

Stellenbosch
South Africa
November
23th and 24th, 2023



“Ways forward to promote resources equity: The role of cleaner production and circular economy as moderator. Action or Reaction to Save the Planet”

INTERNATIONAL WORKSHOP ON ADVANCES IN CLEANER PRODUCTION

Acceptance List

Physical Submissions

The approved submissions of **registered participants** from this category will be organized in oral presentations sessions, according to the research themes and will be presented **IN PERSON** during the 12th IWACP. The approved submissions will be published in the 12th IWACP's Proceedings. Awarded authors will receive the Special Mention certificate during the event. Authors that intend to present their submissions in this category must be registered in fees **1A, 2A, 3A or 4A**.

Physical Abstracts

Authors	Title
D'ADAMO, I	An analysis of waste management in Italian cities: performance measurements and policy implications
GASTALDI, M.	
LOMBARDI, G. V.	
RAPOSELLI, A.	
ROMANO, G.	
NTSONDWA, S.	Assessing Direct Carbon Capture Technology for Carbon Reduction.
NAIDOO, P.	A Study of Mixed Plastic Waste Pyrolysis under Low-Pressure
MOODLEY, K.	
NAIDOO, B.	
DURSKI, M.	
NAIDOO, P.	
LEWIS, C.	Solar panel recycling
NAIDOO, P.	Unveiling Opportunities for Local Circular Bioeconomy Systems Using an Open Innovation Approach
SALVADOR, R.	
BACH, S.	
ERIKSEN, L.	
HEDEGAARD, M.	
KJÆRSGAARD, N. C.	
KNUDBY, T.	
LUND, V.	
LARSEN, S. B.	

“WAYS FORWARD TO PROMOTE RESOURCE EQUITY: THE ROLE OF CLEANER PRODUCTION AND CIRCULAR ECONOMY AS MODERATOR. ACTION OR REACTION TO SAVE THE PLANET?”

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MEJIA, N. N.	Methodological Model to Evaluate Eco-efficiency in Photovoltaic Systems
HERRERA, I	
VERA, L.D.	
BIGGERI, M.	SDGs and material footprint: the challenges of a full circular economy in EU
DISTEFANO, T.	
FRANCESCUTTO, A.	
LODI, L.	
SILVA JÚNIOR, E. D.	Treatment and reuse of wastewater from car washing
FREIRE, A. P.	
RODRIGUES, A. M.	Enhancing Water Security: Insights from a Systematic Review of Rainwater Harvesting and Greywater Reuse Systems
FORMIGA, K. T. M.	
NCHABELENG, N. N.	Pb(II) Adsorption Utilizing Untreated Mining Influenced Water (MIW) Sludge
BRINK, H. G.	
AINA, S.T	Innovative Antimicrobial Composites for Sustainable Infrastructure Enhancement
KYOMUHIMBO, H.D.	
DU PLESSIS, B.J.	
MJIMBA V.	
BRINK, H.G	
LOHRENTZ, L.	Enhanced Hexavalent Chromium Removal using Nanocomposite PANI-NSA@NiO: Mechanisms and Kinetic Insights
BHAUMIK, M.	
BRINK, H.G	

Physical Papers

Authors	Title
VIEGAS, C. V.	Can smaller be more sustainable? Comparative outcomes of Brazilian medicines reverse logistic systems based on a local benchmarking
BOND, A.	
BORDIN, R.	
ROSA, R.S.	
COIMBRA, M.A.	
BERTOLO, R.J	
MSISKA, S.C.	Comparative techno-economic and life cycle assessments of single and intercropped-mixed feedstock based biorefineries for production of energy
PADI R.K	
CHIMPHANGO A.F.	
JOGUNOLA, O.	Deep Learning-Enabled Temperature Simulation of a Greenhouse Tunnel
HULL, K.J.	
MABITSELA, M. M.	
PHIRI, E..E .	
ADEBISI, B.	
BOOYSEN, M.J.	

