



International Conference on
CHEMICAL ENERGY
Semiconductor Photochemistry

4th-6th September 2019

Meeting Program

Wednesday, 04 September 2019	
08:30	-
17:00	Registration
09:30	Official Opening Ceremony
1st Session	
10:20	Chairperson Raşit TURAN
10:20	Invited Lecture İbrahim DİNÇER, <i>Renewable Hydrogen Energy Options for a Sustainable Path</i>
11:00	Coffee Break
11:20	Chairperson Raşit TURAN
11:20	Invited Lecture Volkan FİLİZ, <i>Polymeric Membranes - Materials and Processes in Gas- and Liquid-Phase Separations</i>
12:00	Lunch
2nd Session	
13:45	Chairperson İbrahim DİNÇER
13:45	Invited Lecture Raşit TURAN, <i>Crystalline Si Photovoltaic Solar Cells : Future Perspectives and R&D Activities at METU-GÜNAM</i>
Oral Session	
14:25	Xianzheng MA , <i>Graphene Oxide for Oil and Gas Technologies</i>
14:45	Mustafa Ergin ŞAHİN , <i>A Photovoltaic Powered Electrolysis Converter System with Maximum Power Point Tracking Control</i>
15:05	Coffee Break

3rd Session		
15:20	Chairperson	Volkan FİLİZ
	Invited Lecture	
15:20	Ralf DILLERT , <i>Quantum Yields of Photocatalytic Reactions and Photocatalytic Reactor Design</i>	
Oral Session		
16:00	Chukwuka Bethel ANUCHA , <i>Development of Photocatalytic TiO₂ Washcoats over Porous α-Al₂O₃ Substrates</i>	
16:20	Melik Ziya YAKUT , <i>Use of Nb-TiO₂ Thin Films Prepared by Ultrasonic Spray Pyrolysis Method as Working Electrode in Dye-Sensitized Solar Cells</i>	
19:00	Dinner	
Thursday, 05 September 2019		
4th Session		
09:00	Chairperson	Ralf DILLERT
	Invited Lecture	
09:00	Yusuf MENCELOĞLU , <i>Materials Nanoengineering for Electrochemical Energy Conversion and Storage Technologies</i>	
Oral Session		
09:40	Keziban ATACAN , <i>Performance of Magnetic Ag₂CrO₄/ZnO/MnFe₂O₄ Ternary Nanocomposite for Dye Degradation under Visible-light Driven</i>	
10:00	Illaria BERRUTI , <i>Doped Zinc Oxides for the simultaneous removal of Microorganisms and Contaminants of Emerging Concern from Water</i>	
10:20	Birten ÇAKMAKLI , <i>Poly(3-hydroxybutyrate) (P3HB)/Thermoplastic Polyurethane (TPU) Composites Containing PVDF or BaTiO₃</i>	
10:40	COFFEE BREAK AND POSTER PRESENTATION	
12:00	Lunch	
5th Session		
13:45	Chairperson	Yusuf MENCELOĞLU
	Invited Lecture	
13:45	Bülend ORTAÇ , <i>Nanomaterials Produced with Pulsed Laser Ablation and Their Applications</i>	
Oral Session		
14:25	Fabício Eduardo Bortot COELHO , <i>Photocatalytic Reduction of Cr(VI) in the Presence of Humic Acid Using Ce-ZrO₂ Under Visible Light</i>	
14:45	Mustafa Ergin ŞAHİN , <i>A Hybrid PV- Battery/Supercapacitor System and a Basic Active Power Control Proposal in MATLAB/Simulink</i>	
15:05	Coffee Break	

6th Session		
15:20	Chairperson	Bülend ORTAÇ
	Invited Lecture	
15:20	Paola CALZA , <i>Rare Earth Elements Doped Semiconductors: from Fundamentals to their Exploitation in Sustainable Water Treatments</i>	
	Oral Session	
16:00	Duygu KUZYAKA , <i>Microporous Vanadosilicate AM-6 Thin Films for Photocatalytic Applications</i>	
16:20	Ayşe BERKDEMİR , <i>Multicrystalline Silicon Ingot Production with Directional Solidification for Photovoltaic Cells</i>	
16:40	Sedat SÜRDEM , <i>Synthesis and Characterization of Boron-Containing Acrylated Monomers</i>	
19:00	Gala Dinner	
Friday, 06 September 2019		
7th Session		
09:00	Chairperson	Paola CALZA
	Invited Lecture	
09:00	Mervat EL-HOZ , <i>Opportunities and Challenges of Nanotechnology in Water and Wastewater Treatment</i>	
	Oral Session	
09:40	Ivan Matías SCISCENKO , <i>EEM-PARAFAC as a Novel Technique to Study Fluoroquinolones Degradation by Photolysis and (Photo)-Fenton</i>	
10:00	Kamil KAYGUSUZ , <i>Hydrogen Production from Renewable Energy Sources</i>	
10:20	COFFEE BREAK AND POSTER PRESENTATION	
11:20	Murat KÜÇÜK , <i>Use of Thermogravimetric Analysis (TGA) and Differential Scanning Calorimetry (DSC) in Antioxidant Research of Fatty Foods</i>	
11:40	Melik Ziya YAKUT , <i>Production and Investigation of CdS /CdTe Thin Film Solar Cells by Ultrasonic Spray Pyrolysis Method</i>	
12:00	Lunch	
8th Session		
14:00	Chairperson	Mervat EL-HOZ
	Invited Lecture	
14:00	Sedat SÜRDEM , <i>Organoboron Compounds, Polymers, Applications, and Their Market</i>	
	Oral Session	
14:40	İlknur ALTIN , <i>Photocatalytic Degradation of Bisphenol A under Visible Light Over Graphene Oxide Based Heterojunction CuO-TiO₂ Composite Catalysts</i>	
15:00	Coffee Break	

9th Session

15:20 **Chairperson**

Sedat SÜRDEM

Oral Session

15:20 **Taylan BAŞKAN**, *Determination of the Gamma Ray Mass Attenuation Coefficient of HB(PAE-b-PCL-DI)-PU-OPC Composites Sorbed Se and Pb Atoms*

15:40 **Ayşe AKTAŞ KAMILOĞLU**, *Investigation of Catalytic Activities of Cobalt (II) and Copper (II) Phthalocyanine Compounds on Photocatalytic Degradation Reactions of Different Phenol Compounds*

16:00 **Closing remarks**

18:00 **Dinner**

Saturday, 07 September 2019

Social Program (08:30 - 17:00)