of proper oxidizing agents pretreatment to Kalatuwawa water to reduce the Trihalomethane (THM) formation in drinking water **Jayalal L P R Wijesinghe**, National Water Supply and Drainage Board, Sri Lanka
16:55-17:15	Title: Preparation of Yb^{3+} doped microspherical BiOI and its photocatalytic activity for the degradation of rhodamine B in water **Linping Zhang**, Donghua University, China
17:15-17:35	Title: Concentration, temperature and kinetics studies of *Kola nitida* leaves extract in corrosion prevention **Adebayo Oluwafemi Lawrence**, College of Education Ikere, Nigeria
17:35-17:55	Title: Assessment of Polynuclear Aromatic Hydrocarbons (PAHs) in local steak (suya) samples in Makurdi town, Benue State-Nigeria **Ubwa S T**, Benue State University, Nigeria
17:55-18:15	Title: Using electrocoagulation to remove chloride and ammonium from reject brine treated by solvay process **Miada A Ali**, United Arab Emirates University, UAE

Panel Discussion

Day 2 July 25, 2017

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Keynote Forum

	Introduction
08:30 -08:55	Title: Toward carbon fibers from single component kraft lignin systems: An application of green chemistry with forest biomaterials **Dimitris S. Argyropoulos**, North Carolina State University, USA
08:55- 9:20	Title: C-H free metal-organic green catalysts **Sergiu. M. Gorun**, Seton Hall University, USA