



OBJETIVOS DE DESENVOLVIMENTO SUSTENTÁVEL





ODS 2 - FOME ZERO E AGRICULTURA SUSTENTÁVEL



CROW: A Self-Supervised Crop Row Navigation Algorithm for Agricultural Fields

Benso, M.R.| Silva, R.F.| Chiquito Gesualdo, G.| Saraiva, A.M.|
Delbem, A.C.B.| Marques, P.A.A.| Marengo, J.A.| Mendondo, E.M.

10.5194/nhess-25-1387-2025

A data-driven framework for assessing climatic impact drivers in the context of food security

Affonso, F.| Tommaselli, F.A.G.| Capezzuto, G.| Gasparino, M.V.|
Chowdhary, G.| Becker, M.

10.1007/s10846-025-02219-2

Design and Performance of a Multicomponent Glass Fertilizer for Nutrient Delivery in Precision Agriculture

Soares, J.H.D.S.| Boaventura, T.W.| de Moura, A.C.A.| da Silva, L.C.| Filho, A.G.|
Landgraf, R.L.| Christofolletti Mazzeo, D.E.| Bernardi, A.C.D.C.|
Nogueira, A.R.A.| Ferreira, E.B.| Manzani, D.

10.1021/acsagscitech.4c00243

Enhancing Representativeness of Eddy Covariance Evapotranspiration With Remote Sensing and In Situ Data: A Case Study in the Brazilian Cerrado

Kobayashi, A.| Anache, J.| Sone, J.| Gesualdo, G.|
Schwamback, D.| Wendland, E.

10.1002/eco.70012

How likely is Ukraine to experience an extreme drought in the near future?

Ballarin, A.S.| Markonis, Y.| Rakovec, O.| Papalexiou, S.M.

10.1007/s10584-025-03958-9

Pathways to circular nutrient ecosystems: Strategic roadmaps addressing sustainability drivers and barriers in Australia

Ometto, A.R.| Koskue, V.| Cerdán, J.M.A.| de Melo Duarte Borges, T.| Roiko, A.|
Iftekhhar, S.| Cordell, D.| Roods, J.| Shon, H.K.| Freguia, S.| Oliveira, M.G.|
de Vasconcelos Gomes, L.A.| Evans, S.| Beal, C.

10.1016/j.spc.2025.04.017

Prediction of physical-mechanical properties, CO2 capture, and storage in accelerated weathering of basaltic rocks from the Serra Geral Group

de Oliveira, P.C.| Zuquette, L.V.

10.1016/j.jsames.2025.105677

Soil Moisture-Drought Nexus across Brazil: Identifying Current Issues and Future Perspectives

Bertotto, L.E.| De Medeiros Costa, H.K.| Alves Vasconcelos, P.E.|
De Araújo, I.L.| Wendland, E.C.

10.1061/JWRMD5.WRENG-6575

Uptake of 2,4-D and fipronil by green manure species: an ecotoxicological assessment of soil phytoremediation

Ogura, A.P.| Dias, M.A.| Negro, G.S.| Felipe, M.C.| Bernegossi, A.C.|
Castro, G.B.| Montagner, C.C.| Espíndola, E.L.G.

10.1080/15226514.2025.2529965

Usability of agricultural drought vulnerability and resilience indicators in planning strategies for small farms: A principal component approach

Sarmah, T.| Balta-Ozkan, N.| Konak, A.| Shrimpton, E.| Sass, K.S.| De
Macedo, M.B.| Mendiondo, E.M.| Nardocci, A.C.| Huo, D.| Jacobson, M.G.

10.1016/j.cliser.2025.100569

Workload considerations in simultaneous piloting of multiple RPA on agricultural spraying

Gonçalves, M.C.| Bidinotto, J.H.

10.1007/s13272-025-00838-x



ODS 3 - SAÚDE E BEM-ESTAR



Automated household-based water disinfection system for rural communities: Field trials and community appropriation

Hincapié, M.| Galdós-Balzategui, A.| Freitas, B.L.S.| Reygadas, F.| Sabogal-Paz, L.P.| Pichel, N.| Botero, L.| Montoya, L.J.| Galeano, L.| Carvajal, G.| Lubarsky, H.| Ng, K.Y.| Price, R.| Gaihre, S.| Byrne, J.A.| Fernández-Ibáñez, P.

10.1016/j.watres.2025.123888

Breast Cancer Classification Using Gradient Boosting Algorithms Focusing on Reducing the False Negative and SHAP for Explainability

Pinheiro, J.M.H.| Becker, M.

10.4114/intartif.vol28iss75pp63-80

Coordination Compounds as Antivirals against Neglected Tropical Diseases

Rezende, W.S.| Neto, A.M.| Corbi, J.J.| Corbi, P.P.| de Paiva, R.E.F.| Bergamini, F.R.G.

10.1002/cmdc.202400799

Crashworthiness assessment of a composite fuselage stanchion employing a strain rate dependent damage model

Miranda, M.| Cini, A.| Raimondo, A.| Tita, V.

10.1016/j.compstruct.2024.118674

Effects of Biochar on Arsenic-Contaminated Soil: Chemical Fractionation, Vegetation Growth, and Oral Bioaccessibility

Lima, J.Z.| Rodrigues, V.G.S.

10.1007/s00267-024-02067-0

Effects of biochar on soil contaminated by metals and metalloids from slag disposal of an old environmental liability in Ribeira Valley, Brazil

Lima, J.Z.| Rodrigues, V.G.S.

10.1016/j.jenvman.2024.123782

Evaluation of solar ultraviolet blocking by sunglasses and their compliance with recommended safety limits

Masili, M.| Duarte, F.O.| Ventura, L.

10.1007/s42600-024-00390-3



ODS3-SAÚDE E BEM-ESTAR



Functionalization of nanostructured Niobium oxide with natural antioxidants for biomedical purposes

Oliveira, P.A.| Farnesi-de-Assunção, T.S.| Rotta, I.S.| Ferrazzoli Devienne
Vicentine, K.| Vicentine, D.| Paiva, A.D.| dos Santos Alvares, D.| Alvares, S.
Teodoro, M.D.| Wolf, W.| Moreto, J.A.| Slade, N.B.L.

10.1007/s42247-025-01172-y

Microwave Glucose Sensing Using Double Circular Split Ring Resonators for Improved Sensitivity: The Role of Artificial Blood Plasma and Deionized Water

Souza, M.I.O.| Santos, N.M.| Alarcon, J.C.P.| Varanda, L.C.|
Pepino, V.M.| Borges, B.H.V.

10.1109/JSEN.2024.3516571

A Microwave Sensor Based on Concentric Split-Ring Resonators for Blood Urea Detection: A Novel Tool for Chronic Kidney Disease Diagnosis

Souza, M.I.| Santos, N.M.| Varanda, L.C.| Pepino, V.M.| Borges,
B.-H.V.

10.1109/JSEN.2025.3570067

Pathways to circular nutrient ecosystems: Strategic roadmaps addressing sustainability drivers and barriers in Australia

Ometto, A.R.| Koskue, V.| Cerdán, J.M.A.| de Melo Duarte Borges, T.| Roiko,
A.| Iftekhar, S.| Cordell, D.| Roods, J.| Shon, H.K.| Freguia, S.| Oliveira, M.G.|
de Vasconcelos Gomes, L.A.| Evans, S.| Beal, C.

