



OBJETIVOS DE DESENVOLVIMENTO SUSTENTÁVEL





ODS 1 - ERRADICAR A POBREZA



Developing an open-source flood forecasting system adapted to data-scarce regions: A digital twin coupled with hydrologic-hydrodynamic simulations

M. C. Rápalo, L. Gomes Jr, M.N. Mendonço, E.M.

10.1016/j.jhydrol.2024.131929

Efficiency and productivity to social welfare: the case of the main forestry-producing micro-regions in Brazil

Campoli, J.S. Junior, P.N.A. Kodama, T.K. Nagano, M.S. Burnquist, H.L.

10.1590/1806-9479.2023.276680

Performance analysis of physically-based (HEC-RAS, CADDIES) and AI-based (LSTM) flood models for two case studies

Batalini De Macedo, M. Mangukiy, N.K. Fava, M.C. Sharma, A. Fray Da Silva, R. Agarwal, A. Razzolini, M.T. Mendonço, E.M. Goel, N.K. Kurian, M. Nardocci, A.C.

10.5194/piahs-386-41-2024



ODS 2 - FOME ZERO E AGRICULTURA SUSTENTÁVEL



Advanced embedded generalized predictive controller based on fuzzy gain scheduling for agricultural sprayers with dead zone nonlinearities

Schutz, D.R.| Mercaldi, H.V.| Peñaloza, E.A.G.| Silva, L.J.R.|
Oliveira, V.A.| Cruvinel, P.E.

10.1016/j.jprocont.2024.103164

Automated Windrow Profiling System in Mechanized Peanut Harvesting

Senni, A.P.| Tronco, M.L.| Pedrino, E.C.| Silva, R.P.D.

10.3390/agriengineering6040200

A comprehensive analysis of sustainable fertilizer-related publications within the context of circular economy: Insights from the field of business management

Kodama, T.K.| Nagano, M.S.| Miyata, H.H.| Ometto, A.R.| Beal, C.

10.1016/j.clpl.2024.100077

A Data-Driven Method for Water Quality Analysis and Prediction for Localized Irrigation

da Silva, R.F.| Benso, M.R.| Corrêa, F.E.| Messias, T.G.| Mendonça, F.C.|
Marques, P.A.A.| Duarte, S.N.| Mendiando, E.M.| Delbem, A.C.B.| Saraiva,
A.M.

10.3390/agriengineering6020103

Enhancing drought resilience and vulnerability assessment in small farms: A global expert survey on multidimensional indicators

Sass, K.S.| Konak, A.| Batalini de Macedo, M.| et.al.

10.1016/j.ijdr.2024.104616

Impact of rapid anthropogenic environmental change on water security in a tropical Andean basin

Cepeda Arias, E.| Cañón Barriga, J.| Mario Mendiando, E.

10.1016/j.wasec.2024.100175

Impacts of agriculture and snow dynamics on catchment water balance in the U.S. and Great Britain

Zaerpour, M.| Hatami, S.| Ballarin, A.S.| Knoben, W.J.M.|
Papalexiou, S.M.| Pietroniro, A.| Clark, M.P.

10.1038/s43247-024-01891-w

Quantifying Soil Loss in the Brazilian Savanna Ecosystem: Current Rates and Anticipated Impact of Climate Changes

Schwamback, D.| Amorim Brandão, A.R.| Bertotto, L.E.|
Berndtsson, R.| Zhang, L.| Wendland, E.| Persson, M.

10.1002/ldr.5331

Recent Advances on Microplastics and Nanoplastics Impacts to the United Nations' Sustainable Development Goal 2—Zero Hunger: a Systematic Review

Soares, Á.K.M.| Rodrigues, V.G.S.

10.1007/s11270-024-07590-8

Tolerance of free-floating aquatic macrophytes to sugarcane vinasse and its implications for phytoremediation strategies

de Brito, L.F.P.| Espíndola, E.L.G.| Ogura, A.P.

10.2166/washdev.2024.240



ODS3-SAÚDE E BEM-ESTAR



Advanced embedded generalized predictive controller based on fuzzy gain scheduling for agricultural sprayers with dead zone nonlinearities

Schutz, D.R.| Mercaldi, H.V.| Peñaloza, E.A.G.| Silva, L.J.R.|
Oliveira, V.A.| Cruvinel, P.E.

10.1016/j.jprocont.2024.103164

Antitumor potential of lipid nanoformulations with natural antioxidants

Mendes, L.A.| Farnesi-de-Assunção, T.S.| Oliveira, P.A.| Rotta,
I.S.| Moreto, J.A.| Devienne, K.F.| Paiva, A.D.| Slade, N.B.L.

10.1016/j.nwnano.2024.100040

Can microplastic contamination affect the wing morphology and wingbeat frequency of *Aedes aegypti* (Diptera: Culicidae) mosquitoes?

de Nadai, B.L.| Moura, L.I| Castro, G.B.| Silva, K.J.S.| Maletzke,
A.G.| Corbi, J.J.| Batista, G.E.A.P.A.| Machado, R.B.

10.1007/s11356-024-35161-1

Copper and cadmium, isolated and in the mixture, impact the Neotropical freshwater Calanoida copepod *Notodiaptomus iheringi*: A short-term approach with environmental concentrations

Rocha, G.S.| de Palma Lopes, L.F.| Espíndola, E.L.G.

10.1016/j.etap.2023.104326

Development of a Flexible Algorithm for Simulations with Human-Exoskeleton Models: An Approach to the Robot-Assisted Therapy

Mosconi, D.| Siqueira, A.A.G.

10.1007/978-3-031-49401-7_30

Dynamic mesh analysis by numerical simulation of internal combustion engines

da Silva, J.A.| da Silva, L.P.| Costa Campos, J.C.| de Oliveira
Siqueira, A.M.| Gurgel, A.| Gómez, L.C.

10.1590/0370-44672023770003

Efficacy of UVC-LED radiation in bacterial, viral, and protozoan inactivation: an assessment of the influence of exposure doses and water quality

Freitas, B.L.S.| Fava, N.M.D.N.| Melo-Neto, M.G.D.| Dalkiranis, G.G.|
Tonetti, A.L.| Byrne, J.A.| Fernandez-Ibañez, P.| Sabogal-Paz, L.P.

10.1016/j.watres.2024.122322

Environmentally Relevant Concentrations of the Insecticide Fipronil Modulated Molecular Response in *Chironomus riparius*

Pinto, T.J.D.S.| Martínez-Guitarte, J.-L.| Amaral Dias, M.|
Montagner, C.C.| Espindola, E.L.G.| Muñoz-González, A.-B.

10.1002/etc.5798

Ethylparaben Toxicity on Cladocerans *Daphnia Similis* and *Ceriodaphnia Silvestrii* and Species Sensitivity Analysis

Valença, R.M.| Moreira, R.A.| Espíndola, E.L.G.| Vieira, E.M.

10.1007/s00128-023-03832-3

Fate and toxicity of 2,4-D and fipronil in mesocosm systems

Veloso Goulart, B.| De Caroli Vizioli, B.| Junio da Silva Pinto, T.|
et.al.

10.1016/j.chemosphere.2023.140569

Fate of micropollutants

de Oliveira, G.H.D.| Lovato, G.| Rodrigues, J.A.D.| Zaiat, M.

10.2166/9781789063479_0255

GeoCNES: healthcare mapping in Brazilian cities – a computational tool for improved decision-making

de Assis, L.B.M.| de Moraes, F.R.| Segantine, P.C.L.| Amado,
M.J.D.N.P.| da Silva, I.

10.1590/1413-812320242911.02672024



ODS3-SAÚDE E BEM-ESTAR



Green coagulants extracted by salt solution for coffee processing wastewater treatment

Dourado, A.C.C.| Borges, A.C.| Sabogal-Paz, L.P.| Siman, R.R.|
Rosa, A.P.

10.1007/s13399-022-03536-4

How much biochar is safe? Exploring potential ecotoxicological consequences for soil
invertebrates and plants

Costa, V.B.D.| Ogura, A.P.| Alexandre, D.S.| Soares, M.B.| Alleoni,
L.R.F.| Espíndola, E.L.G.| Pinto, T.J.D.S.

10.1016/j.apsoil.2024.105552

Key sustainable mobility indicators for university campuses

Rodrigues da Silva, A.N.| Tan, F.M.| Sousa, P.B.D.

10.1016/j.indic.2024.100371

Multi-UAV Collaborative System for the Identification of Surface Cyanobacterial Blooms
and Aquatic Macrophytes

Vivaldini, K.| Pazelli, T.| Rocha, | et.al

10.1007/s10846-023-02043-6

Numerical hazard analysis of torque vectoring system for electric drivetrain considering
handling uncertainty

Marini, V.K.| Sorban, B.A.| da Silva, M.M.| Bortolussi, R.| Fleury,
A.T.| Trigo, F.C.

10.1007/s40430-023-04604-0

Post-sorption of Cd, Pb, and Zn onto peat, compost, and biochar: Short-term effects of
ecotoxicity and bioaccessibility

Lima, J.Z.| Ogura, A.P.| Espíndola, E.L.G.| Ferreira da Silva, E.|
Rodrigues, V.G.S.

10.1016/j.chemosphere.2024.141521

Recent Advances on Microplastics and Nanoplastics Impacts to the United Nations'
Sustainable Development Goal 2—Zero Hunger: a Systematic Review

Soares, Á.K.M.| Rodrigues, V.G.S.

10.1007/s11270-024-07590-8

Removal of Fluoroquinolones and Sulfonamides Using Two Different Anaerobic Fixed-Bed
Reactors: Impact of the Flow Type and Ecotoxicity Effects

Fonsêca, M.C.| Castro, G.B.| Neto, Á.J.S.| Corbi, J.J.| Zaiat, M.

10.1007/978-3-031-63353-9_38

Silk fibroin-derived electrospun materials for biomedical applications: A review

dos Santos, F.V.| Siqueira, R.L.| de Moraes Ramos, L.| Yoshioka,
S.A.| Branciforti, M.C.| Correa, D.S.

