WATER QUALITY IN ISTANBUL, MARMARA SEA

Esin BOZKURT KOPUZ[1], Gökberk KARA[2]

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Abstract

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. In this study, the quality of sea waters used for recreational purposes such as swimming was investigated in terms of human health. Temperature, pH, conductivity, dissolved oxygen were measured in Kucuksu, Fenerbahce and Suadiye beaches in Istanbul Anatolian side. Weekly measurement values were recorded 18 November 2019 to 31 January 2019. The water pollution was investigated with the limit values in the Turkish Water Pollution Control Regulation published by the Ministry of Environment and Urbanization.

Key Words: *Marmara Sea, sea water quality, beaches, pH, recreation*

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ABSTRACTS BOOK

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22 APRIL 2019 MONDAY

08:30-17:00 **: REGISTRATION**

MAIN HALL **: OPENING CEREMONY**

09:30 – 09:40
Welcome Speech **: Assoc. Prof. Dr. Dolunay SAKAR DASDAN / Yildiz Technical University**
Conference Chair

09:40 – 10:30
KEYNOTE SPEAKER **:Prof.Dr.Sotiris HADJIKAKOU**
Speech Title **: Conjugates of Non Steroidal Anti-inflammatory Drugs or Antibiotics, with metal ions (CoMeD's) towards the discovery and development of new therapeutic agents.**

10:30 – 10:40	**C O F F E E / T E A B R E AK**

HALL 1 / SESSION A (ACID)

SESSION CHAIR	**Prof.Dr. Sotiris HADJIKAKOU**	
TIME	**PAPER TITLE**	**PRESENTER** / CO AUTHOR
10:40 – 11:00	CO-Releasing Properties and Local Reactivity Descriptors of New $Re(CO)_3$(benzylbenzimidazole)(bpy)]OTf	**Elvan USTUN**
11:00 – 11:20	Production and *In Vitro* Characterization of Variously Doped and Formed S53p4 Bioactive Glass	**Efsun SENTURK**, Cem Batuhan CEVLIK, Ali Can OZARSLAN, Burcu KARAKUZU IKIZLER, Yeliz BASARAN ELALMIS, Sevil YUCEL
11:20 – 11:40	Binary Biomaterials (Inorganic material / Natural resin): Synthesis, Characterization and Performance for Adsorption of Dyes	**Sedef SISMANOGLU**, Hakan DURAN, Tuba SISMANOGLU
11:40 – 12:00	Effects of The Some Parameters on The Astaxanthin Productivity From *Haematococcus Pluvialis* Algae	Muharrem BOGOCLU, **Ceren KECECILER**, Cem ÖZEL, Bilge Sema TEKEREK, Sevil YÜCEL
12:00 – 12:20	Effects of Flue Gas As a CO_2 Source on The Cultivation of *Chlorella Protothecoides*	**Cem ÖZEL**, Muharrem Erdem BOĞOÇLU, Ceren KEÇECİLER, Ecem KAPLAN, Sevil YÜCEL
12:20 – 12:40	Thermoelectric Properties Of Poly (3,4-Ethylene Dioxythiophene)/Titanium Disulphide Composite	Naseer Subhi AHMED, **Ferdane KARAMAN**

12:40 – 13:40	**LUNCH**

HALL 1 / SESSION B (BLOOMING)

SESSION CHAIR	Prof.Dr.Sevil Yücel	
TIME	**PAPER TITLE**	**PRESENTER** / CO AUTHOR
13:40 – 14:00	Influences of Some 2-Aminothiazole Derivatives on Glutathione Reductase Activity	**Hasan KARADAG**, Emine EROGLU, Cumhur KIRILMIS
14:00 – 14:20	Preparation and characterization of bismuth oxychloride nanoparticles for the development of Photocatalytic performance	Bilal İbrahim DAN-IYA, **G. Selda POZAN SOYLU**
14:20 – 14:40	The Influence of Chemical Composition on Peroxidation Kinetics of Palm and Nut Oils	**Temel Kan BAKIR**
14:40 - 15:00	Kinetics and mechanism of pyridine substitution of [(^{3}-C_3H_5)Mo(CO)$_2$(X)(py)$_2$] (X = Cl, Br; py = pyridine) by1,10-phenanthroline	**Khalil J. ASALI**