10.1016/j.spc.2025.04.017

Progress of G20 Nations on the 6th Sustainable Development Goal Under the Circular Economy Perspective

Campoli, J.S.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1007/s13132-024-02475-x

A Spectrophotometric Study of the Interaction of Quercetin and Tannic Acid with Mimetic Systems of Cancerous and Healthy Cells

Oliveira, P.A.| Mendes, L.A.| Silva, V.O.| Scarparo, P.V.|
Conceição, L.C.| Maia, P.I.S.| Moreto, J.A.| Slade, N.B.L.

10.21577/0103-5053.20250010



ODS 4 - EDUCAÇÃO DE QUALIDADE



Challenges and prospects for sorting and disposing of household solid waste: a case study of a recycling cooperative in Minas Gerais, Brazil

Carvalho, M.V.| Rodrigues, E.F.| Schalch, V.| de Mello Innocentini, M.D.| Simão, L.

10.5585/2025.26076

Gender equality in education: An analysis of entrepreneurial behavior in technological colleges in a developing country

de Moraes, M.A.| de Moraes, G.H.S.M.| Rampasso, I.S.| Pacagnella Júnior, A.C.| de Siqueira Camargo Vasconcelos, D.| Anholon, R.

10.1080/14703297.2024.2357710



ODS 5 - IGUALDADE DE GÊNERO



Challenges and prospects for sorting and disposing of household solid waste: a case study of a recycling cooperative in Minas Gerais, Brazil

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Innocentini, M.D.| Simão, L.

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Júnior, A.C.| de Siqueira Camargo Vasconcelos, D.| Anholon, R.

10.1080/14703297.2024.2357710



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



Achieving stable nitrogen removal through mainstream partial nitrification, anammox and denitrification (SNAD) with a hybrid biofilm-granular reactor

Takeda, P.Y.| Paula, C.T.| Dias, M.E.S.| Borges, A.D.V.|
Damianovic, M.H.R.Z.

10.1016/j.chemosphere.2025.144105

Agriculture's impact on water-energy balance varies across climates

Zaerpour, M.| Hatami, S.| Ballarin, A.S.| Papalexiou, S.M.|
Pietroniro, A.| Nazemi, A.

10.1073/pnas.2410521122

Assessing future changes in hydroclimatic processes in the Metropolitan Region of Belo Horizonte, Brazil, with the expanded Bluecat framework

Santos, L.R.| Barbosa, A.D.G.| Leite, C.C.O.| Silva, G.M.E.|
Mendiondo, E.M.| Costa, V.A.F.

10.3389/frwa.2025.1541052

Automated household-based water disinfection system for rural communities: Field trials and community appropriation

Hincapié, M.| Galdós-Balzategui, A.| Freitas, B.L.S.| Reygadas, F.| Sabogal-Paz,
L.P.| Pichel, N.| Botero, L.| Montoya, L.J.| Galeano, L.| Carvajal, G.| Lubarsky, H.| Ng,
K.Y.| Price, R.| Gaihré, S.| Byrne, J.A.| Fernández-Ibáñez, P.

10.1016/j.watres.2025.123888

Benchmark problem library for water distribution system modeling

de Mendonça, J.V.| Medina, M.M.G.

10.1590/2318-0331.302520240134

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

Biohydrogen production from wastewater-grown microalgae-bacteria consortia: Optimizing inoculum selection for enhanced yield

Silva, T.A.| de Araujo, M.N.| de Rezende, E.G.F.| Saia, F.T.| Magalhães, I.B.|
de Paula Pereira, A.S.A.| Ferreira, J.| Gregoracci, G.B.| Tallarico Adorno,
M.Â.| Fuess, L.T.| Zaiat, M.| Calijuri, M.L.

10.1016/j.renene.2025.123079

Challenges in achieving partial nitrification: Simultaneous nitrification-denitrification as the dominant pathway in municipal wastewater treatment

Takeda, P.Y.| Tavares Paula, C.| Braz Carneiro, R.| do Vale Borges,
A.| Cardoso Grangeiro, L.| Rissato Zamariolli Damianovic, M.H.

10.1016/j.jece.2025.115839

Chemical and ecotoxicological assessment of the uptake of pesticides 2,4-D and fipronil by free-floating aquatic macrophytes

Ogura, A.P.| Dias, M.A.| Marestoni, I.F.| Bernegossi, A.C.| Felipe,
M.C.| Montagner, C.C.| Espíndola, E.L.G.

10.1007/s13762-024-06287-z

Climate shapes baseflows, influencing drought severity

Zaerpour, M.| Hatami, S.| Ballarin, A.S.| Papalexiou, S.M.|
Pietroniro, A.| Adamowski, J.F.

10.1088/1748-9326/ad975a



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



Effects of simultaneous hygrothermal aging and thermal shock cycling on carbon fiber-reinforced polyphenylene sulfide composite performance

Tarpani, A.C.S.P.| Goyo Brito, F.J.| Tarpani, J.R.

10.1002/pc.29719

Elutriates and Leachates of Soil Microcosms Contaminated With 2,4-D, Fipronil, and Their Mixtures Affect the Life-history Traits of Ceriodaphnia Silvestrii (Crustacea: Cladocera)

Caldas, L.L.| Alexandre, D.S.| Ogura, A.P.| da Silva, L.C.M.| da Silva Pinto, T.J.| Moreira, R.A.| de Oliveira Zacharias, T.| Montagner, C.C.| Espíndola, E.L.G.

10.1007/s11270-025-08012-z

Experimental analysis of velocity field characteristics within bubble wakes in fiber bundle

Neumeister, R.F.| Kurimoto, R.| Komine, R.| Ribatski, G.| Hayashi, K.

10.1016/j.ijmultiphaseflow.2025.105197

Flood mapping based on machine learning: a lexicometric analysis

Gallindo, I.O.| Munaro, A.C.J.| Anache, J.A.A.| de Vasconcelos, A.M.

10.1590/2318-0331.302520240020

Glass-ceramics as photocatalysts in water treatment: A review

Revelo, R.-J.| Bellini Ferreira, E.| Galeano, L.-A.

10.1016/j.jece.2025.117245

Hydrogen production from fermented sugarcane vinasse and its utilization by biosynthesis processes in a single-chambered microbial electrolysis cell

Anzola-Rojas, M.D.P.| Sánchez, F.E.| Fuess, L.T.| Pozzi, E.| Nolasco, M.A.| De Wever, H.| Pant, D.| Zaiat, M.

10.1016/j.ijhydene.2024.12.308

Hydrogen production in an anaerobic fixed-bed reactor for the processing of condensed water from the sugar-alcohol industry

Callado, N.H.| Zaiat, M.| Sakamoto, I.| Azevedo, F.P.F.

10.1590/S1413-415220240037

Hydrological heritage: a historical exploration of human-water dynamics in northeast Brazil

Pereira, B.S.| Uchôa, J.G.S.M.| Freitas, G.S.| Meira Neto, A.A.| Anache, J.A.A.| Wendland, E.C.| Mendiondo, E.M.| Medeiros, P.H.A.

10.1080/02626667.2024.2446272

Improved Grunsky method for streamflow prediction in ungauged catchments

Marchezepe, B.K.| Almagro, A.| Ballarin, A.S.| Oliveira, P.T.S.

10.1080/02626667.2024.2446278

Nitrogen removal from multi-electrolyte saline wastewater via mainstream anammox in warm climate conditions

Tavares Paula, C.| Takeda, P.Y.| Lelis Giglio, G.| Damianovic, M.H.R.Z.