10.1016/j.ijbiomac.2023.127641

A Sustainable Approach to How Roadway Recognition Affects Drivers' Speed Choice

Ribeiro, R.S.| Albarracin, O.Y.E.| Linhares, G.R.| Larocca, A.P.C.|
Bernucci, L.L.B.

10.3390/su16156546

Ultrawideband Patch Antenna with Inhomogeneous Artificial Magnetic Conductor and
Nearly Constant Radiation Pattern for Breast Tumor Detection

Raza, A.| Souza, M.I.O.| Liaqat, M.| Pepino, V.M.| Borges, B.-H.V.

10.1109/LAWP.2024.3436559



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



Anaerobic co-metabolic biodegradation of pharmaceuticals and personal care products driven by glycerol fermentation

Carneiro, R.B.| Gomes, G.M.| Camargo, F.P.| Zaiat, M.| Santos-Neto, Á.J.

10.1016/j.chemosphere.2024.142006

Anaerobic membrane bioreactor (AnMBR) with external ultrafiltration membrane for the treatment of sugar beet vinasse

Bueno, B.E.| Muniz Brito, A.L.| Garcia Rea, V.S.| Kurnianto, R.W.| Zaiat, M.| van Lier, J.B.

10.3389/fbioe.2024.1491974

Anaerobic treatment removing tetrabromobisphenol A and biota safety: How do tropical aquatic species respond to effluent toxicity over short- and long-term exposures?

Bernegossi, A.C.| Castro, G.B.| Felipe, M.C.| de Souza, T.T.C.| Macêdo, W.V.| Gorni, G.R.| Corbi, J.J.

10.1002/wer.11065

A critical review of the mainstream anammox-based processes in warm climate regions: Potential, performance, and control strategies

Takeda, P.Y.| Paula, C.T.| Borges, A.D.V.| Shibata, A.E.| Grangeiro, L.C.| Damianovic, M.H.R.Z.

10.1016/j.jece.2024.113691

Dam removal effects on carbon processing in a mountainous Mediterranean stream

Bega, J.M.M.| Cunha, D.G.F.| López, M.M.| Camacho-Santamans, A.| von Schiller, D.

10.1016/j.scitotenv.2024.176672

A Data-Driven Method for Water Quality Analysis and Prediction for Localized Irrigation

da Silva, R.F.| Benso, M.R.| Corrêa, F.E.| Messias, T.G.| Mendonça, F.C.| Marques, P.A.A.| Duarte, S.N.| Mendiando, E.M.| Delbem, A.C.B.| Saraiva, A.M.

10.3390/agriengineering6020103

Drought intensification in Brazilian catchments: implications for water and land management

Ballarin, A.S.| Vargas Godoy, M.R.| Zaerpour, M.| Abdelmoaty, H.M.| Hatami, S.| Gavasso-Rita, Y.L.| Wendland, E.| Papalexiou, S.M.

10.1088/1748-9326/ad3e18

Effects of riparian vegetation restoration and environmental context on ecosystem functioning in tropical streams of southeastern Brazil

Bega, J.M.M.| Saltarelli, W.A.| Gücker, B.| Boëchat, I.G.| Finkler, N.R.| Cunha, D.G.F.

10.1016/j.scitotenv.2024.174906

Efficacy of UVC-LED radiation in bacterial, viral, and protozoan inactivation: an assessment of the influence of exposure doses and water quality

Freitas, B.L.S.| Fava, N.M.D.N.| Melo-Neto, M.G.D.| Dalkiranis, G.G.| Tonetti, A.L.| Byrne, J.A.| Fernandez-Ibañez, P.| Sabogal-Paz, L.P.

10.1016/j.watres.2024.122322

Enhancing Organic Micropollutants Removal in Wastewater with an Innovative Two-Stage Anaerobic Fixed-Film Bioreactor: Role of Acidogenic and Methanogenic Steps

Carneiro, R.B.| Gomes, G.M.| Sabatini, C.A.| Gago-Ferrero, P.| Zaiat, M.| Santos-Neto, A.J.

10.1021/acsestengg.3c00334

Enhancing Water Ecosystem Services Using Environmental Zoning in Land Use Planning

Anjinho, P.D.S.| Barbosa, M.A.G.A.| Peponi, A.| Duarte, G.| Branco, P.| Ferreira, M.T.| Mauad, F.F.

10.3390/su16114803



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



Ethylparaben Toxicity on Cladocerans Daphnia Similis and Ceriodaphnia Silvestrii and Species Sensitivity Analysis

Valença, R.M.| Moreira, R.A.| Espíndola, E.L.G.| Vieira, E.M.

10.1007/s00128-023-03832-3

Fate of micropollutants

de Oliveira, G.H.D.| Lovato, G.| Rodrigues, J.A.D.| Zaiat, M.

10.2166/9781789063479_0255

Granular anammox biomass in warm climate regions: Exploring its feasibility for transitioning from sidestream to mainstream anaerobic effluent treatment

Giglio, G.L.| Alves, A.M.| Cavalcante, W.A.| Takeda, P.Y.| Paula, C.T.| Pereira, T.D.S.| Kunz, A.| Damianovic, M.H.R.Z.

10.1016/j.jwpe.2024.105456

Green coagulants extracted by salt solution for coffee processing wastewater treatment

Dourado, A.C.C.| Borges, A.C.| Sabogal-Paz, L.P.| Siman, R.R.| Rosa, A.P.

10.1007/s13399-022-03536-4

Heated fibre optics to monitor soil moisture under successive saturation–drying cycles: An experimental approach

Bertotto, L.E.| Reis, A.| Cobalchini, É.R.O.| Schwambach, D.| Sousa Mota Uchôa, J.G.| Wendland, E.C.

10.1111/ejss.13535

Impact of rapid anthropogenic environmental change on water security in a tropical Andean basin

Cepeda Arias, E.| Cañón Barriga, J.| Mario Mendiando, E.

10.1016/j.wasec.2024.100175

Impacts of agriculture and snow dynamics on catchment water balance in the U.S. and Great Britain

Zaerpour, M.| Hatami, S.| Ballarin, A.S.| Knoben, W.J.M.| Papalexiou, S.M.| Pietroniro, A.| Clark, M.P.

10.1038/s43247-024-01891-w

Index-based insurance to mitigate current and future extreme events financial losses for water utilities

Gesualdo, G.C.| Benso, M.R.| Sass, K.S.| Mendiando, E.M.

10.1016/j.ijdr.2023.104218

Influence of organic carbon source on hydrogen production and nutrient removal by microbial consortium in anaerobic photobioreactors

Vargas, S.R.| Macêdo, W.V.| Trindade, L.F.| Zaiat, M.

10.1016/j.ijhydene.2023.11.354

Long-term exposure of Allonais inaequalis to a mixture of antibiotics in freshwater and synthetic wastewater matrices: Reproduction, recovery, and swimming responses

Castro, G.B.| Alexandre, D.S.| Bernegossi, A.C.| Bezerra, Y.A.F.| Fonsêca, M.C.| Zaiat, M.| Corbi, J.J.

10.1002/wer.11007

Low-Impact Development Scenarios in Terms of Construction Costs and Runoff Reduction

De Oliveira Sousa, B.J.| Mattos, T.S.| Taffarelo, D.| Mendiando, E.M.| Vasconcelos, J.G.| Oliveira, P.T.S.

10.1061/JHYEFF.HEENG-6059



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



Microbial diversity and metabolic inference of diclofenac removal in optimised batch heterotrophic-denitrifying conditions by means of factorial design

Pirete, L.D.M.| Camargo, F.P.| Grosseli, G.M.| Sakamoto, I.K.|
Fadini, P.S.| Silva, E.L.| Varesche, M.B.A.

10.1080/09593330.2023.2192365

Mitigating drought financial risk for water supply sector through index-based insurance contracts

Gesualdo, G.C.| Benso, M.R.| Navarro, F.A.R.| Castillo, L.M.|
Mendiondo, E.M.

10.5194/piahs-385-117-2024

Optimizing surface water quality parameters in monitoring networks in a developing sub-tropical region with high anthropogenic pressure (São Paulo State Brazil)

de Almeida, R.G.B.| Cunha, D.G.F.

10.1007/s11356-024-35345-9

Overview of Payments for Environmental Services scientific publications in Brazil

Guerra, B.R.| Verdasca, S.| e Almeida, M.R.R.| Ranieri, V.E.L.

10.1590/1809-4422asoc0101r2vu27L10A

Phase separation as a strategy to prevent sulfide-related drawbacks in methanogenesis: performance and energetic aspects

Gil-Garcia, C.| Fuess, L.T.| do Vale Borges, A.| Damianovic,
M.H.R.Z.

10.1007/s11356-024-33277-y

Photocatalytic Degradation of Algal Organic Matter Using TiO₂/UV and Persulfate/UV

Leite, L.D.S.| Hoffmann, M.T.| dos Santos, D.V.| Daniel, L.A.

10.3390/w1611626

Post-sorption of Cd, Pb, and Zn onto peat, compost, and biochar: Short-term effects of ecotoxicity and bioaccessibility

Lima, J.Z.| Ogura, A.P.| Espíndola, E.L.G.| Ferreira da Silva, E.I.
Rodrigues, V.G.S.

10.1016/j.chemosphere.2024.141521

Quantification and spatial distribution of the bioenergetic potential from slaughterhouses effluents biogas generation across Brazil

Menezes Lima, J.A.| Formagini, E.L.| Tavares da Costa, M.| Ayach
Anache, J.A.

10.1016/j.jclepro.2024.143000

Rainwater treatment system efficiency: Household slow sand filter combined with UVC lamp disinfection

Melo Neto, M.G.D.| Freitas, B.L.S.| Fava, N.N.M.| Sabogal-Paz, L.P.

10.1016/j.jwpe.2024.104785

Rapid method for determination of biogas composition by gas chromatography coupled to a thermal conductivity detector (GC-TCD)

Araujo, M.N.| Vargas, S.R.| Soares, L.A.| Trindade, L.F.| Fuess, L.T.|
Adorno, M.A.T.

10.1080/03067319.2023.2210055

Real-time regulation of detention ponds via feedback control: Balancing flood mitigation and water quality

Gomes, M.N.| Taha, A.F.| Rápalo, L.M.C.| Mendiondo, E.M.|
Giacomoni, M.H.