15:00 – 15:20	**C O F F E E / T E A B R E AK**

HALL 1 / SESSION C (CATALYSIS)

SESSION CHAIR	Dr.Esin BOZKURT KOPUZ	
TIME	**PAPER TITLE**	**PRESENTER** / CO AUTHOR
15:20 – 15:40	Steric and Electronic Requirements for Atropisomerization in Heterocyclic Analogues of Biaryls	**Ilknur DOGAN**
15:40 – 16:00	Investigation of changes in antioxidant activity of some *Pleurotus* species by using composts including different metal salts	**Mertcan KARADENIZ**, Temelkan BAKIR, Sabri UNAL
16:00 – 16:20	Single Enantiomer Thioureas As Chiral Solvating Agents	**Sule EROL GUNAL**
16:20 – 16:40	Non Linear Phenomena in Cellular Automata Simulations of Metal Corrosion and Passivity	Jan STĘPIEŃ, **Janusz STAFIEJ**
16:40 – 17:00	Investigation of Sensitivity Precision of Smaller Particles Through The Asymmetric Nanopo	**Dürdane YILMAZ**, Dila Kaya, Kaan Kececi, Ali DİNLER
17:00 – 17:20	Fabrication, Modification and Sensing Behaviour of Quartz Micro/ Nanopipettes	**Dila KAYA**, Kaan KECECI
17:20 - 17:40	Discrete-Time Controllers For Temperature Control of A Polystyrene Polymerization Reactor	**Semin ALTUNTAŞ**, Hale HAPOĞLU, Gülay ÖZKAN
18:00 – 18:20	Varying the Granulometric Composition of an Electromelted Corundum Based Ceramic with A Porcelain Binder To Control Its Open Porosity and Strength	**Zaw Ye Maw Oo**

23 APRIL 2019 TUESDAY

08:30-17:00 : REGISTRATION

HALL 1 / SESSION D (DILUENT)

SESSION CHAIR	Assoc.Prof.Dr.Emel AKYOL	
TIME	**PAPER TITLE**	**PRESENTER** / CO AUTHOR
09:00 – 09:20	Nanoencapsulation of polar bioactive compound	**Flavio MASSIGNAN**, Éva KISS
09:20 – 09:40	Removal of Bentazon and Metalaxyl Pesticides From Aqueous Solutions By Almond and Chestnut Shells: Optimization, Kinetics and Isotherm Studies	Barış DİLER, **Dilek KILIÇ APAR**
09:40 – 10:00	Absorbtion of Glyphosate-Ipa Herbicide on Mesoporous Silica Nanoparticules	**Birsen Sengul OKSAL,** Yunus SENTURK
10:00 – 10:20	Degradation Mechanism of Capsaicin Molecule in gaseous phase: Moleculer Modeling and DFT study	**Bahar EREN,** Yelda YALCIN GURKAN, and Yasemin IYIDOGAN
10:20 - 10:40	Structural and electronic properties of layered semiconductor chalcogenide crystals: $TlGaSe_2$, $TlGaS_2$, and $TlInS_2$	**Burak GURKAN,** Savas BERBER
10:40 – 11:00	Water Quality In Istanbul, Marmara Sea	**Esin BOZKURT KOPUZ,** Gökberk KARA

11:00 – 11:20	**C O F F E E / T E A B R E AK**

HALL 1 / SESSION E (ELECTRON)