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DURSKI, M.	Recovery of Rare Earth Elements from NdFeB Waste Magnets
MANILAL, N.	
NAIDOO, P.	
MOODLEY, K.	
BREEDT, J.	Towards a forecasting framework for strategic electricity demand forecasting in a rapidly evolving power system environment: A set of requirements
LOUW, L.	
DE KOCK, I.H.	
LEWIS, C. A.	Bulk recycling of c-Si solar panels to aid in sustainable waste management strategies
NAIDOO, P.	
PRETORIUS, B.G.	Simulating The Driving and Charging of Electric Minibus Taxis: A Case Study for Stellenbosch
STRAUSS, J. M.	
BOOYSEN, M. J.	
MUZAMWESE, F. A.	Power Dynamics of Sustainable Business Networks in a Circular Economy – A Governance Perspective from Africa
HELDEWEG, M. A.	
FRANCO-GARCIA, L. M.	

Virtual Submissions

The approved submissions of **registered participants** from this category will be published in the 11th IWACP's Proceedings. **Only the awarded authors will be invited to record a presentation.** All contributions presented virtually will be available in the 11th IWACP's website after the event and also will be available, via streaming, in the **Advances in Cleaner Production Network's YouTube Channel**. The awarded authors will receive the Special Mention certificate by e-mail. Authors that intend to present their submissions in this category must be registered in fees **1B, 2B, 3B or 4B**.

Virtual Abstracts

Authors	Title
OLIVEIRA NETO, G. C.	Environmental, Economic, and Social Assessment of the Adoption of Industry 4.0 Technologies in Automotive Production: Contributions to Circular Economy and Cleaner Production
SILVA, A. C.	
RODRIGUES, F. L.	
COSTA, G.A.	
GIUBINE, G. D.	
CARDOSO, H.V.	
GOMES, M.G.	
OLIVEIRA NETO, G. C.	Adoption of Autonomous Guided Vehicles in the Automotive Industry contributes to the micro-level Circular Economy
SILVA, A. C.	
RODRIGUES, F. L.	
COSTA, G.A.	
GIUBINE, G. D.	
CARDOSO, H.V.	
GOMES, M.G.	
MUZAMWESE, F. A.	

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HELDEWEG, M. A.	Power Dynamics of Sustainable Business Networks in a Circular Economy – A Governance Perspective from Africa
FRANCO-GARCIA, L. M	
GHISELLINI, P.	Exploring Cleaner Production and Circular Economy patterns within the Civil Economy paradigm, to address global and local challenges
PASSARO, R.	
ULGIATI, S.	
NACIMENTO, R. A.	
CANEVER, M. D.	Methodological proposition to the broiler farmers payment considering local socioenvironmental services perspective
ALMEIDA, C. M. V. B.	
AGOSTINHO, F.	
GAMEIRO, A. H.	
GIANNETTI, B. F.	
BONIFAZI, G.	
D'ADAMO, I.	Hyperspectral imaging for sustainable space debris recycling
PALMIERI, R.	
SERRANTI, S.	
AVERSANO N.	
SIMONE A.	
SCHIAROLI, V.	
FRACCASCIA, L.	Determinants of sustainable footwear consumption: a cross-country comparison
ALVINO, L.	
DANGELICO, R. M.	
ZAMAN, A.	
FIORE, F.A.	Sustainable Brick Production: Harnessing Recycled Aggregates and Bio-based Materials for Equitable Resource Utilisation
SANCHES-PEREIRA, A.	
GAZEAU, B.	
CACERES-RUIZ, A.	From Ghost Gears to Green Solutions: Innovating Against Plastic Fishing Gear Loss
RINGVALL, K.	
ZAMAN, A.	
SANCHES-PEREIRA, A.	
CACERES-RUIZ, A.	
GAZEAU, B.	Towards a Cleaner Agricultural Production through Sustainable Plastic Mulching Substitutes: The Case for Kenya
RINGVALL, K.	
ZAMAN, A.	
SANCHES-PEREIRA, A.	
QUAGLIERI L.	The role of experience in Italian consumers' intention to adopt Electric Vehicles (EVs)
MERCURI F.	
FRACCASCIA L.	
ALMEIDA M. B. G. D.	The evaluation of centrifuged water treatment plant sludge without thermal treatment as an adsorbent for the removal of nutrients and other physicochemical elements from wastewater
JESUS A. M. D.	
FIORE F. A.	
SANCHES-PEREIRA, A.	