10.1016/j.jhydrol.2024.131866



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



Reducing costs of Giardia spp. cyst enumeration using machine learning-based systems

Belini, V.L.| Fava, N.M.N.| Sabogal-Paz, L.P.

10.2166/wpt.2024.087

Removal of Fluoroquinolones and Sulfonamides Using Two Different Anaerobic Fixed-Bed Reactors: Impact of the Flow Type and Ecotoxicity Effects

Fonsêca, M.C.| Castro, G.B.| Neto, Á.J.S.| Corbi, J.J.| Zaiat, M.

10.1007/978-3-031-63353-9_38

Removal of nonylphenol ethoxylate surfactant in batch reactors: emphasis on methanogenic potential and microbial community characterization under optimized conditions

Teixeira, R.M.| Sakamoto, I.K.| Motteran, F.| Camargo, F.P.| Varesche, M.B.A.

10.1080/09593330.2022.2143287

Tolerance of free-floating aquatic macrophytes to sugarcane vinasse and its implications for phytoremediation strategies

de Brito, L.F.P.| Espíndola, E.L.G.| Ogura, A.P.

10.2166/washdev.2024.240

Treatment of sugarcane vinasse in AnMBR and UASB: process performance and microbial community comparison

Bueno, B.E.| Garcia Rea, V.S.| Saia, F.T.| Gregoracci, G.B.| Dacanal, G.| van Lier, J.B.| Zaiat, M.

10.3389/fbioe.2024.1489807

Understanding microbiome dynamics and functional responses during acidogenic fermentation of sucrose and sugarcane vinasse through metatranscriptomic analysis

Mota, V.T.| Delforno, T.P.| Ribeiro, J.C.| Zaiat, M.| Oliveira, V.M.D.

10.1016/j.envres.2024.118150

Use of Construction and Demolition Waste for the Treatment of Dye-Contaminated Water Toward Circular economy

Domingues, N.S.| Romão, É.L.| Alvim, D.S.| Marques, J.P.| Rodrigues, V.G.S.| Kasemodel, M.C.

10.1007/s11270-024-07421-w

Using correlation of variables to compare different configurations of microalgae-based wastewater treatment systems

Lima, E.M.M.N.| Sueitt, A.P.E.| Daniel, L.A.

10.1007/s13762-023-05289-7

Water security in an Andean basin: an integrated socio-hydrological, multi-scenario and allocation assessment

Cepeda Arias, E.| Cañón Barriga, J.| Mendiando, E.M.

10.1080/02626667.2024.2325653

Widespread potential for streamflow leakage across Brazil

Uchôa, J.G.S.M.| Oliveira, P.T.S.| Ballarin, A.S.| Meira Neto, A.A.| Gastmans, D.| Jasechko, S.| Fan, Y.| Wendland, E.C.

10.1038/s41467-024-54370-3



ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Anaerobic membrane bioreactor (AnMBR) with external ultrafiltration membrane for the treatment of sugar beet vinasse

Bueno, B.E.| Muniz Brito, A.L.| Garcia Rea, V.S.| Kurnianto, R.W.| Zaiat, M.| van Lier, J.B.

10.3389/fbioe.2024.1491974

Application of nanoparticles to increase biological hydrogen production: the difference in metabolic pathways in batch and continuous reactors

Moura, A.G.L.| Rabelo, C.A.B.S.| Silva, E.L.| Varesche, M.B.A.

10.1080/09593330.2023.2208274

Are we approaching the development of a novel calcium phosphate-based bioceramic dental material?

Pereira, L.F.| de Azevedo-Silva, L.J.| Minim, P.R.| Lisboa-Filho, P.N.| Fortulan, C.A.| Griggs, J.A.| Ferrairo, B.M.| Borges, A.F.S.

10.1016/j.dental.2024.07.019

Battery Energy Storage Systems in Microgrids: A Review of SoC Balancing and Perspectives

Fagundes, T.A.| Fuzato, G.H.F.| Silva, L.J.R.| Alonso, A.M.D.S.| Vasquez, J.C.| Guerrero, J.M.| Machado, R.Q.

10.1109/OJIES.2024.3455239

Binary differential evolution applied to the optimization of the voltage stability margin through the selection of corrective control sets

Silva, R.M.| Castoldi, M.F.| Goedel, A.| Sanches, D.S.| Ramos, R.A.

10.1007/s00500-023-09087-8

The Bioenergetic Potential from Coffee Processing Residues: Towards an Industrial Symbiosis

Albarracin, L.T.| Mas, I.R.| Fuess, L.T.| Rodriguez, R.P.| Volpi, M.P.C.| de Souza Moraes, B.

10.3390/resources13020021

BIOFUEL PRODUCTION FROM SOLID AND LIQUID FRACTIONS OF HYDROTHERMALLY PRETREATED SUGARCANE BAGASSE IN A CONTINUOUS COMPARTMENTALIZED REACTOR AND POTENTIAL METABOLIC PATHWAYS

Soares, L.A.| Fuess, L.T.| Delforno, T.P.| Oliveira, V.M.| Silva, E.L.| Varesche, M.B.A.

10.21577/0100-4042.20240033

Cascaded Interleaved DC-DC Converter for a Bidirectional Electric Vehicle Charging Station

Leal, W.C.| Godinho, M.O.| Bastos, R.F.| De Aguiar, C.R.| Fuzato, G.H.F.| MacHado, R.Q.

10.1109/TIE.2023.3273281

Challenges in adopting energy management systems by Brazilian companies: A fuzzy DEMATEL approach

Gomes, R.C.| Sigahi, T.F.A.C.| de Souza Pinto, J.| Rampasso, I.S.| Zanon, L.G.| Serafim, M.P.| Filho, W.L.| Anholon, R.

10.1080/19397038.2024.2417013

A Comprehensive Survey and Future Directions on Optimising Sustainable Urban Mobility

Borchers, T.| Wittowsky, D.| Fernandes, R.A.S.

10.1109/ACCESS.2024.3393470

Computational Tool for Aircraft Fuel System Analysis

Di Marzo, M.A.D.| Calil, P.G.| Najafabadi, H.N.| Takase, V.L.| Mourão, C.H.B.| Bidinotto, J.H.

10.3390/aerospace11050362



ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



The Context and Evolution of the Distributed Generation in the São Paulo Macrometropolis

Pavanelli, J.M.M.| Soares, R.S.| Siqueira, A.M.Q.| de Almeida Collaço, F.M.| Lazaro, L.L.B.| Bermann, C.

10.1007/978-3-031-59611-7_20

G20 countries' progress on the 7th SDG under circular economy DEA model

Campoli, J.S.| Alves Junior, P.N.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1016/j.envsci.2024.103839

Deep Learning Models to Estimate and Predict the Solar Irradiation in Brazil

Souza, W.A.| Alonso, A.M.S.| Bernardino, L.G.R.| Castoldi, M.F.| Nascimento, C.F.| Marafão, F.P.

10.1007/978-3-031-48652-4_5

A Design of a Redundancy-Based Cascaded Bidirectional DC-DC Converter for Improved Reliability in Energy Storage Devices

Fagundes, T.A.| Fuzato, G.H.F.| Magossi, R.F.Q.| Oliveira, A.L.R.| Machado, R.Q.

10.1109/OJIES.2024.3446911

Development and use of tensile loading test databases for analysis and design of helical piles

De Hollanda Cavalcanti Tsuha, C.| De Sousa Oliveira, C.C.| Da Silva, B.O.| Santos Filho, J.M.S.M.| Schiavon, J.A.| Tang, C.

10.1201/9781003441960-11

Dual-loop control strategies for vibration attenuation of a flexible parallel manipulator

Geronel, R.S.| de Oliveira, G.C.| da Silva, M.M.

10.1177/10775463241307702

Economic Operation Optimization Under Real-Time Pricing for an Energy Management System in a Redundancy-Based Microgrid

Fagundes, T.A.| Fuzato, G.H.F.| Magossi, R.F.Q.| Flores, M.A.B.| Vasquez, J.C.| Guerrero, J.M.| MacHado, R.Q.

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Biogas production from fermented sugarcane vinasse: impact of trace elements supplementation

Arruda, B.G.| Costa, R.B.| Zaiat, M.| Braga, A.F.M.

10.1007/s13399-023-05036-5

Effect of the addition of 1.5 wt.% of mischmetal in the ZK60 alloy processed by Friction Stir Process (FSP) followed by filing on the H-absorption/desorption kinetics

Silva, E.P.| Silva, G.N.L.| Knupp, D.C.| Leiva, D.R.| Bastos, I.N.| Botta, W.J.| Pinto, H.C.| Oliveira, V.B.

10.1016/j.ijhydene.2023.10.062

Effects of Separated-Flow Nonlinearities on the Flutter Behavior of the Pazy Wing

Dos Santos, L.G.P.| Cesnik, C.E.S.| Marques, F.D.

10.2514/6.2024-0829

Exploring Corymbia torelliana hydrochar combustion kinetics through thermogravimetric analysis, peak deconvolution and reaction profile modelling

da Rocha, J.J.M.| Júnior, J.A.S.| Sousa, N.G.| Cardoso, C.R.| Moreto, J.A.| de Oliveira, T.J.P.

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ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Fate of micropollutants

de Oliveira, G.H.D.| Lovato, G.| Rodrigues, J.A.D.| Zaiat, M.

10.2166/9781789063479_0255

Fermentative biohydrogen production in sugarcane biorefineries: Advances, challenges and prospects

Fuess, L.T.

10.1016/j.ijhydene.2023.10.092

Field and laboratory estimation of thermal conductivity of unsaturated soils using thermal cone penetration test (T-CPT)

de Almeida Tonus, B.P.| Niedvieski, L.B.| Lautenschläger, C.E.R.| de Hollanda Cavalcanti Tsuha, C.| Faro, V.P.

10.1007/s12665-024-11835-4

Fixed bed in dark fermentative reactors: is it imperative for enhanced biomass retention, biohydrogen evolution and substrate conversion?