SESSION CHAIR	Assoc.Prof.Dr.Nuriye AKBAY	
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11:20 – 11:40	Interaction of Insoluble Silica Gel Derivatives With Signaling Nucleotide of Bacteria	Secil TURKSOY, Merve BICER, **Gokce MEREY**
11:40 – 12:00	The Treatment of Detergent Industry Wastewaters By Supercritical Water Oxidation	**Ekin KIPÇAK**, Sema ŞENTÜRK, Mesut AKGÜN
12:00 – 12:20	In Situ Synthesis Of Triglyceride Oil Based Polymer Clay Nanocomposite	A. Tuncer ERCIYES, Yagmur BAYRAM, **Emel AKYOL**
12:20 – 12:40	Biosorption of Remazol Orange Rgb By Kefir Biomass Under Sonication	**Hatice MUTLU**, Dilek KILIÇ APAR
12:40 – 13:00	Ag Particles Deposition on Polyacrylonitrile Fibers Grafted By Acrylamide, Acrylamide-Itaconic Acid and Acrylamide-Maleic Acid	Zeynep OKAY, **Meryem KALKAN ERDOĞAN**, Meral KARAKIŞLA and Mehmet SAÇAK

13:00 – 14:00	**LUNCH**

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SESSION CHAIR	Dr.Flavio MASSIGNAN	
TIME	**PAPER TITLE**	**PRESENTER** / CO AUTHOR

14:00 – 14:20	Preparation of A Novel Gold Nanocluster-Based Biosensor Using Egg White Protein and Its Application for Measuring Prooxidant Activity	**Esin AKYÜZ**, Furkan Burak ŞEN, Mustafa BENER, Kevser Sözgen BAŞKAN, Esma TÜTEM, Reşat APAK
14:20 – 14:40	Temperature Controled Infrared Drying Kinetics of Mussels	Sema SEVIM, Emek DERUN, Nurcan TUGRUL, Ibrahim DOYMAZ, **Azmi Seyhun KIPCAK**
14:40 – 15:00	A highly selective non-enzymatic H_2O_2 sensor supported on Eupergit CM decorated with PdMoAg nanoparticles	**Hilal ÇELİK KAZICI**, Fırat SALMAN, Mehmet Sait İZGİ, Ömer ŞAHİN
15:00 – 15:20	Development of Chitosan-Based Edible Biocomposite Films Incorporated with Kumquat Peels Extract as Food Packaging	Fatmagül ŞAHIN, **İlknur KÜÇÜK** and İbrahim DOYMAZ
15:20 – 15:40	A Theoretical Study of The Reaction of Dimethyl Phosphoramidate With Hydroxyl Radicals	**Seyda AYDOGDU**, Arzu HATIPOGLU
15:40 – 16:00	Increased Solubility And Efficacy of Water Insoluble Flavonoids With N,N-Dimethylalkyl Groups Carrying Calix[N]Arenes	**Serdar KARAKURT**, Mehmet OGUZ, Mustafa YILMAZ

16:00 – 16:20	**C O F F E E / T E A B R E AK**

HALL 1 / SESSION G (GRAVITY)

SESSION CHAIR	**Prof.Dr.Khalil J. ASALI**	
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16:40 – 17:00	Silver Nanoparticles as a scavenging material for new assay for polyphenols metal scavenging activity	**Abdelaziz ELGAMOUZ**, Alaa Alsaidi, Rana Alsaidi, Chahlaa Naser Nassab
17:00 – 17:20	Determination and Comparision Solution Properties Of Manganese-Based Photoactivatable CO-Releasing Imidazole Complexes	Gaye GÜNGÖR**, Dolunay ŞAKAR DAŞDAN,** Elvan ÜSTÜN
17:20 – 17:40	Novel carbon quantum dots and their bioimaging applications	**Fatima OUANZI** , Imre BERTÓTI, Miklós MOHAI, Tamás KOLONITS, Kata HORVÁTI, Szilvia BŐSZE, Gergő GYULAI

HALL 1 / POSTER SESSION H

SESSION CHAIRS	ASSOC.PROF..DR.DİLEK KILIÇ APAR ASSIST.DR.ILKNUR KUCUK Janusz STAFIEJ Abdelaziz ELGAMOUZ Fatima OUANZI	
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An Investigation Of Stability And Activity Of Poly(Methyl Vinyl Ether-Alt-Maleic Anhydride) Copolymer In The Different Phs And Simulated Body Fluids		Ata AKSOY, İmren ÇOTUK ULUSOY, Kadir ÇAKIRAL, **Dolunay ŞAKAR DAŞDAN**
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12:00 – 18:00	**SOCIAL PROGRAM FOR CONFERENCE PARTICIPANTS**

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