

Scientific Program

3rd Online International Conference on

Recycling and Waste Management

Monday
November 15, 2021

Day 1 - November 15, 2021

10:00 - 10:15 Opening Ceremony and Introduction

Oral Presentations

10:15 - 10:40 Molecular dynamics study of modification assessments between asphalt binder and different oxidative degrees of polyethylene
Taoli Zhang, Kui Hu, Henan University of Technology, China

10:40 - 11:05 Small and medium entrepreneurs' perception of flood loss and damage in Sri Lanka
Vindya Hewawasam, University of Tsukuba, Japan

Workshop

11:05 - 11:35 Prohibition of disposables require approach renovation
Moshe Gophen, Migal-Scientific Research Institute, Israel

Oral Presentations

11:35 - 12:00 Local capacities and challenges for resettling climate victims in the Southeast Coast of Bangladesh
Chakma Kisinger, University of Tsukuba, Japan

12:00 - 12:25 Post-harvest losses and farmers' coping strategies in the Ashanti region of Ghana
Kofi Kyei, University of Tsukuba, Japan

Keynote Presentations

12:25 - 12:55 Bioconversion of lignocellulosic biomass into value-added products
Roshanida A Rahman, Universiti Teknologi Malaysia, Malaysia

12:55 - 13:25 Global environmental development and sustainability: Technology and management
Hosam Bayoumi Hamuda, Obuda University, Hungary

Lunch Break (13:25 - 14:00)

Oral Presentations

14:00 - 14:25 Saturated paste extracts to monitor the variation of soil properties after repeated amendments with urban sewage sludge
Helmi Hamdi, Qatar University, Qatar

14:25 - 14:50 The recovery of valuable compounds from vineyard trimming and pruning wastes
Reelika Rätsep, Estonian University of Life Sciences, Estonia

14:50 - 15:15 Open dumping of municipal solid waste and its impacts on the environment
May A Massoud, American University of Beirut, Lebanon

15:15 - 15:40 Energy transition and the economic recession under COVID-19 crisis
Marina Badileanu, National Institute for Economic Research, Romania

15:40 - 16:05 Optimization of *Stichococcus* sp. cultivation in lab and pilot scale photo- bioreactors for efficient CO₂ fixation and bio-products production
Georgios Makaroglou, Technical University of Crete, Greece

16:05 - 16:30 Obtaining top biocompounds from wastes by hydrothermal carbonization
Beatriz Ledesma and Silvia Roman Suero, University of Extremadura, Spain

16:30 - 16:55 Quantifying the impact of different tillage systems on biological indicators of soil quality in *Retisol*
Monika Vilkiene, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

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16:55 - 17:20 Development of an eco-compatible process for the recovery of rare earths from permanent magnets
Sahar Belfqueh, BRGM and ICSM, France

Keynote Presentations

17:20 - 17:50 Albedo changes drive 4.9 to 9.4°C global warming by 2400
Gene Richard Heinze Fry, Citizens Climate Lobby, USA

17:50 - 18:50 Future global environmental roadmap from 420 kY of paleoclimatology
Thomas F Valone, Integrity Research Institute, USA

End of Day 1

Tuesday
November 16, 2021

Day 2 - November 16, 2021

Oral Presentations

10:00 - 10:25 Marine Cloud Brightening
Stephen H Salter, University of Edinburgh, UK

10:25 - 10:50 Converting a process waste into a process improver. Recirculation of water during HTC
Beatriz Ledesma and Silvia Roman Suero, University of Extremadura, Spain

10:50 - 11:15 Recovery of valuable materials from waste electronics using ethanol as supercritical solvents
Amrita Preetam, IIT Delhi, India

11:15 - 11:40 New insights from studies derived from the extensive collections of wild *Lactuca* relatives at the gene bank of the Institute of Evolution, University of Haifa
Alex Beharav, University of Haifa, Israel

11:40 - 12:05 Analysis of tomato synthetic seeds for the development of an optimized encapsulation system
Raina Ijaz, University of Poonch Rawalakot, Pakistan

12:05 - 12:30 Nitrogen use efficiency and dynamics in a sunflower-wheat-sunflower-wheat cropping sequence as influenced by crop residues management
Nabila El Alami, Moulay Ismail University, Morocco

Poster Presentations

12:30 - 12:45 The use of recyclates in protective corrugated pipes as a method of managing waste polymer materials
Anna Chmiel, TT Plast S.A., Poland

12:45 - 13:00 Type and amount of nitrogen fertilizers control the share of inorganic carbon pool in emitted CO₂ from calcareous soils: Implications for land management and global warming
Jingjing Tao, University of Göttingen, Germany

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13:00 - 13:15 Acceptability of upcycled textile products among consumers
Jemimah Mary Anil, St. Teresa's College, Ernakulam-India

Lunch Break(13:15 - 13:45)

Oral Presentations

13:45 - 14:10 Opportunities and challenges of eucalyptus residues application for pickering emulsions
Derval dos Santos Rosa, Universidade Federal do ABC, Brazil

14:10 - 14:25 Reuse of municipal wastewater from tertiary treatment to restore a wetland ecosystem at alisos watershed
Perfecto Barragan-Pena, Tecnológico Nacional de México/ Instituto Tecnológico de Nogales, Mexico

Keynote Presentations

14:25 - 14:55 Transformation of conventional solid waste collection systems into cyber-physical system based on Internet of Things technologies: An optimization approach
Tamas Banyai, University of Miskolc, Hungary

14:55 - 15:25 Measurement of a world-wide transfer function for marine cloud brightening
Stephen H Salter, University of Edinburgh, UK

15:25 - 15:55 Role of environmental biotechnology in soil protection: Study case
Hosam Bayoumi Hamuda, Obuda University, Hungary

End of Day 2