Araujo, M.N.| Fuess, L.T.| Cavalcante, W.A.| Couto, P.T.| Rogeri, R.C.| Adorno, M.A.T.| Sakamoto, I.K.| Zaiat, M.

10.1016/j.ijhydene.2023.06.306

Genetic algorithm based tuning of sliding mode controllers for a boost converter of PV system using internet of things environment

Inomoto, R.| Filho, A.J.S.| Monteiro, J.R.| da Costa, E.C.M.

10.1016/j.rico.2024.100389

Heated fibre optics to monitor soil moisture under successive saturation–drying cycles: An experimental approach

Bertotto, L.E.| Reis, A.| Cobalchini, É.R.O.| Schwambach, D.| Sousa Mota Uchôa, J.G.| Wendland, E.C.

10.1111/ejss.13535

A heuristic-based method for setting synchronous distributed generators excitation system parameters to improve islanding detection

da Silva, M.de Barros Iscuissati, R.| Davi, M.J.B.B.| Vieira, J.C.M.| Motter, D.M.| Colombo, F.T.| de Oliveira, G.C.| de Oliveira, L.P.R.

10.1016/j.epsr.2024.110691

Hybrid vision/strain-based control strategy for a parallel manipulator with flexible links

da Silva, M.M.| Colombo, F.T.| de Oliveira, G.C.| de Oliveira, L.P.R.

10.1016/j.mechmachtheory.2023.105508

Hydrogen Production from Sugarcane Bagasse Pentose Liquor Fermentation Using Different Food/Microorganism and Carbon/Nitrogen Ratios under Mesophilic and Thermophilic Conditions

Mattiello-Francisco, L.| Ferreira, F.V.| Peixoto, G.| Mockaitis, G.| Zaiat, M.

10.3390/fermentation10080432

IMPACTS OF DISTRIBUTED GENERATION ON TRAVELLING WAVE-BASED FAULT LOCATORS IN MEDIUM VOLTAGE RADIAL FEEDERS: AN ANALYSIS FOR DIFFERENT HOSTING CAPACITY SCENARIOS

Lessa, L.S.| Grilo, C.V.C.| Coury, D.V.| Fernandes, R.A.S.

10.1049/icp.2024.1931

Improving the Continuous Multiple Tube Reactor: an Innovative Bioreactor Configuration with Great Potential for Dark Fermentation Processes

Trevisan, A.P.| Lied, E.B.| Fuess, L.T.| Zaiat, M.| de Souza, W.G.| Gomes, S.D.| Gomes, B.M.

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ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Increasing flood awareness through dam-break serious games

Gomes, M.N.| Castro, M.D.A.R.A.| Silva, P.G.C.D.| Giacomoni, M.H.| Mendiõdo, E.M.

10.1016/j.ijdr.2024.104543

Influence of organic carbon source on hydrogen production and nutrient removal by microbial consortium in anaerobic photobioreactors

Vargas, S.R.| Macêdo, W.V.| Trindade, L.F.| Zaiat, M.

10.1016/j.ijhydene.2023.11.354

Melanoidin Content Determines the Primary Pathways in Glucose Dark Fermentation: A Preliminary Assessment of Kinetic and Microbial Aspects

Comparato, C.N.| de Araujo, M.N.| Sakamoto, I.K.| Fuess, L.T.| Damianovic, M.H.R.Z.| da Silva, A.J.

10.3390/fermentation10060272

Methane production from sugarcane vinasse: The alkalinizing potential of fermentative-sulfidogenic processes in two-stage anaerobic digestion

Rogeri, R.C.| Fuess, L.T.| Araujo, M.N.D.| Eng, F.| Borges, A.D.V.| Damianovic, M.H.R.Z.| Silva, A.J.D.

10.1016/j.nexus.2024.100303

Microstructure evolution of porous calcium hexaluminate compacts during first heating

Sakihama, J.| Salomão, R.

10.1016/j.ceramint.2023.11.230

Moisture ageing effects on the mechanical performance of eco-friendly sandwich panels made of aluminium skins, bamboo ring core and bio-based adhesives

Napolitano, F.| dos Santos, J.C.| da Silva, R.J.| Braga, G.G.| Tarpani, J.R.| Panzera, T.H.| Scarpa, F.

10.1016/j.bamboo.2024.100115

Multi-Objective PSO for Control-Loop Tuning of DFIG Wind Turbines with Chopper Protection and Reactive-Current Injection

Aguilar, M.E.B.| Coury, D.V.| Reginatto, R.| Monaro, R.M.| de Godoy, P.T.| Jahn, T.G.

10.3390/en17010028

Open-Source Data Logger System for Real-Time Monitoring and Fault Detection in Bench Testing

Amorim, M.L.M.| Lima, J.G.| Torres, N.N.S.| Afonso, J.A.| Lopes, S.F.| Carmo, J.P.P.D.| Hartmann, L.V.| Souto, C.R.| Salvadori, F.| Ando Junior, O.H.

10.3390/inventions9060120

Physicochemical pretreatment selects microbial communities to produce alcohols through metabolism of volatile fatty acids

Mockaitis, G.| Bruant, G.| Foresti, E.| Zaiat, M.| Guiot, S.R.

10.1007/s13399-022-02383-7

Quantification and spatial distribution of the bioenergetic potential from slaughterhouses effluents biogas generation across Brazil

Menezes Lima, J.A.| Formagini, E.L.| Tavares da Costa, M.| Ayach Anache, J.A.

10.1016/j.jclepro.2024.143000

Rapid method for determination of biogas composition by gas chromatography coupled to a thermal conductivity detector (GC-TCD)

Araujo, M.N.| Vargas, S.R.| Soares, L.A.| Trindade, L.F.| Fuess, L.T.| Adorno, M.A.T.

10.1080/03067319.2023.2210055



ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Secondary Voltage Control for DC Microgrids: A Design Perspective for SoC With Voltage Restoration Provision

Fagundes, T.A.| Henrique Favaro Fuzato, G.| Fernando Quirino Magossi, R.| Von Rondow Campos, M.| Meneghel Zilli, B.| Matheus Dos Santos Alonso, A.| Quadros Machado, R.

10.1109/TSG.2024.3433410

Selection of photovoltaic panels for floating systems: an analysis based on Entropy, CRITIC and TOPSIS

Leal, A.B.| de Souza Filho, H.N.| Gabriel Zanon, L.| F. A. C. Sigahi, T.| Simon Rampasso, I.| Anholon, R.

10.1080/19397038.2024.2438671

Simulated rainfall in Brazil: An alternative for assesment of soil surface processes and an opportunity for technological development

Luz, C.C.D.S.| Almeida, W.S.D.| Souza, A.P.D.| Schultz, N.| Anache, J.A.A.| Carvalho, D.F.D.

10.1016/j.iswcr.2023.05.002

Specific Organic Loading Rate Control for Improving Fermentative Hydrogen Production

Anzola-Rojas, M.D.P.| Fuess, L.T.| Zaiat, M.

10.3390/fermentation10040213

Sugarcane vinasse provokes acute and chronic responses and bioaccumulation of metals in benthic macroinvertebrates

Fraga, P.D.| de Mello Gabriel, G.V.| do Carmo, J.B.| Espindola, E.L.G.| Pinto, T.J.D.S.

10.1007/s11356-023-31446-z

A Survey on the Application of Phasor Measurement Units to the Protection of Transmission and Smart Distribution Systems

Menezes, T.S.| Barra, P.H.A.| Diziolli, F.A.S.| Lacerda, V.A.| Fernandes, R.A.S.| Coury, D.V.

10.1080/15325008.2023.2240320

Temperature effect on hydrogen embrittlement susceptibility of a high strength martensitic steel

Martiniano, G.A.| Bose Filho, W.W.| Garcia, R.P.| Franco, S.D.

10.1016/j.ijhydene.2025.02.253

Thermophilic fermentation of sugarcane vinasse: Process flexibility explained through characterizing microbial community and predicting metabolic functions

Fuess, L.T.| Rogeri, R.C.| Eng, F.| Borges, A.D.V.| Bovio-Winkler, P.| Etchebehere, C.| Zaiat, M.

10.1016/j.ijhydene.2024.06.200

Understanding microbiome dynamics and functional responses during acidogenic fermentation of sucrose and sugarcane vinasse through metatranscriptomic analysis

Mota, V.T.| Delforno, T.P.| Ribeiro, J.C.| Zaiat, M.| Oliveira, V.M.D.

10.1016/j.envres.2024.118150

Using fruit and vegetable waste to generate hydrogen through dark fermentation

de Menezes, C.A.| Duarte, M.S.| Teixeira, I.N.| Cavalcante, W.A.| Almeida, P.S.| Viana, M.B.| Zaiat, M.| Leitão, R.C.

10.1590/S1413-415220240013

Wind Turbine Remaining Useful Life Prediction Using Small Dataset and Machine Learning Techniques

de Souza Pereira Gomes, G.| Moreira de Andrade Lopes, S.| Carrijo Polonio Araujo, D.| Andrade Flauzino, R.| Marques Pinto, M.| Eduardo Guerra Alves, M.

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ODS 8- TRABALHO DESCENTE E CRESCIMENTO ECONÔMICO



A comprehensive analysis of sustainable fertilizer-related publications within the context of circular economy: Insights from the field of business management

Kodama, T.K.| Nagano, M.S.| Miyata, H.H.| Ometto, A.R.| Beal, C.

10.1016/j.clpl.2024.100077

G20 countries' progress on the 7th SDG under circular economy DEA model

Campoli, J.S.| Alves Junior, P.N.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1016/j.envsci.2024.103839

Efficiency and productivity to social welfare: the case of the main forestry-producing micro-regions in Brazil

Campoli, J.S.| Junior, P.N.A.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1590/1806-9479.2023.276680

Integration of Artificial Intelligence and Robotic Process Automation: Literature Review and Proposal for a Sustainable Model

Patrício, L.| Varela, L.| Silveira, Z.

10.3390/app14219648

Post-sorption of Cd, Pb, and Zn onto peat, compost, and biochar: Short-term effects of ecotoxicity and bioaccessibility

Lima, J.Z.| Ogura, A.P.| Espíndola, E.L.G.| Ferreira da Silva, E.| Rodrigues, V.G.S.