10.1016/j.jenvman.2025.124271



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



Panta Rhei: a decade of progress in research on change in hydrology and society

Kreibich, H.| Sivapalan, M.| AghaKouchak, A.| et.al.

10.1080/02626667.2025.2469762

Pathways to circular nutrient ecosystems: Strategic roadmaps addressing sustainability drivers and barriers in Australia

Ometto, A.R.| Koskue, V.| Cerdán, J.M.A.| de Melo Duarte Borges, T.| Roiko, A.| Iftekhar, S.| Cordell, D.| Roods, J.| Shon, H.K.| Freguia, S.| Oliveira, M.G.| de Vasconcelos Gomes, L.A.| Evans, S.| Beal, C.

10.1016/j.spc.2025.04.017

Phosphorus adsorption of a residue from the pulp and paper industry (grits): contributions to tertiary wastewater treatment

Kohatsu, M.Y.| do Carmo Calijuri, M.| de Paula, R.Z.| Arantes, C.C.| Lange, C.N.| de Jesus, T.A.

10.1007/s13762-024-06158-7

The potential contribution of riparian vegetation in non-point source pollution control during rainfall events in a tropical urban watershed

de Paiva, C.L.| Bega, J.M.M.| Zambrano, K.T.| Cunha, D.G.F.

10.1590/2318-0331.302520240123

Potential use of wood addition for restoring ecosystem metabolism and nutrient uptake in a subtropical river

Bega, J.M.M.| Saltarelli, W.A.| Furley, T.H.| dos Reis Oliveira, P.C.| Cunha, D.G.F.

10.1016/j.ecohyd.2025.100665

Progress of G20 Nations on the 6th Sustainable Development Goal Under the Circular Economy Perspective

Campoli, J.S.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1007/s13132-024-02475-x

Projected Hydrological Changes in the Sobradinho Basin in the 21st Century Based on SWAT/SUPER Simulations

Galvíncio, J.D.| Mendiando, E.M.| Montenegro, S.G.| de Miranda, R.Q.| Bressiani, D.| de Souza, W.M.| de Pimentel, R.M.M.| Costa, V.S.O.| de Moura, M.S.B.| Cuartas, L.A.| Costa, R.S.| Pereira, E.B.| da Silva, P.G.C.

10.26848/RBGF.V18.05.P2640-2656

Removing diclofenac, ranitidine, and simvastatin from a biologically-treated domestic sewage coupling the photo-Fenton process

da Silva, T.H.G.| Furtado, R.X.D.S.| Zaiat, M.| Azevedo, E.B.

10.1007/s43153-024-00496-2

Sustainable water treatment technologies for use in resource-poor environments

McGuigan, K.G.| Khan, W.| Dhodapkar, R.| Sabogal Paz, L.P.| Giannakis, S.| Fatta-Kassinos, D.

10.1016/j.jece.2024.113649

A Systematic Literature Review of Treatment Approaches with Sulfate-Reducing Bacteria for Acid Mine Drainage

Marques, J.P.| Rodrigues, V.G.S.

10.1007/s11270-025-07916-0



ODS 6-ÁGUA POTÁVEL E SANEAMENTO



A systematic review of the environmental impacts of the Fundão dam rupture in Mariana (Minas Gerais, Brazil)

Soares, Á.K.M.| Rodrigues, M.B.| Rodrigues, V.G.S.| Kasemodel, M.C.| Silva, V.C.G.

10.1007/s11356-025-36695-8

Toward a better understanding of curve number and initial abstraction ratio values from a large sample of watersheds perspective

Brandão, A.R.A.| Schwambach, D.| Ballarin, A.S.| Ramirez-Avila, J.J.| Vasconcelos Neto, J.G.| Oliveira, P.T.S.

10.1016/j.jhydrol.2025.132941

Toward effective river restoration in Brazil: a systematic review of current practices, regional disparities, and success metrics

Hordones, R.H.| Boëchat, I.G.| Cunha, D.G.F.| Brauns, M.| Gücker, B.

10.1111/rec.70041

Treatment of secondary effluent using dissolved air flotation on a pilot-scale: Assessing operating conditions

dos Santos, P.R.| Sacchi, G.D.| Daniel, L.A.| Reali, M.A.P.

10.1016/j.jwpe.2025.107033

Uneven shifts in flood and drought flows in a Brazilian water supply catchment

Mattos, T.S.| Ballarin, A.S.| Lucas, M.C.| Almagro, A.| Oliveira, P.T.S.

10.1016/j.ejrh.2025.102498

Waste Valorisation and Contribution to the Circular Economy: The Evaluation of Water Treatment Sludge as a Phosphorus Adsorption Material and its Potential for Agricultural Reuse

Kohatsu, M.Y.| do Carmo Calijuri, M.| de Paula, R.Z.| Arantes, C.C.| Lange, C.N.| Ribeiro, M.N.| da Silva Novais, K.| de Moraes Alves, J.| Urzedo, A.L.| de Jesus, T.A.

10.1007/s11270-024-07699-w

Wastewater is still a major problem: a comprehensive evaluation of N and P loads into water bodies of the most populous state in Brazil

Zambrano, K.T.| Bega, J.M.M.| Cunha, D.G.F.

10.1016/j.jenvman.2025.126440



ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Active vibration control of a flexible parallel manipulator 3RRR	Geronel, R.S. Corrêa de Oliveira, G. Rodrigues, G.K. da Silva, M.M.	10.1017/S0263574725000566
Advancing Circular Economy: G20 Nations' Path Towards 12th Sustainable Development Goal	Campoli, J.S. Kodama, T.K. Nagano, M.S. Burnquist, H.L.	10.1007/s43615-024-00415-0
Alloying multiple halide perovskites on the same sublattice in search of stability and target band gaps	Sabino, F.P. Xiong, J.-X. Zhang, X. Dalpian, G.M. Zunger, A.	10.1039/d5mh00540j
Anaerobic Digestion Model No. 1 applied to bioenergy generation from fruit and vegetable waste in Upflow Anaerobic Sludge Blanket reactors	Silva, T.P. Silva Júnior, F.D.C.G.D. Gehring, T.A. de Menezes, C.A. Almeida, P.D.S. Zaiat, M. dos Santos, A.B. Leitão, R.C.	10.1016/j.biortech.2025.132644
Application of Thermochromic and Self-cleaning Materials in Buildings: A Bibliometric Analysis	Hidalgo-Araujo, A.C. Salomão, R. Dornelles, K.A.	10.1007/978-981-97-8305-2_56
Assessment of aerobic-anoxic biotrickling filtration for the desulfurization of high-strength H ₂ S streams from sugarcane vinasse fermentation	Do Vale Borges, A. Zamariolli Damianovic, M.H.R. Torre, R.M.	10.1016/j.jhazmat.2025.137696
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
Biohydrogen production from wastewater-grown microalgae-bacteria consortia: Optimizing inoculum selection for enhanced yield	Silva, T.A. de Araujo, M.N. de Rezende, E.G.F. Saia, F.T. Magalhães, I.B. de Paula Pereira, A.S.A. Ferreira, J. Gregoracci, G.B. Tallarico Adorno, M.Á. Fuess, L.T. Zaiat, M. Calijuri, M.L.	10.1016/j.renene.2025.123079
Challenges in achieving partial nitrification: Simultaneous nitrification-denitrification as the dominant pathway in municipal wastewater treatment	Takeda, P.Y. Tavares Paula, C. Braz Carneiro, R. do Vale Borges, A. Cardoso Grangeiro, L. Rissato Zamariolli Damianovic, M.H.	10.1016/j.jece.2024.113649
Clean development mechanisms in Latin America: Efficiency analysis of energy-generating projects	Pacagnella Junior, A.C. de Moraes, G.H.S.M. da Silva, A.L. Putti, F.F. Bortoletto, W.W.	10.1002/ep.70023



ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Co-fermentation of sugar-alcohol industry waste to produce hydrogen and value-added metabolites

Dionizio, B.S.| Rabelo, C.A.B.S.| Rodrigues, C.V.| Camargo, F.P.| Silva, E.L.| de Souza, D.H.F.| Varesche, M.B.A.