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SARAIVA, A.	Strategies for carbon footprint reduction of wine production
PORTUGAL PEREIRA, J.	
MELO E ABREU, J.	
OLIVEIRA, M.	
REZENDE, V. T.	Emergy-based sustainability assessment of beef cow-calf operation system
RODRIGUES, G. R. D.	
NACIMENTO, R. A.	
CYRILLO, J. N. S. G.	
GAMEIRO, A. H.	
CASTIGLIONE, C.	A systematic review of the barriers and drivers of implementing Industrial Symbiosis
FRACCASCIA, L.	
PASTORE, E.	
ALFIERI, A.	
RINGVALL, K.	There's Plastic and then there's Bioplastic: seeking alternatives to petroleum-based plastic in food packaging through a circular economy lens
CACERES RUIZ, A.	
GAZEAU, B.	
ZAMAN, A.	
SANCHES PEREIRA, A.	

Virtual Papers

Authors	Title
PIRES, E. P.	Assessment of sustainability 4.0 practices in service companies
MELO, F. J. M.	
SOBRAL, E. F. M.	
ALVES, J. L. S.	
MEDEIROS, D. D.	
DESUÓ N., L.	Power Distribution Maintenance Operations and Carbon-Neutral Operation
CAETANO H. O.	
FOGLIATTO, M. S. S.	
MACIEL, C. D.	
GIL, G. S.	Analysis of sustainability reports based on the Sustainable Development Goals (SDGs): study in the industrial center of Manaus
MELO, F. J. M.	
MEDEIROS, D. D.	
MACIEL NETO, T.	
REIS, D. L.	
ALVES, J. L. S.	Contribution of family farming practices to a social FEW Nexus from the perspective of Actor-Network Theory (ANT)
SOARES, H. M.	
VIEGAS, C.V.	
CAMPOS, A. F.	

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SILVA , M. T.	The Contribution of Industry 4.0 Technologies to the Sustainability of Civil Construction: A Literature Review
ORTEGA, R.A.	Life cycle assessment of concrete blocks production from fiberglass residues: an industrial ecology application
AGOSTINHO, F.	
ALMEIDA, C.M.V.B.	
GIANNETTI, B.F.	
CROMHOUT, B.	The role of lean in sustainability transitions in healthcare: An index and conceptual framing
DE KOCK, I. H.	
ALVES, J. P.	Industry 4.0 Technologies in Effluent Management: Advancements and Opportunities
SILVA, M. T.	
GONÇALVES, R. F.	
BIANCHI, K. S. B.	Feasibility of the production of Refuse-Derived Fuel in Brazil: a case study in the state of Espírito Santo
TOSTA, M. C. R.	
CHAVES, G. L. D.	
BANDEIRA, G. L.	Dimensions to Evaluate Circular Economy Maturity in SMEs
GUERREIRO, O. I.	
TORTATO, U.	
FIORI, B.A.	Photovoltaic Solar Panels End-Of-Life: A Comparative LCA For a Gate-To-Grade Approach
DE SOUZA, S.G.	
MACENO, M.M.C.	
BELALCAZAR, P.A.R.	
POHLMANN, M. N.	Value Analysis in Circular Economy: A Systematic Literature Review
GONÇALVES, R. F.	