10.1016/j.chemosphere.2024.141521

Probabilistic inspection planning for the life cycle management of railway bridges

Ames, I.| Bittencourt, T.N.| Futai, M.M.| Beck, A.T.| Carvalho, H.

10.1201/9781003483755-332

Recent Advances on Microplastics and Nanoplastics Impacts to the United Nations' Sustainable Development Goal 2—Zero Hunger: a Systematic Review

Soares, Á.K.M.| Rodrigues, V.G.S.

10.1007/s11270-024-07590-8

Relations between supply chain performance and circular economy implementation: A fuzzy cognitive map-based analysis for sustainable development

Zanon, L.G.| Bertassini, A.C.| Sigahi, T.F.A.C.| Anholon, R.| Carpinetti, L.C.R.

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Treatment of sugarcane vinasse in AnMBR and UASB: process performance and microbial community comparison

Bueno, B.E.| Garcia Rea, V.S.| Saia, F.T.| Gregoracci, G.B.| Dacanal, G.| van Lier, J.B.| Zaiat, M.

10.3389/fbioe.2024.1489807



ODS 9- INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Acoustic Maps Processing with Image Enhancement Techniques in Grinding Wheel Dressing for Industry 4.0 †

Despirito, M.L.| Buzoli, M.R.| Dotto, F.R.L.| Conceição Junior, P.D.O.| Aguiar, P.R.D.

10.3390/ecsa-11-20485

Analysis of Low Cost 3D Printer Process Parameters and Their Influence on Manufacturing Functionality of Printed Parts

da Silva, A.M.H.| do Prado, G.B.| Fortulan, C.A.| Sabino, L.G.| Baptista, A.| de Carvalho, J.

10.1007/978-3-031-49401-7_16

Analysis of strategic behavior in micro and small technology-based firms in brazil

Musetti, T.F.| Nagano, M.S.| Filho, A.G.A.

10.1007/s10843-023-00347-0

Analysis of the quality of sustainability reports published by Brazilian companies: An analytic hierarchy process-grey clustering approach

Sousa, I.C.D.| Sigahi, T.F.A.C.| Rampasso, I.S.| Pinto, J.D.S.| Zanon, L.G.| Leal Filho, W.| Anholon, R.

10.1002/csr.2804

An analytical model for estimating process parameters input in L-DED based on bead geometry

Ribeiro, K.S.B.| Reghini, A.C.| Coelho, R.T.

10.1016/j.mfglet.2024.09.092

Application of Lean Office Concepts in the Management of Labor Grievances and Commercial Matters: A Case Study in a Retailers' Network

de Jesus Puppi, R.G.| Nocera Alves Junior, P.| Alves Queiroz, G.| Costa Melo, I.| do Nascimento Rebelatto, D.A.

10.1007/978-3-031-38165-2_42

Are we approaching the development of a novel calcium phosphate-based bioceramic dental material?

Pereira, L.F.| de Azevedo-Silva, L.J.| Minim, P.R.| Lisboa-Filho, P.N.| Fortulan, C.A.| Griggs, J.A.| Ferrairo, B.M.| Borges, A.F.S.

10.1016/j.dental.2024.07.019

Assessment of Cosine Similarity for Acoustic Emission-Based Tool Condition Monitoring in Milling Processes †

da Silva, D.D.| Dias, V.T.| Monson, P.M.D.C.| David, G.A.| Conceição Junior, P.D.O.

10.3390/ecsa-11-20390

The Bioenergetic Potential from Coffee Processing Residues: Towards an Industrial Symbiosis

Albarracin, L.T.| Mas, I.R.| Fuess, L.T.| Rodriguez, R.P.| Volpi, M.P.C.| de Souza Moraes, B.

10.3390/resources13020021

Business model innovation through the design of circular product-service system value propositions: A method proposal

da Costa Fernandes, S.| Rozenfeld, H.

10.1002/bse.3759

Challenges in adopting energy management systems by Brazilian companies: A fuzzy DEMATEL approach

Gomes, R.C.| Sigahi, T.F.A.C.| de Souza Pinto, J.| Rampasso, I.S.| Zanon, L.G.| Serafim, M.P.| Filho, W.L.| Anholon, R.

10.1080/19397038.2024.2417013



ODS 9 - INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Closed-Loop Workload Input-Output Control of Production Systems: A Hybrid Simulation Study

Mušič, G.| Sagawa, J.K.

10.1007/978-3-031-68438-8_20

Comparative Analysis and Integrated Methodology for the Electrical Design and Performance Evaluation of Thermoelectric Generators (TEGs) in Energy Harvesting Applications

Ando Junior, O.H.| Silva, E.A.D.| Lira, E.R.D.| Degiorgi, S.V.B.| Carmo, J.P.P.D.

10.3390/en17205176

Comparison of the Oxidation Behavior at High Temperature of INCONEL 625 Forged and Produced by Additive Manufacturing

Andrade, B.W.| Mariani, F.E.| Coelho, R.T.| de Sousa Malafaia, A.M.

10.1007/s11085-024-10283-6

A comprehensive analysis of sustainable fertilizer-related publications within the context of circular economy: Insights from the field of business management

Kodama, T.K.| Nagano, M.S.| Miyata, H.H.| Ometto, A.R.| Beal, C.

10.1016/j.clpl.2024.100077

CROSS LAMINATED TIMBER BONDING QUALITY FOR DIFFERENT BRAZILIAN SPECIES AND PRESSING LEVELS

Silva, J.V.F.| de Oliveira, K.A.| Oliveira, C.A.B.| Silva, M.F.F.| Molina, J.C.

10.22320/s0718221x/2024.02

Detection of changes in dynamic characteristics of composite structures using Kriging metamodeling procedure: Experimental and computational analysis

Possenti, K.A.| de Menezes, V.G.S.| Vandepitte, D.| Tita, V.| Medeiros, R.D.

10.1080/15376494.2023.2245816

Development of an Embedded IoT Platform for Acoustic Emission Monitoring in Industry 4.0 †

Matheus, L.Z.| Oliveira, P.V.P.| Dotto, F.R.L.| de Oliveira Conceição, P.| Rodrigues, A.R.| da Silva, M.M.

10.3390/ecsa-11-20484

Digital roadmapping in the pandemic: lessons from collaboration in the glass industry

Piccirillo, I.N.| Amaral, D.C.| de Oliveira, M.G.| Ferreira, E.B.

10.1080/09537325.2022.2061344

IoT-Driven Deep Learning for Enhanced Industrial Production Forecasting

Augusto David, G.| Monteiro De Carvalho Monson, P.| Soares Junior, C.| De Oliveira Conceicao Junior, P.| Roberto De Aguiar, P.| Simeone, A.

10.1109/JIOT.2024.3447579

Dual-loop control strategies for vibration attenuation of a flexible parallel manipulator

Geronel, R.S.| de Oliveira, G.C.| da Silva, M.M.

10.1177/10775463241307702



ODS 9 - INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Effect of borosilicate residue as flame retardant and reinforcement filler in polypropylene/natural fiber composites

Poletto, M.R.L.| Callegari, B.| Ferreira, E.B.| Branciforti, M.C.

10.1002/app.56166

Effect of building direction and heat treatment on the wear behavior of H13 tool steel processed by laser powder bed fusion

Oliveira, A.P.| Ferreira, T.| Coelho, R.T.| Bolfarini, C.| Gargarella, P.

10.1016/j.jmrt.2024.12.012

Effect of process parameters on the geometry of single-track deposits of Inconel 718 onto AISI4140 using laser cladding

Momeni, S.| Coelho, R.T.| Nuñez, J.G.| Jasinevicius, R.G.

10.1007/s00170-024-14276-2

Effect of stress relief and solubilization heat treatments on laser additive manufactured Inconel 625: microstructure and properties

Bon, D.| Cavalcante, T.| Thiesen, A.| Santos, H.| Gutjahr, J.| Cintho, O.| Coelho, R.| de Oliveira, M.F.| Ribamar, G.G.| Avila, J.A.

10.1007/s00170-024-12967-4

Ethylparaben Toxicity on Cladocerans Daphnia Similis and Ceriodaphnia Silvestrii and Species Sensitivity Analysis

Valença, R.M.| Moreira, R.A.| Espíndola, E.L.G.| Vieira, E.M.

10.1007/s00128-023-03832-3

Evaluating A Coordinated Control Proposal in Operational Scenarios of an FPSO Oil and Gas Platform

Paes, F.L.| Souza, L.C.| Dos Santos, A.M.| De Oro Arenas, L.| Brandao, D.I.| Tedeschi, E.| Marafao, F.P.

10.1109/PCICBrasil54376.2024.10553099

Evaluation of the effects of extrusion parameters on the swelling of extruded filament in an innovative 3D printer containing a vertical co-rotating twin-screw extrusion unit

Silva, D.M.L.| Barbosa, P.A.| Chinelatto, M.A.| de Castro Silveira, Z.

10.1007/s00170-024-14233-z

Experimental Study of Micromilling of H13 Tool Steel Manufactured by Directed Energy Deposition

Gomes, M.C.| da Silva, M.B.| Hung, W.N.P.| Coelho, R.T.

10.1007/978-3-031-43555-3_17

Fused filament fabrication of partially stabilized zirconia (3Y-TZP) parts

Camargo, I.L.D.| Verza, J.R.| Garcia, J.| Di Federico, D.| Fortulan, C.A.| Luz, A.P.D.

10.1016/j.matlet.2023.135510

The use of geometrical nonlinear local resonators to enhance the vibration control performance of metamaterial structures

Santo, D.R.| Claeys, C.| Deckers, E.| de Oliveira, L.P.R.

10.1088/1742-6596/2909/1/012025



ODS 9 - INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



A hybrid model for shop floor simulation and work-in-process feedback control

Sagawa, J.K.| Mušič, G.| Borges, R.F.S.

10.1016/j.cie.2024.110309

Hydrogen Production from Sugarcane Bagasse Pentose Liquor Fermentation Using Different Food/Microorganism and Carbon/Nitrogen Ratios under Mesophilic and Thermophilic Conditions

Mattiello-Francisco, L.| Ferreira, F.V.| Peixoto, G.| Mockaitis, G.| Zaiat, M.