10.1016/j.biteb.2025.102211

Design and characterization of a SiO₂-TiO₂ coating containing organic and inorganic thermochromic pigments and optimized with TiO₂-P25 for improved long-term performance in energy-efficient roofing

Hidalgo-Araujo, A.C.| Salomão, R.| Berardi, U.| Dornelles, K.A.

10.1016/j.solmat.2025.113655

Detailed Design of Lattice Tower for Low Speed Wind Turbines

Waterhouse, J.R.| Henrique Gasparetti, C.| Pires Quevedo, K.| Beppu de Souza, G.

10.1109/ACCESS.2025.3580660

Dynamic modelling of mono- and disaccharide fermentation in an anaerobic fixed-bed reactor

Couto, P.T.| Capson-Tojo, G.| Escudié, R.| Lima, D.M.F.| Moreira, W.K.| Ribeiro, R.| Trably, E.| Zaiat, M.| Steyer, J.-P.

10.1016/j.renene.2025.122534

Effect of mechanical strength on the hydrogen embrittlement susceptibility and fracture behavior of a modified AISI 4130 steel

Martiniano, G.A.| Leal, J.E.S.| da Silva Alvarenga, R.F.| Bose Filho, W.W.| Piza Paes, M.T.| Franco, S.D.

10.1016/j.ijhydene.2024.04.167

Energy Management System Based on S-Shaped Functions for Series Hybrid Vehicle Under a Fully Active Topology

Von Rondow Campos, M.| Silva, L.J.R.| Fagundes, T.A.| Neves, R.V.A.| Oliveira, V.A.| Machado, R.Q.

10.1109/TVT.2024.3498703

Evaluation of solar ultraviolet blocking by sunglasses and their compliance with recommended safety limits

Masili, M.| Duarte, F.O.| Ventura, L.

10.1007/s42600-024-00390-3

Evaluation of steel ladle refractories lining designs aiming energy savings using open-source finite element tools

Santos, J.A.| Santos, M.F.| Moreira, M.H.| Angélico, R.A.| Pandolfelli, V.C.

10.1111/ijac.14928

Experimental investigation on the impact of the asymmetrical heat exchange and operation modes on the thermal performance of a bored energy pile in unsaturated soil: A case study in Brazil

Formigari, R.C.| Tsuha, C.D.H.C.

10.1016/j.geothermics.2024.103201

Frequency-domain fuzzy-FxLMS algorithm for active sound profiling in hybrid powertrains in various speeds

Nasiri, M.| Loghmani, A.| Mosquera-Sánchez, J.A.| Keshmiri, M.

10.1177/10775463251338886



ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Hydrogen production from fermented sugarcane vinasse and its utilization by biosynthesis processes in a single-chambered microbial electrolysis cell

Anzola-Rojas, M.D.P.| Sánchez, F.E.| Fuess, L.T.| Pozzi, E.| Nolasco, M.A.| De Wever, H.| Pant, D.| Zaiat, M.

10.1016/j.ijhydene.2024.12.308

Hydrogen production in an anaerobic fixed-bed reactor for the processing of condensed water from the sugar-alcohol industry

Callado, N.H.| Zaiat, M.| Sakamoto, I.| Azevedo, F.P.F.

10.1590/S1413-415220240037

An Improved Methodology to Locate Faults in Onshore Wind Farm Collector Systems

Davi, M.| Júnior, A.| Grilo, C.| Cunha, T.| Lessa, L.| Oleskovicz, M.| Coury, D.

10.3390/en18030693

Low-Cost Embedded System Applications for Smart Cities

Herrera, V.A.S.| de Araújo, H.P.| Penteado, C.G.| Gazziro, M.| Carmo, J.P.

10.3390/bdcc9020019

Master-Slave Synchronization for Parameter Estimation of Photovoltaic Module Model

Santos, G.H.D.P.| Sager, B.| Shewarega, F.| Vennegeerts, H.| Villanueva, M.C.T.| Cari, E.P.T.

10.1007/s40313-025-01173-6

MFC-Based Propulsion System for Body/Caudal Fin Robotic Fish Locomotion: Experimental and Numerical Results

da Silva, M.M.| Barbosa, A.S.| Savio, T.L.| de Oliveira, L.P.R.

10.1007/s42417-025-01808-7

Microstructure and Out-of-Phase Thermomechanical Fatigue of Compacted Graphite Iron (CGI) 500 with High Si or Minor Addition of Cu-Sn

Santa Maria, F.H.| de Oliveira, M.F.| Cabezas, C.D.S.| Bon, D.G.| Oliveira, G.S.| Mattos, O.N.| Oliva, G.O.

10.1007/s40962-025-01628-1

Modeling of smart inverter functions executed by photovoltaic systems for power flow analysis

Sampaio, M.F.| Oliveira, C.G.R.| London, J.B.A.

10.1016/j.epsr.2025.111873

Multilayer Perceptron Artificial Neural Network-Based Solution for Interharmonics Diagnosis in Frequency Spectra

Santos, S.T.C.A.d.| Guazzelli, P.R.U.| Oliveira, G.H.M.d.| Monteiro, J.R.B.A.

10.1109/TIA.2025.3573983

A New Accurate and Robust Method Based on Deep Neural Networks for Fault Location in HVDC Systems

Merlin, V.L.| dos Santos, R.C.| Pavani, A.P.G.| Vieira, J.C.M.

10.1007/s40313-025-01165-6



ODS 7 - ENERGIAS RENOVÁVEIS E ACESSÍVEIS



Optimized Sigmoid-Based Complete Ensemble Empirical Mode Decomposition for Energy Management in Hybrid Electric Vehicles

Silva, L.J.R.| Campos, M.V.R.| Fagundes, T.A.| Zilli, B.M.| Neves, R.V.A.| Machado, R.Q.| de Oliveira, V.A.

10.1109/OJIES.2025.3559447

Optimizing biohydrogen yield in anaerobic co-digestion of swine manure and coffee waste: Valorization and perspectives

Lourenço, V.A.| Gomes, M.M.| Centurion, V.B.| Sakamoto, I.K.| Silva, E.L.| Varesche, M.B.A.

10.1016/j.ijhydene.2025.150246

The probabilistic mechanical-material modeling of complex non-homogeneous structures using the coupling of isogeometric boundary element method and reliability approach

Nardi, D.C.| Leonel, E.D.

10.1177/14644207231218166

Reinforcement Learning Solutions for Microgrid Control and Management: A Survey

Barbalho, P.I.N.| Moraes, A.L.| Lacerda, V.A.| Barra, P.H.A.| Fernandes, R.A.S.| Coury, D.V.