10.3390/fermentation10080432

Improving the robust design of piezoelectric energy harvesters by using polynomial chaos expansion and multiobjective optimization

Martins, P.H.| Trindade, M.A.| Varoto, P.S.

10.1007/s10999-023-09691-4

Influence of PMMA particle size control on the transmittance of PMMA/tempo-oxidized cellulose composites

Altarugio, J.P.| Staffa, L.H.| Carvalho, A.J.F.| Almeida, J.M.P.

10.1557/s43578-023-01173-9

Integration of Artificial Intelligence and Robotic Process Automation: Literature Review and Proposal for a Sustainable Model

Patrício, L.| Varela, L.| Silveira, Z.

10.3390/app14219648

LiDAR Integration and Robotics in Aeronautical Manufacturing for Parts Detection and localization

Souza, B.V.| Lahr, G.J.G.| Savazzi, J.O.| Caurin, G.A.P.| Porto, A.J.V.

10.1109/LASCAS60203.2024.10506170

Lysine grafted poly(lactic acid): An intrinsically antimicrobial polymer

Dorm, B.C.| Bastos, A.C.| Nossa, T.S.| Neto, B.D.| Iemma, M.R.C.| Carvalho, A.J.F.| Trovatti, E.

10.1016/j.ijbiomac.2024.133181

Management excellence practices in small- and medium-sized industries: proposition of an evaluation approach and application in an emerging country

Pacheco Junior, M.A.| Sigahi, T.F.A.C.| Rampasso, I.S.| Zanon, L.G.| Leal Filho, W.| Anholon, R.

10.1108/BIJ-11-2023-0820

A multicriteria approach for assessing the maturity of supply chains regarding the implementation of circular economy practices in Brazil

Tietz Cazeri, G.| Sigahi, T.F.A.C.| Rampasso, I.S.| de Moraes, G.H.S.M.| Zanon, L.G.| de Oliveira Gavira, M.| Paulino Pires Eustachio, J.H.| Leal Filho, W.| Anholon, R.

10.1080/13504509.2024.2304616

An objective review and perspectives on the permutation flowshop scheduling with no-wait constraint and setup times

Nagano, M.S.| Junqueira, V.S.V.| Rossi, F.L.

10.1016/j.ifacsc.2024.100279



ODS9-INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



A Platform for Manufacturing and Operation of Robot Systems

Demarchi, A.| Guedes Lang, R.| da Silva, I.N.

10.1109/SBR/WRE63066.2024.10838068

Polymeric composites in extrusion-based additive manufacturing: a systematic review

Rodrigues, A.D.S.L.| Pires, A.C.B.| Barbosa, P.A.| Silveira, Z.D.C.

10.1002/pc.28269

A proposal of models for thermal compensation in machine tools based on a formulation for in-series heat transfer

Zoppellari, A.B.| Coelho, R.T.

10.1007/s00170-023-12810-2

Psychological and Systemic Factors Influencing Behaviour in Circular Consumption Systems. Lessons from the Fast-Moving Consumer Goods and Apparel Industries

Muranko, Ž.| Gomes, G.M.| Aurisicchio, M.| Ometto, A.R.

10.1007/978-3-031-55036-2_12

Relations between supply chain performance and circular economy implementation: A fuzzy cognitive map-based analysis for sustainable development

Zanon, L.G.| Bertassini, A.C.| Sigahi, T.F.A.C.| Anholon, R.| Carpinetti, L.C.R.

10.1002/bsd2.373

A robust and simple correlation for internal flow condensation

Mani Marinheiro, M.| Borba Marchetto, D.| Furlan, G.| Theodoro de Souza Netto, A.| Bigonha Tibiriçá, C.

10.1016/j.applthermaleng.2023.121811

Starch Orodispersible Film Loaded with Melatonin for Human Supplementation

Tamanini, F.| de Souza, T.Z.| Amaral, C.S.T.| Carvalho, A.J.F.| Trovatti, E.

10.32604/jrm.2024.052288

SUBSTRACT SURFACE QUALITY INFLUENCE ON LP-DED PROCESS: EXPLORING EFFECTS ON BEAD CHARACTERISTICS AND MICROSTRUCTURE

Nunez, J.G.| Pereira, J.I.| Rodrigues, A.| Coelho, R.T.

10.1115/IMECE2024-146302

Sustainable strategies applied to supply chains: a literature review

Del Rosso Calache, L.D.| Bertassini, A.C.| Osiro, L.| Carpinetti, L.C.R.

10.1504/IJLSM.2024.139994

Wind Turbine Remaining Useful Life Prediction Using Small Dataset and Machine Learning Techniques

de Souza Pereira Gomes, G.| Moreira de Andrade Lopes, S.| Carrijo Polonio Araujo, D.| Andrade Flauzino, R.| Marques Pinto, M.| Eduardo Guerra Alves, M.

10.1007/s40313-024-01076-y



ODS 10 - REDUÇÃO DAS DESIGUALDADES



GeoCNES: healthcare mapping in Brazilian cities – a computational tool for improved decision-making

de Assis, L.B.M.| de Moraes, F.R.| Segantine, P.C.L.| Amado, M.J.D.N.P.| da Silva, I.

10.1590/1413-812320242911.02672024



ODS 11 - CIDADES E COMUNIDADES SUSTENTÁVEIS



Are we approaching the development of a novel calcium phosphate-based bioceramic dental material?

Pereira, L.F.| de Azevedo-Silva, L.J.| Minim, P.R.| Lisboa-Filho, P.N.| Fortulan, C.A.| Griggs, J.A.| Ferrairo, B.M.| Borges, A.F.S.

10.1016/j.dental.2024.07.019

Assessment of LID Performance through Integration of Permeable Pavements with Digital Twins

Brasil, J.A.T.| Giacomoni, M.H.| Papagiannakis, A.T.| Johnson, D.| Mohagheghpour, V.| Tupas, C.| Mendiõdo, E.M.

10.1061/9780784485477.022

Characterization of mixtures of Brazilian Ultisol with urban pruning waste biochar at two different proportions

Marques, J.P.| Vaz, C.M.P.| Rodrigues, V.G.S.

10.1007/s11368-024-03928-1

Collapse mechanisms and fragility curves based on Lumped Damage Mechanics for RC frames subjected to earthquakes

Bosse, R.M.| Flórez-López, J.| Gidrão, G.M.S.| Rodrigues, I.D.| Beck, A.T.

10.1016/j.engstruct.2024.118115

A Comprehensive Survey and Future Directions on Optimising Sustainable Urban Mobility

Borchers, T.| Wittowsky, D.| Fernandes, R.A.S.

10.1109/ACCESS.2024.3393470

A critical review of the mainstream anammox-based processes in warm climate regions: Potential, performance, and control strategies

Takeda, P.Y.| Paula, C.T.| Borges, A.D.V.| Shibata, A.E.| Grangeiro, L.C.| Damjanovic, M.H.R.Z.

10.1016/j.jece.2024.113691

Defining nutrient ecoregions for reference nitrogen and phosphorus concentrations in rivers from the major South American biomes

Tromboni, F.| Dodds, W.K.| Cunha, D.G.F.| Monteiro, J.A.F.| Avocat, H.| Caldas, M.| Gücker, B.

10.1016/j.scitotenv.2023.168563

Developing an open-source flood forecasting system adapted to data-scarce regions: A digital twin coupled with hydrologic-hydrodynamic simulations

M. C. Rápalo, L.| Gomes Jr, M.N.| Mendiõdo, E.M.

10.1016/j.jhydrol.2024.131929

Evaluation of *Geobacillus stearothermophilus* inactivation in a healthcare waste treatment by autoclaving

de Oliveira, A.B.R.| Schalch, V.

10.1504/IJEWM.2024.142505



ODS 11 - CIDADES E COMUNIDADES SUSTENTÁVEIS



Evolution of social engagement in flood risk assessment: New approaches and emerging concerns using case studies from Brazil

Souza, F.A.A.| Mis, N.B.| Buarque, A.C.S.| de Oliveira Sousa, B.J.| Fialho, H.C.P.| Abreu, F.G.| Fava, M.C.| Restrepo-Estrada, C.| de Oliveira, P.T.S.| Mendiõdo, E.M.

10.4337/9781839102981.00011

Fragility analysis of tubular structures based on local-buckling driving variables

Montilla, S.K.| Bosse, R.M.| Gidrão, G.M.S.| Beck, A.T.| Picón, R.A.| Liu, J.| Bai, Y.| Florez-Lopez, J.

10.1016/j.ijmecsci.2024.109776

GeoCNES: healthcare mapping in Brazilian cities – a computational tool for improved decision-making

de Assis, L.B.M.| de Moraes, F.R.| Segantine, P.C.L.| Amado, M.J.D.N.P.| da Silva, I.

10.1590/1413-812320242911.02672024

Global optimization-based calibration algorithm for a 2D distributed hydrologic-hydrodynamic and water quality model

Gomes, M.N.| Giacomoni, M.H.| Navarro, F.A.R.| Mendiõdo, E.M.

10.1016/j.envsoft.2024.106128

Impedance Control Analysis for Legged Locomotion in Oscillating Ground

Medeiros, V.S.| Escalante, F.M.| Becker, M.| Boaventura, T.

10.1007/978-3-031-47272-5_17

Improving pluvial flood mapping resolution of large coarse models with deep learning

Ambrogi Ferreira Do Lago, C.| Brasil, J.A.T.| Nóbrega Gomes, M.| Mendiõdo, E.M.| Giacomoni, M.H.

10.1080/02626667.2024.2329268

Index-based insurance to mitigate current and future extreme events financial losses for water utilities

Gesualdo, G.C.| Benso, M.R.| Sass, K.S.| Mendiõdo, E.M.

10.1016/j.ijdr.2023.104218

A Multilayer System and Optimization Framework for Team Dispatch Towards Service Recovery

Desuo N., L.| Fogliatto, M.S.S.| Caetano, H.O.| Pereira J., B.R.| London J., J.B.A.| Maclel, C.D.

10.1109/TR.2023.3310365

Natural weathering effects of nonwoven geotextile exposed to different climate conditions

Dias Filho, J.L.E.| Silva, J.L.| Valentin, C.A.| Fleury, M.P.| Aparicio-Ardila, M.A.| Vidal, D.M.| Costa, C.M.L.

10.1680/jgein.23.00156



ODS 11 - CIDADES E COMUNIDADES SUSTENTÁVEIS



Optimizing surface water quality parameters in monitoring networks in a developing sub-tropical region with high anthropogenic pressure (São Paulo State Brazil)

de Almeida, R.G.B.| Cunha, D.G.F.

10.1007/s11356-024-35345-9

Post-sorption of Cd, Pb, and Zn onto peat, compost, and biochar: Short-term effects of ecotoxicity and bioaccessibility

Lima, J.Z.| Ogura, A.P.| Espíndola, E.L.G.| Ferreira da Silva, E.| Rodrigues, V.G.S.

10.1016/j.chemosphere.2024.141521

Real-time regulation of detention ponds via feedback control: Balancing flood mitigation and water quality

Gomes, M.N.| Taha, A.F.| Rápalo, L.M.C.| Mendiando, E.M.| Giacomoni, M.H.

10.1016/j.jhydrol.2024.131866

Spatial Modeling of Travel Demand Accounting for Multicollinearity and Different Sampling Strategies: A Stop-Level Case Study

De França Marques, S.| Pitombo, C.S.| Gómez-Hernández, J.J.

10.1155/2024/7967141

A Sustainable Approach to How Roadway Recognition Affects Drivers' Speed Choice

Ribeiro, R.S.| Albarracin, O.Y.E.| Linhares, G.R.| Larocca, A.P.C.| Bernucci, L.L.B.

10.3390/su16156546

Toward a Direct CO2 Tax for the Brazilian LDV Fleet

Mosquim, R.F.| Collaço, F.M.D.A.| Mady, C.E.K.

10.3390/en17112467

Unveiling substitution patterns of work trips by teleworking and their associations with physical and virtual accessibility in the Brazilian COVID-19 crisis

Pedreira Junior, J.U.| Pitombo, C.S.

10.1016/j.tbs.2023.100657

Urban ecohydrology under socioeconomic scenarios: The protagonism of nature-based solutions in a changing future

Navarro, F.A.R.| de Macedo, M.B.| Benso, M.R.| Mendiando, E.M.

10.1016/j.ecohyd.2023.11.010

Using plants to manage uncontrolled dumpsites: metal phytoremediation by endemic species from subtropical sites

Morita, A.K.M.| Niviadonski, L.M.| Leite, M.B.| Wendland, E.

10.1007/s13762-023-05306-9

Water level identification with laser sensors, inertial units, and machine learning

Ranieri, C.M.| Foletto, A.V.K.| Garcia, R.D.| Matos, S.N.| Medina, M.M.G.| Marcolino, L.S.| Ueyama, J.

10.1016/j.engappai.2023.107235

ODS 12- CONSUMO E PRODUÇÃO RESPONSÁVEIS

Analysis of the quality of sustainability reports published by Brazilian companies: An analytic hierarchy process-grey clustering approach

Sousa, I.C.D.| Sigahi, T.F.A.C.| Rampasso, I.S.| Pinto, J.D.S.| Zanon, L.G.| Leal Filho, W.| Anholon, R.

10.1002/csr.2804

Are we approaching the development of a novel calcium phosphate-based bioceramic dental material?

Pereira, L.F.| de Azevedo-Silva, L.J.| Minim, P.R.| Lisboa-Filho, P.N.| Fortulan, C.A.| Griggs, J.A.| Ferrairo, B.M.| Borges, A.F.S.

10.1016/j.dental.2024.07.019

The Bioenergetic Potential from Coffee Processing Residues: Towards an Industrial Symbiosis

Albarracin, L.T.| Mas, I.R.| Fuess, L.T.| Rodriguez, R.P.| Volpi, M.P.C.| de Souza Moraes, B.

10.3390/resources13020021

Bridging excellence, knowledge management and sustainability: Introducing the 'Knowledge Management Excellence Model 21', a model for sustainable development goals alignment

Barrantes-Briceño, C.E.| Almada Santos, F.C.| Nagano, M.S.

10.1016/j.jclepro.2024.142326

A comprehensive analysis of sustainable fertilizer-related publications within the context of circular economy: Insights from the field of business management

Kodama, T.K.| Nagano, M.S.| Miyata, H.H.| Ometto, A.R.| Beal, C.

10.1016/j.clpl.2024.100077

Use of Construction and Demolition Waste for the Treatment of Dye-Contaminated Water Toward Circular economy

Domingues, N.S.| Romão, É.L.| Alvim, D.S.| Marques, J.P.| Rodrigues, V.G.S.| Kasemodel, M.C.

10.1007/s11270-024-07421-w

G20 countries' progress on the 7th SDG under circular economy DEA model

Campoli, J.S.| Alves Junior, P.N.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1016/j.envsci.2024.103839

Development of polysaccharide bioplastic: Analysis of thermo-mechanical properties and different environmental implications

Abe, M.M.| Portinho, J.L.| Gonçalves, M.D.M.C.| Sanvezzo, P.B.| Freitas, C.D.| de Souza, J.F.| Carneiro, R.| Ferragut, C.| Costa, M.L.| Aouada, M.R.D.M.| Branciforti, M.C.| Freire, C.C.D.C.| Maintinguer, S.I.| Brienzo, M.

10.1016/j.jclepro.2024.143163

Effect of borosilicate residue as flame retardant and reinforcement filler in polypropylene/natural fiber composites

Poletto, M.R.L.| Callegari, B.| Ferreira, E.B.| Branciforti, M.C.

10.1002/app.56166

Evaluation of Geobacillus stearothermophilus inactivation in a healthcare waste treatment by autoclaving

de Oliveira, A.B.R.| Schalch, V.

10.1504/IJEW.2024.142505

ODS 12- CONSUMO E PRODUÇÃO RESPONSÁVEIS

Front-end of innovation: a systematic review and lifecycle analysis

de Oliveira, M.G.| Mendes, G.H.S.| Mendes Serrano, K.

10.1108/EJIM-01-2022-0047

Innovative system to maximize methane production from fruit and vegetable waste

de Menezes, C.A.| dos Santos, D.R.| Cavalcante, W.D.A.| Almeida, P.D.S.| Silva, T.P.| da Silva Júnior, F.D.C.G.| Gehring, T.A.| Zaiat, M.| dos Santos, A.B.| Leitão, R.C.

10.1007/s11356-024-35328-w

A multicriteria approach for assessing the maturity of supply chains regarding the implementation of circular economy practices in Brazil

Tietz Cazeri, G.| Sigahi, T.F.A.C.| Rampasso, I.S.| de Moraes, G.H.S.M.| Zanon, L.G.| de Oliveira Gavira, M.| Paulino Pires Eustachio, J.H.| Leal Filho, W.| Anholon, R.

10.1080/13504509.2024.2304616

Post-sorption of Cd, Pb, and Zn onto peat, compost, and biochar: Short-term effects of ecotoxicity and bioaccessibility

Lima, J.Z.| Ogura, A.P.| Espíndola, E.L.G.| Ferreira da Silva, E.| Rodrigues, V.G.S.

10.1016/j.chemosphere.2024.141521

Recent Advances on Microplastics and Nanoplastics Impacts to the United Nations' Sustainable Development Goal 2—Zero Hunger: a Systematic Review

Soares, Á.K.M.| Rodrigues, V.G.S.

10.1007/s11270-024-07590-8

Reducing costs of Giardia spp. cyst enumeration using machine learning-based systems

Belini, V.L.| Fava, N.M.N.| Sabogal-Paz, L.P.

10.2166/wpt.2024.087

Relations between supply chain performance and circular economy implementation: A fuzzy cognitive map-based analysis for sustainable development

Zanon, L.G.| Bertassini, A.C.| Sigahi, T.F.A.C.| Anholon, R.| Carpinetti, L.C.R.

10.1002/bsd2.373

Sustainable strategies applied to supply chains: a literature review

Del Rosso Calache, L.D.| Bertassini, A.C.| Osiro, L.| Carpinetti, L.C.R.

10.1504/IJLSM.2024.139994

Systematic review of alternative materials that improve retention of potentially toxic metals in soil/clay liners in waste disposal areas

Marques, J.P.| Nauerth, I.M.R.| Kasemodel, M.C.| Rodrigues, V.G.S.

10.1007/s10661-024-12546-w

Using plants to manage uncontrolled dumpsites: metal phytoremediation by endemic species from subtropical sites

Morita, A.K.M.| Niviadonski, L.M.| Leite, M.B.| Wendland, E.

10.1007/s13762-023-05306-9



ODS 13-AÇÃO CONTRA A MUDANÇA GLOBAL DO CLIMA



Carbon dioxide and methane emissions across tropical and subtropical inland water ecosystems in Brazil: meta-analysis of general patterns and potential drivers

de Souza Ferreira, M.| Dodds, W.K.| Fernandes Cunha, D.G.

10.23818/limn.43.17

A comprehensive analysis of sustainable fertilizer-related publications within the context of circular economy: Insights from the field of business management

Kodama, T.K.| Nagano, M.S.| Miyata, H.H.| Ometto, A.R.| Beal, C.

10.1016/j.clpl.2024.100077

G20 countries' progress on the 7th SDG under circular economy DEA model

Campoli, J.S.| Alves Junior, P.N.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1016/j.envsci.2024.103839

A Data-Driven Method for Water Quality Analysis and Prediction for Localized Irrigation

da Silva, R.F.| Benso, M.R.| Corrêa, F.E.| Messias, T.G.| Mendonça, F.C.| Marques, P.A.A.| Duarte, S.N.| Mendiando, E.M.| Delbem, A.C.B.| Saraiva, A.M.

10.3390/agriengineering6020103

Distribution and transmission coordinated dispatch under joint electricity and carbon day-ahead markets

Faria, W.R.| Muñoz-Delgado, G.| Contreras, J.| Pereira Junior, B.R.