10.1109/ACCESS.2025.3546578

Response of a novel all-solid-state sodium-based-electrolyte battery to quasi-static and dynamic stimuli

Christoff, B.G.| Marques, D.| Maciel, M.M.| Ataabadi, P.| Carmo, J.| Braga, M.H.| Guedes, R.M.| Alves, M.| Tita, V.

10.1177/14644207241247732

State of the Art in Electric Batteries' State-of-Health (SoH) Estimation with Machine Learning: A Review

Sylvestrin, G.R.| Maciel, J.N.| Amorim, M.L.M.| Carmo, J.P.| Afonso, J.A.| Lopes, S.F.| Ando Junior, O.H.

10.3390/en18030746

Thermochromic materials for building Applications: Overview through a bibliometric analysis

Hidalgo-Araujo, A.C.| Salomão, R.| Berardi, U.| Dornelles, K.A.

10.1016/j.solener.2025.113491

Thermomechanical Analysis of Reinforced Concrete Beams Under Fire Situation: A Comparison Between Conventional Concrete and UHPC

Duarte, F.S.| Carrazedo, R.| Neto, J.M.

10.1007/s10694-024-01657-y

Ti3C2Tx MXene/alginate-based electrodes for supercapacitors

Fotius, J.A.A.| Facure, M.H.M.| Correa, D.S.| Carrilho, E.| da Silva Barud, H.| de Oliveira, H.P.

10.1557/s43578-025-01588-6

TiO2-P25 Enhanced Thermochromic Coatings for Energy Efficient Roofing: Evaluating Long-Term Performance through Accelerated Aging Tests

Hidalgo-Araujo, A.C.| Salomão, R.| Berardi, U.| Dornelles, K.A.

10.1016/j.buildenv.2025.113208



ODS7-ENERGIAS RENOVÁVEIS E ACESSÍVEIS



UAV Simulation Environment for Fault Detection in Wind Farm Electrical Distribution Systems

Soares, V.M.D.| De Almeida, L.M.| Carlos, A.P.F.| Inoue, R.S.| Grassi, V.| Terra, M.H.| Oleskovicz, M.

10.1109/ICUAS65942.2025.11007789

Unleashing the full potential of vinasse fermentation in sugarcane biorefineries

do Vale Borges, A.| Fuess, L.T.| Takeda, P.Y.| Rogeri, R.C.| Saia, F.T.| Gregoracci, G.B.| Rissato Zamariolli Damianovic, M.H.

10.1016/j.rser.2024.115096

Unlocking the anaerobic conversion of crop residues: Biological pretreatments and the role of sulfide pathway in lignin degradation

Franco Vieira, B.| Ramos-Muñoz, V.M.| Zahedi, S.| Abreu B. Silva Rabelo, C.| Zaiat, M.| G. Fermoso, F.| González-Arias, J.

10.1016/j.scitotenv.2025.178739



ODS 8 - TRABALHO DESCENTE E CRESCIMENTO ECONÔMICO



Advancing Circular Economy: G20 Nations' Path Towards 12th Sustainable Development Goal

Campoli, J.S.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1007/s43615-024-00415-0

Advancing the 15th SDG: G20 Nations' Progress in Protecting Life on Land Through Circular Economy Strategies

Campoli, J.S.| Nagano, M.S.| Kodama, T.K.| Burnquist, H.L.

10.1002/bsd2.70141

Exploring ESG Indicators and the Sustainable Development Goals: A Fuzzy Multi-Criteria Approach to Cause-and-Effect Analysis

da Cunha, Í.G.F.| Policarpo, R.V.S.| de Oliveira, P.C.S.| Zanon, L.G.| do Nascimento Rebelatto, D.A.

10.1002/bsd2.70155

Inventory of Climbing Sites in São Paulo State, Brazil: Integrating Geodiversity Data for Sustainable Adventure Tourism

Monticelli, J.P.| Garcia, M.D.G.M.| Frugis, G.L.| Ribeiro, R.P.

10.3390/su17093900

Justice or just plans? Reviewing the energy transition strategy of Brazil's Ceará state

Mendes, E.D.| Sampaio, R.J.S.| Collaço, F.M.D.A.

10.1016/j.erss.2024.103865

Metal pollution reconstruction in São Paulo City (Southeast Brazil) over the twentieth century by paleolimnological approach

de Jesus, T.A.| Costa-Böddeker, S.| Fontana, L.| Mozeto, A.A.| do Carmo Calijuri, M.| Albuquerque, A.L.S.| de Campos Bícudo, D.

10.1007/s11356-025-35998-0

Progress of G20 Nations on the 6th Sustainable Development Goal Under the Circular Economy Perspective

Campoli, J.S.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1007/s13132-024-02475-x

Soil Moisture-Drought Nexus across Brazil: Identifying Current Issues and Future Perspectives

Bertotto, L.E.| De Medeiros Costa, H.K.| Alves Vasconcelos, P.E.| De Araújo, I.L.| Wendland, E.C.

10.1061/JWRMD5.WRENG-6575

Strengthening short food supply chains: Prioritizing obstacles and opportunities with PROMETHEE, Fuzzy DEMATEL, and Fuzzy TOPSIS class

Pinto, G.D.| Cassânego, V.M.| Zanon, L.G.| Ferraz, D.| Rebelatto, D.A.D.N.

10.1016/j.ijpe.2025.109732

Sustainable Development: Prioritizing Attributes and Validating Factors for the Success of Green Startups in Brazilian and German Entrepreneurial Ecosystems

Oliveira, A.Y.| Mendes, J.A.J.| Zanon, L.G.| Gerolamo, M.C.| Zuin Zeidler, V.G.

10.1002/bsd2.70083

Workload considerations in simultaneous piloting of multiple RPA on agricultural spraying

Gonçalves, M.C.| Bidinotto, J.H.

10.1016/j.buildenv.2025.113208



ODS 9- INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Advancing Circular Economy: G20 Nations' Path Towards 12th Sustainable Development Goal

Campoli, J.S.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1007/s43615-024-00415-0

Alternative Trajectories for the Optimization of Trochoidal Milling in Hardened Steel

Trindade, K.K.A.| Lima, J.D.S.| Montoya, M.| Rodrigues, A.R.|
Alves, K.G.B.| da Silva, F.J.

10.1590/1980-5373-MR-2025-0079

Analysis of a novel 3D-printed mechanical metamaterial with tension-induced undulation: Experimental and numerical investigations

dos Santos, W.F.| Rodrigues, A.S.L.| Rodrigues Lopes, I.A.|
Andrade Pires, F.M.| Proença, S.P.B.| Silveira, Z.C.

10.1016/j.ijsolstr.2025.113402

Analysis of process parameters in the fabrication of thin-wall Inconel 718 via laser-directed energy deposition

Momeni, S.| Coelho, R.T.| Bruno, D.M.| Jasinevicius, R.G.

10.1007/s00170-025-15308-1

As-built microstructure and mechanical behavior of Inconel 718 processed via directed energy deposition with laser beam

Cavalcante, T.R.F.| Bon, D.G.| Pascoal, C.V.P.| Mariani, F.E.| Faria, G.|
Coelho, R.T.| Muñoz, J.A.| Muñoz, J.C.| Cabrera, J.M.| Avila, J.A.

10.1007/s40964-025-01054-z

Assessing critical fracture energy in mode I for bonded composite joints: A numerical-experimental approach with uncertainty analysis

Beck, R.; Silva, J. A. P.; Silva, L. F. M.; Tita, V.; Medeiros, R.