10.1016/j.segan.2024.101393

Drought intensification in Brazilian catchments: implications for water and land management

Ballarin, A.S.| Vargas Godoy, M.R.| Zaerpour, M.| Abdelmoaty, H.M.| Hatami, S.| Gavasso-Rita, Y.L.| Wendland, E.| Papalexiou, S.M.

10.1088/1748-9326/ad3e18

Enhancing drought resilience and vulnerability assessment in small farms: A global expert survey on multidimensional indicators

Sass, K.S.| Konak, A.| Batalini de Macedo, M.| Benso, M.R.| Shrimpton, E.| Balta-Ozkan, N.| Sarmah, T.| Mendiando, E.M.| Jesus da Silva, G.| Câmara da Silva, P.G.| Nardocci, A.C.| Jacobson, M.

10.1016/j.ijdr.2024.104616

Frequency Rather Than Intensity Drives Projected Changes of Rainfall Events in Brazil

Ballarin, A.S.| Wendland, E.| Zaerpour, M.| Hatami, S.| Meira Neto, A.A.| Papalexiou, S.M.

10.1029/2023EF004053



ODS 13-AÇÃO CONTRA A MUDANÇA GLOBAL DO CLIMA



Impacts of agriculture and snow dynamics on catchment water balance in the U.S. and Great Britain

Zaerpour, M.| Hatami, S.| Ballarin, A.S.| Knoben, W.J.M.| Papalexiou, S.M.| Pietroniro, A.| Clark, M.P.

10.1038/s43247-024-01891-w

Multi-model ensemble for long-term statistical trend analysis of observed gridded precipitation and temperature data in the São Francisco River Basin, Brazil

Vasco, G.| Miranda, R.Q.| Viana, J.F.S.| Bressiani, D.| Mendiolo, E.M.| da Silva, R.M.| Galvino, J.D.| da Silva, S.F.| Montenegro, S.M.G.L.

10.1590/2318-0331.292420240042

Nonlinear numerical analysis of corroded reinforced concrete structures using laminated frame elements

Teodoro, C.P.| Carrazedo, R.

10.1617/s11527-024-02386-y

Open-Source Data Logger System for Real-Time Monitoring and Fault Detection in Bench Testing

Amorim, M.L.M.| Lima, J.G.| Torres, N.N.S.| Afonso, J.A.| Lopes, S.F.| Carmo, J.P.P.D.| Hartmann, L.V.| Souto, C.R.| Salvadori, F.| Ando Junior, O.H

10.3390/inventions9060120

Quantifying Soil Loss in the Brazilian Savanna Ecosystem: Current Rates and Anticipated Impact of Climate Changes

Schwamback, D.| Amorim Brandão, A.R.| Bertotto, L.E.| Berndtsson, R.| Zhang, L.| Wendland, E.| Persson, M.

10.1002/ldr.5331

Rapid method for determination of biogas composition by gas chromatography coupled to a thermal conductivity detector (GC-TCD)

Araujo, M.N.| Vargas, S.R.| Soares, L.A.| Trindade, L.F.| Fuess, L.T.| Adorno, M.A.T.

10.1080/03067319.2023.2210055

Toward a Direct CO2 Tax for the Brazilian LDV Fleet

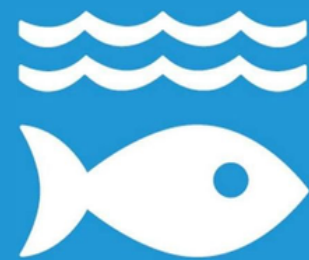
Mosquim, R.F.| Collaço, F.M.D.A.| Mady, C.E.K.

10.3390/en17112467

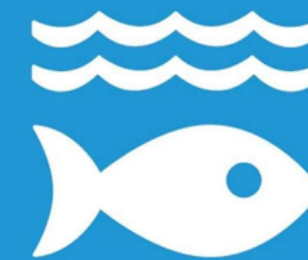
Using correlation of variables to compare different configurations of microalgae-based wastewater treatment systems

Lima, E.M.M.N.| Sueitt, A.P.E.| Daniel, L.A.

10.1007/s13762-023-05289-7



ODS 14-VIDA NA ÁGUA



Defining nutrient ecoregions for reference nitrogen and phosphorus concentrations in rivers from the major South American biomes

Tromboni, F.| Dodds, W.K.| Cunha, D.G.F.| Monteiro, J.A.F.| Avocat, H.| Caldas, M.| Gücker, B.

10.1016/j.scitotenv.2023.168563

Impact of rapid anthropogenic environmental change on water security in a tropical Andean basin

Cepeda Arias, E.| Cañón Barriga, J.| Mario Mendiando, E.

10.1016/j.wasec.2024.100175

Can microplastic contamination affect the wing morphology and wingbeat frequency of *Aedes aegypti* (Diptera: Culicidae) mosquitoes?

de Nadai, B.L.| Moura, L.| Castro, G.B.| Silva, K.J.S.| Maletzke, A.G.| Corbi, J.J.| Batista, G.E.A.P.A.| Machado, R.B.

10.1007/s11356-024-35161-1

Multi-UAV Collaborative System for the Identification of Surface Cyanobacterial Blooms and Aquatic Macrophytes

Vivaldini, K.| Pazelli, T.| Rocha, L.| Santos, I.| Caldas, K.| Soler, D.| Benevides, J.| Simplicio, P.| Hernandez, A.| Andrade, K.| Kim, P.| Alvarez, I.| Nascimento, E.| Santos, M.| Almeida, A.| Cavalcanti, L.| Inoue, R.| Terra, M.| Becker, M.

10.1007/s10846-023-02043-6



ODS 15 - VIDA TERRESTRE



Assessment of the impact of conservation measures by modeling soil loss in Minas Gerais, Brazil

Soares, A.K.M.| Crestana, S.| Ferreira, R.R.M.| Rodrigues, V.G.S.

10.1007/s10661-024-12509-1

A comprehensive analysis of sustainable fertilizer-related publications within the context of circular economy: Insights from the field of business management

Kodama, T.K.| Nagano, M.S.| Miyata, H.H.| Ometto, A.R.| Beal, C.

10.1016/j.clpl.2024.100077

Dam removal effects on carbon processing in a mountainous Mediterranean stream

Bega, J.M.M.| Cunha, D.G.F.| López, M.M.| Camacho-Santamans, A.| von Schiller, D.

10.1016/j.scitotenv.2024.176672

Effects of riparian vegetation restoration and environmental context on ecosystem functioning in tropical streams of southeastern Brazil

Bega, J.M.M.| Saltarelli, W.A.| Gücker, B.| Boëchat, I.G.| Finkler, N.R.| Cunha, D.G.F.

10.1016/j.scitotenv.2024.174906

Efficiency and productivity to social welfare: the case of the main forestry-producing micro-regions in Brazil

Campoli, J.S.| Junior, P.N.A.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1590/1806-9479.2023.276680

Enhancing Water Ecosystem Services Using Environmental Zoning in Land Use Planning

Anjinho, P.D.S.| Barbosa, M.A.G.A.| Peponi, A.| Duarte, G.| Branco, P.| Ferreira, M.T.| Mauad, F.F.

10.3390/su16114803

Influence of Test Method on the Determination of Tensile Strength Perpendicular to Grain of Timber for Civil Construction

Nogueira, R.D.S.| Moritani, F.Y.| Christoforo, A.L.| Monteiro, S.N.| de Azevedo, A.R.G.| dos Santos, H.F.| Lahr, F.A.R.

10.3390/ma17184506

Integrated Use of Synthetic Aperture Radar and Optical Data in Mapping Native Vegetation: A Study in a Transitional Brazilian Cerrado–Atlantic Forest Interface

Santos, A.R.| Barbosa, M.A.G.A.| Anjinho, P.S.| Parizotto, D.| Mauad, F.F.

10.3390/rs16142559



ODS 15 - VIDA TERRESTRE



Land use transformations in the Brazilian Savanna: A decade of soil erosion and runoff measurements

Schwamback, D.| Amorim Brandão, A.R.| Rosalem, L.M.P.| Oliveira, P.T.S.| Anache, J.A.A.| Wendland, E.| Berndtsson, R.| Persson, M.

10.1016/j.catena.2024.108412

New insights into the mechanism of azo dye biodegradation by *Lactococcus lactis*

Oliveira, J.M.S.| Poulsen, J.S.| Foresti, E.| Nielsen, J.L.

10.1016/j.jece.2024.113670

Overview of Payments for Environmental Services scientific publications in Brazil

Guerra, B.R.| Verdasca, S.| e Almeida, M.R.R.| Ranieri, V.E.L.

10.1590/1809-4422asoc0101r2vu27l10A

Recent Advances on Microplastics and Nanoplastics Impacts to the United Nations' Sustainable Development Goal 2—Zero Hunger: a Systematic Review

Soares, Á.K.M.| Rodrigues, V.G.S.

10.1007/s11270-024-07590-8

Spatial Modeling of Travel Demand Accounting for Multicollinearity and Different Sampling Strategies: A Stop-Level Case Study

De França Marques, S.| Pitombo, C.S.| Gómez-Hernández, J.J.

10.1155/2024/7967141

Tolerance of free-floating aquatic macrophytes to sugarcane vinasse and its implications for phytoremediation strategies

de Brito, L.F.P.| Espíndola, E.L.G.| Ogura, A.P.

10.2166/washdev.2024.240

Urban ecohydrology under socioeconomic scenarios: The protagonism of nature-based solutions in a changing future

Navarro, F.A.R.| de Macedo, M.B.| Benso, M.R.| Mendiando, E.M.

10.1016/j.ecohyd.2023.11.010

Using plants to manage uncontrolled dumpsites: metal phytoremediation by endemic species from subtropical sites

Morita, A.K.M.| Niviadonski, L.M.| Leite, M.B.| Wendland, E.

10.1007/s13762-023-05306-9



ODS 16 - PAZ, JUSTIÇA E INSTITUIÇÕES EFICAZES



An iterative design procedure for the development of assistive devices based on a participatory approach

Rodrigues, A.D.S.L. | Martinez, L.B.A. | Silveira, Z.C.

10.1007/s40430-024-04695-3

A multicriteria approach for assessing the maturity of supply chains regarding the implementation of circular economy practices in Brazil

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