10.1177/14644207241229601

Assessment of risk reduction strategies for terrorist attacks on structures

Stewart, M. G.; Thöns, S.; Beck, A. T.

10.1016/j.strusafe.2023.102381

Assessment of the bonding quality of *Toona ciliata* (Australian cedar) lamellas for glulam beams produced with different adhesives and surface finishes

Oliveira, K. A. D.; Jardim, P. I. L. G.; Oliveira, C. A. B.; Rodrigues, E.
F. C.; Christoforo, A. L.; Molina, J. C.

10.1016/j.ijadhadh.2024.103887

Audit framework for control Robotic Process Automation projects

Patrício, L.; Silva, J.; Costa, C.; Varela, L.; Silveira, Z.; Cruz-
Cunha, M. M.

10.1016/j.procs.2025.02.168

Characterization and analysis of printing challenges with high filled alumina filament in low-cost extrusion-based additive manufacturing

Santana, L.; Nagata, E. Y.; Barra, G. M. O.; Netto, A. C. S.; Pallone,
E. M. J.; Ambrósio, C. E.; Castro Silveira, Z.

10.1002/pc.29581



ODS 9- INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Characterization of Limeira intrusion stones for aggregate use in engineering applications

Ribeiro, R. P.; Neto, J. A. C.; Corrêa, F. A.; Monticelli, J. P.; Ribeiro, J. C.; Monteiro, S. N.; Azevedo, A. R. G.

10.1038/s41598-025-91292-6

Citrus wastes as sustainable materials for active and intelligent food packaging: Current advances

Bertolo, M. R. V.; Pereira, T. S.; Santos, F. V.; Facure, M. H. M.; Santos, F.; Teodoro, K. B. R.; Mercante, L. A.; Correa, D. S.

10.1111/1541-4337.70144

Co-fermentation of sugar-alcohol industry waste to produce hydrogen and value-added metabolites

Dionizio, B. S.; Rabelo, C. A. B. S.; Rodrigues, C. V.; Camargo, F. P.; Silva, E. L.; Souza, D. H. F.; Varesche, M. B. A.

10.1016/j.biteb.2025.102211

Design, Construction, and Validation of a VAT Top-Down Printer for Ceramic Additive Manufacturing

Rezende, G. R.; Fortulan, C. A.

10.1590/CWBA5731

Designing a hybrid organization structure based on competences: the importance of the organizational structure

Bagni, G.; Marçola, J. A.; Escrivão Filho, E.; Nagano, M. S.; Philippsen, L.

10.1108/BPMJ-02-2024-0098

Detailed Design of Lattice Tower for Low Speed Wind Turbines

Waterhouse, J. R.; Henrique Gasparetti, C.; Pires Quevedo, K.; Beppu Souza, G.

10.1109/ACCESS.2025.3580660

Directed Energy Deposition-Laser Beam of Semi-Austenitic Precipitation-Hardening Stainless Steel

Barbosa, A. L.; Mariani, F. E.; Pereira, F. M.; Cintho, O. M.; Coelho, R. T.; Gargarella, P.; Zilnyk, K.

10.3390/jmmp9040114

Discrete event simulation-based digital twin: an approach focused on tactical, strategic, and operational decisions

Battissacco, B. C.; Azzolini Júnior, W.; Santos, C. H.; Romano, A. L.

10.1080/17477778.2025.2531045

Drop laden flows

Rodriguez, O. M. H.; Angeli, P.; Legendre, D.; Climent, E.; Soldati, A.

10.1016/j.ijmultiphaseflow.2025.105284

Effect of Low Solvent Concentration on the Rheological Behavior of Zirconia Ceramic Suspension and the Mechanical Properties of Sintered Parts

Rezende, G. R.; Camargo, Í. L.; Fortulan, C. A.

10.1590/1980-5373-MR-2024-0594



ODS 9- INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Evaluating the disclosure of impacts, risks, and opportunities in sustainability reports published by Brazilian companies: a multicriteria decision analysis

Silva, P. H. D.; Sigahi, T. F. A. C.; Rampasso, I. S.; Zanon, L. G.; Moraes, G. H. S. M. D.; Filho, W. L.; Anholon, R.

10.1080/23311975.2025.2482850

Evaluation of solar ultraviolet blocking by sunglasses and their compliance with recommended safety limits

Masili, M.; Duarte, F. O.; Ventura, L.

10.1007/s42600-024-00390-3

Evaluation of steel ladle refractories lining designs aiming energy savings using open-source finite element tools

Santos, J. A.; Santos, M. F.; Moreira, M. H.; Angélico, R. A.; Pandolfelli, V. C.

10.1111/ijac.14928

Evaluation of the accuracy of digital indirect bonding vs. conventional systems: a randomized clinical trial

Soares Ueno, E. P.; Carvalho, T. C. A. D. S. G.; Kanashiro, L. K.; Ursi, W.; Chilvarquer, I.; Neto, J. R.; Paiva, J. B.

10.2319/030624-179.1

Evolution of variable angle tow composite structures: Data analysis and relevance of the theme

Maciel, M. M. Á. D.; Amico, S.; Guedes, R. M.; Tita, V.

10.1177/14644207241240048

Exploring ESG Indicators and the Sustainable Development Goals: A Fuzzy Multi-Criteria Approach to Cause-and-Effect Analysis

Cunha, Í. G. F.; Policarpo, R. V. S.; Oliveira, P. C. S.; Zanon, L. G.; Nascimento Rebelatto, D. A.

10.1002/bsd2.70155

Formulation and characterization of thermo-responsive blends for 4D printing

Rodrigues, A. D. S. L.; Chinelatto, M. A.; Chinellato, A. C.; Silveira, Z. D. C.

10.1007/s40964-025-01064-x

Framework for Integrating Requirements Engineering and DevOps Practices in Robotic Process Automation with a Focus on Optimizing Human-Computer Interaction

Patrício, L.; Varela, L.; Silveira, Z.

10.3390/app15073485

A Framework for Integrating Robotic Process Automation with Artificial Intelligence Applied to Industry 5.0

Patrício, L.; Varela, L.; Silveira, Z.; Felgueiras, C.; Pereira, F.

10.3390/app15137402

Glulam bonding quality of chromated copper arsenate treatment applied to Pinus elliottii wood and three structural adhesives

Bianchi, N. A.; Moraes, M. H. M.; Oliveira, K. A.; Oliveira, C. A. B.; Molina, J. C.; Christoforo, A. L.

10.22320/s0718221x/2025.21



ODS 9- INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Green manufacturing impact on fatigue strength: A comparative analysis of heat-treated AISI 420 and plastically deformed AISI 301LN stainless steels

Pinheiro Santos, M.; Siqueira Corrêa, E. C.; Castro, G. M.; Bose Filho, W. W.; Magnabosco, R.; Lopes, W.; Silva Labiapari, W.

10.1016/j.jmrt.2025.03.087

Hydrogen production in an anaerobic fixed-bed reactor for the processing of condensed water from the sugar-alcohol industry

Callado, N. H.; Zaiat, M.; Sakamoto, I.; Azevedo, F. P. F.

10.1590/S1413-415220240037

Hydrological heritage: a historical exploration of human-water dynamics in northeast Brazil

Pereira, B. S.; Uchôa, J. G. S. M.; Freitas, G. S.; Meira Neto, A. A.; Anache, J. A. A.; Wendland, E. C.; Mendiõdo, E. M.; Medeiros, P. H. A.

10.1080/02626667.2024.2446272

Identifying potential routes and airports in Brazil: An integration of the route selection and fleet assignment problems

Nagano, M. S.; Jesus, T. D.; Rossi, F. L.

10.1016/j.cstp.2025.101423

Impact performance of egg-box core sandwich panels made from sisal fibers and castor-oil-based polymer

Santos, J. C.; Silva, R. J.; Christoforo, A. L.; Freire, R. T. S.; Tarpani, J. R.; Scarpa, F.; Panzera, T. H.

10.1002/pc.29123

Implementation of a Sustainable Framework for Process Optimization Through the Integration of Robotic Process Automation and Big Data in the Evolution of Industry 4.0

Patrício, L.; Varela, L.; Silveira, Z.

10.3390/pr13020536

INTEGRATION OF SIMULATION AND HIERARCHICAL APPROACH TO SUPPORT LEAN IMPLEMENTATION

Azzolini Junior, W.; Santos, C. H.; Romano, A. L.; Salles, H. O.; Palma, J. M.; Augusto Filho, R. T.

10.2507/IJSIMM24-1-719

Laser-clad Al-Matrix coatings reinforced with icosahedral quasicrystals obtained using Al-Cu-Fe-Cr decagonal quasicrystalline powders on Al substrates

Rodrigues, A. V.; Ramirez, A. F.; Fogagnolo, J. B.; Wolf, W.

10.1007/s10853-025-10815-8

Lean Leadership 4.0 framework: a case study in an automotive company

Silva, I. B.; Capla, R. L.; Shiki, S. B.; Barbosa, G. F.; Ordóñez, R. E. C.

10.1108/BIJ-08-2024-0709

Life Cycle Assessment and Circularity Indicators of Earth-Retaining Walls and Mechanically Stabilized Earth

Araújo Junior, L. P. V. D.; Bueno, C.; Silva, J. L. D.

10.3390/su17093769



ODS 9-INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



Literature review on the implementation of Robotic Process Automation in healthcare and its social influence

Patrício, L.; Costa, C.; Varela, L.; Silveira, Z.; Cruz-Cunha, M. M.

10.1016/j.procs.2025.02.202

Manufacturing and Characterization of High-Performance Fiber-Reinforced Concrete with Locally Available Materials

Araújo, D. D. L.; Silva, E. B.; Cândido, E. A. D. S.; El Debs, M. K.

10.1007/s40999-025-01105-0

Mechanical and corrosion behaviour of 316L stainless steel processed by wire arc additive manufacturing (WAAM)

Brito Neto, F. M.; Ferreira, M. O. A.; Santos, S. A. C.; Pereira, J. N.; Meza, D. L. C.; Ahmed, W.; Souza Nossa, T.; Moreto, J. A.; Pinto, H. C.; Arantes, V. L.

10.1007/s40964-025-00986-w

MFC-Based Propulsion System for Body/Caudal Fin Robotic Fish Locomotion: Experimental and Numerical Results

Silva, M. M.; Barbosa, A. S.; Savio, T. L.; Oliveira, L. P. R.

10.1007/s42417-025-01808-7

Microstructural Characterization of Martensitic Stainless Steel Blades Manufactured by Directed Energy Deposition (DED)

Ferreira, C. C. D. A.; Siqueira, R. H. M. D.; Nuñez, J. G.; Mariani, F. E.; Coelho, R. T.; Chen, D.; Lima, M. S. F. D.

10.3390/met15060612

Microstructure and mechanical properties of the 316L stainless steel parts fabricated by DED-Arc with different deposition strategies

Brito Neto, F. M.; Pereira, J. N.; Nossa, T. D. S.; Meza, D. L. C.; Ahmed, W.; Moreto, J. A.; Arantes, V. L.; Pinto, H. C.

10.1007/s40964-025-00991-z

Microstructure and Out-of-Phase Thermomechanical Fatigue of Compacted Graphite Iron (CGI) 500 with High Si or Minor Addition of Cu-Sn

Santa Maria, F. H.; Oliveira, M. F.; Cabezas, C. D. S.; Bon, D. G.; Oliveira, G. S.; Mattos, O. N.; Oliva, G. O.

10.1007/s40962-025-01628-1

Phosphorus adsorption of a residue from the pulp and paper industry (grits): contributions to tertiary wastewater treatment

Kohatsu, M. Y.; Carmo Calijuri, M.; Paula, R. Z.; Arantes, C. C.; Lange, C. N.; Jesus, T. A.

10.1007/s13762-024-06158-7

Preliminary Experimental Behavior of Bio-Epoxy Polymer Impregnation on Curaua Fibers Against Glass Fibers

Costa, C. A. F.; Chinelatto, M. A.; Ortenzi, A.

10.1002/pc.70001

Proposal for a Sustainable Model for Integrating Robotic Process Automation and Machine Learning in Failure Prediction and Operational Efficiency in Predictive Maintenance

Patrício, L.; Varela, L.; Silveira, Z.

10.3390/app15020854

Radial compression of thin-walled variable-angle tow filament-wound composite cylinders, Part I: Manufacture, experimental, and computational analyses in the linear-elastic regime

Souza, G. S. C.; Santos, A. L.; Maciel, M. M. Á. D.; Guedes, R. M.; Viriato, N.; Amico, S. C.; Tita, V.

10.1016/j.compstruct.2025.119178



ODS 9-INDÚSTRIA, INOVAÇÃO E INFRAESTRUTURA



A review of leaching testing methods and identification of key pollutants in leachate from construction and demolition waste

Andrade, J. F. C.; Córdoba, R. E.; Schalch, V.

10.1007/s13762-025-06474-6

Size effects in 3D-printed polymeric lattices under three-point bending: Manufacturing, testing, and modelling

Santos, W. F.; Rodrigues, A. S. L.; Rodrigues Lopes, I. A.; Andrade Pires, F. M.; Proença, S. P. B.; Silveira, Z. C.

10.1016/j.euromechsol.2025.105728

Special Issue: New advances in manufacturing, modelling, and testing of composite materials

Tita, V.; Silva, L. F. M.; Ferreira, A.

10.1177/14644207251336614

State of the Art and Future Directions of Healthcare 4.0: A Systematic Literature Review

Santos, C. H. d.; Romano, A. L.; Junior, W. A.; César, F. I. G.; Ferraço, F.; Rozo-Rojas, I.

10.1109/ACCESS.2025.3575054

Study of the wear behavior of AISI 17-4PH stainless steel deposited under L-DED process

Pereira, J. I.; Tressia, G.; Machado, P. C.; Nunez, J. G.; Coelho, R. T.

10.1007/s00170-025-15867-3

Thermomechanical Analysis of Reinforced Concrete Beams Under Fire Situation: A Comparison Between Conventional Concrete and UHPC

Duarte, F. S.; Carrazedo, R.; Neto, J. M.

10.1007/s10694-024-01657-y

Trends in the global research on the relationship between cleaner production and industry 4.0: a bibliometric literature review

Sousa, T. B.; Cantorani, J. R. H.; Ramalho Oliveira, M.; Costa Melo, I.; Oliveira Neto, G. C.; Müller Guerrini, F.; Philippsen Jr, L.

10.1080/21681015.2024.2405100

Uneven shifts in flood and drought flows in a Brazilian water supply catchment

Mattos, T. S.; Ballarin, A. S.; Lucas, M. C.; Almagro, A.; Oliveira, P. T. S.

10.1016/j.ejrh.2025.102498

Unveiling the Path to Success in ERP Systems Implementation in Brazilian Companies: A Prioritisation Analysis Through the ISM-MICMAC Model

Romano, A. L.; Arantes, A.; Ferreira, L. M.; Júnior, W. A.

10.1007/978-3-031-72494-7_34

Wastewater is still a major problem: a comprehensive evaluation of N and P loads into water bodies of the most populous state in Brazil

Zambrano, K. T.; Bega, J. M. M.; Cunha, D. G. F.

10.1016/j.jenvman.2025.126440

Workload considerations in simultaneous piloting of multiple RPA on agricultural spraying

Gonçalves, M. C.; Bidinotto, J. H.

10.1007/s13272-025-00838-x



ODS 10 - REDUÇÃO DAS DESIGUALDADES



Gender equality in education: An analysis of entrepreneurial behavior in technological colleges in a developing country

Moraes, M. A.; Moraes, G. H. S. M.; Rampasso, I. S.; Pacagnella Júnior, A. C.; Siqueira Camargo Vasconcelos, D.; Anholon, R.

10.1080/14703297.2024.2357710

Justice or just plans? Reviewing the energy transition strategy of Brazil's Ceará state

Mendes, E. D.; Sampaio, R. J. S.; Collaço, F. M. D. A.

10.1016/j.erss.2024.103865

Progress of G20 Nations on the 6th Sustainable Development Goal Under the Circular Economy Perspective

Campoli, J. S.; Kodama, T. K.; Nagano, M. S.; Burnquist, H. L.

10.1007/s13132-024-02475-x



ODS 11 - CIDADES E COMUNIDADES SUSTENTÁVEIS



Achieving stable nitrogen removal through mainstream partial nitrification, anammox and denitrification (SNAD) with a hybrid biofilm-granular reactor

Takeda, P. Y.; Paula, C. T.; Dias, M. E. S.; Borges, A. D. V.;
Damianovic, M. H. R. Z.

10.1016/j.chemosphere.2025.144105

Addressing climate change in Berlin's local land-use plans through strategic environmental assessment and knowledge brokering

Rodrigues, T.; Geißler, G.; Montaña, M.

10.1016/j.eiar.2024.107651

Bioretention as a control to urban drainage system with an ecohydrological base: GIS as a tool on decision making

Rosa, A.; Prokopiuk, M.; Macedo, M. B.; Lago, C. A. F.; Sample, D.;
Souza, V. C.; Mendonça, M. E.

10.1080/23789689.2024.2403852

Challenges and prospects for sorting and disposing of household solid waste: a case study of a recycling cooperative in Minas Gerais, Brazil

Carvalho, M. V.; Rodrigues, E. F.; Schalch, V.; Mello Innocentini,
M. D.; Simão, L.

10.5585/2025.26076

Challenges in achieving partial nitrification: Simultaneous nitrification-denitrification as the dominant pathway in municipal wastewater treatment

Takeda, P. Y.; Tavares Paula, C.; Braz Carneiro, R.; Vale Borges, A.;
Cardoso Grangeiro, L.; Rissato Zamariolli Damianovic, M. H.

10.1016/j.jece.2025.115839

Design and characterization of a SiO₂-TiO₂ coating containing organic and inorganic thermochromic pigments and optimized with TiO₂-P25 for improved long-term performance in energy-efficient roofing

Hidalgo-Araujo, A. C.; Salomão, R.; Berardi, U.; Dornelles, K. A.

10.1016/j.solmat.2025.113655

Effects of Biochar on Arsenic-Contaminated Soil: Chemical Fractionation, Vegetation Growth, and Oral Bioaccessibility

Lima, J. Z.; Rodrigues, V. G. S.

10.1007/s00267-024-02067-0

Effects of biochar on soil contaminated by metals and metalloids from slag disposal of an old environmental liability in Ribeira Valley, Brazil

Lima, J. Z.; Rodrigues, V. G. S.

10.1016/j.jenvman.2024.123782

Enhancing the estimation of freeway level-of-service thresholds with travelers' perceptions

Piva, F. J.; Washburn, S. S.; Setti, J. R.

10.1016/j.tra.2025.104568

Ensuring reliable water level measurement for flooding: A redundancy-based approach with pressure transducer and computer vision

Matos, S. N.; Rocha, A. L. M.; Domingues Filho, G. M.; Ranieri, C.
M.; Garcia, R. D.; Faria, A. C. D. O.; Medina, M. M. G.; Ueyama, J.

10.1177/01423312241285952

Erosion processes and gravitational mass movements on Trindade Island, Brazil (South Atlantic Ocean)

Santos, F. A.; Zuquette, L. V.; Angulo, R. J.; Souza, M. C.;
Talamini, A. A.; Barão, L. M.; Daufenbach, H. F.; Garcia, M. H.

10.1016/j.geomorph.2024.109516



ODS 11 - CIDADES E COMUNIDADES SUSTENTÁVEIS



Exploring the impact of rainfall temporal distribution and critical durations on flood hazard modeling

Gomes, M. N.; Jalihal, V.; Castro, M.; Mendiando, E. M.

10.1007/s11069-025-07186-3

Flood mapping based on machine learning: a lexicometric analysis

Gallindo, I. O.; Munaro, A. C. J.; Anache, J. A. A.; Vasconcelos, A. M.

10.1590/2318-0331.302520240020

Impact of carbonation on reinforced concrete structures, considering the increase of CO₂ due to climate change in Brazil

Teodoro, C. P.; Carrazedo, R.

10.1590/s1983-41952025000800014

Low-Cost Embedded System Applications for Smart Cities

Herrera, V. A. S.; Araújo, H. P.; Penteado, C. G.; Gazziro, M.; Carmo, J. P.

10.3390/bdcc9020019

Metal pollution reconstruction in São Paulo City (Southeast Brazil) over the twentieth century by paleolimnological approach

Jesus, T. A.; Costa-Böddeker, S.; Fontana, L.; Mozeto, A. A.; Carmo Calijuri, M.; Albuquerque, A. L. S.; Campos Bicudo, D.

10.1007/s11356-025-35998-0

Socially exclusive patterns in the availability and number of bus stop shelters

Marques, S. D. F.

10.1016/j.jtrangeo.2025.104267

The potential contribution of riparian vegetation in non-point source pollution control during rainfall events in a tropical urban watershed

Paiva, C. L.; Bega, J. M. M.; Zambrano, K. T.; Cunha, D. G. F.

10.1590/2318-0331.302520240123

TiO₂-P25 Enhanced Thermochromic Coatings for Energy Efficient Roofing: Evaluating Long-Term Performance through Accelerated Aging Tests

Hidalgo-Araujo, A. C.; Salomão, R.; Berardi, U.; Dornelles, K. A.

10.1016/j.buildenv.2025.113208

Toward a better understanding of curve number and initial abstraction ratio values from a large sample of watersheds perspective

Brandão, A. R. A.; Schwamback, D.; Ballarin, A. S.; Ramirez-Avila, J. J.; Vasconcelos Neto, J. G.; Oliveira, P. T. S.

10.1016/j.jhydrol.2025.132941

Toward effective river restoration in Brazil: a systematic review of current practices, regional disparities, and success metrics

Hordones, R. H.; Boëchat, I. G.; Cunha, D. G. F.; Brauns, M.; Gücker, B.

10.1111/rec.70041

Treatment of secondary effluent using dissolved air flotation on a pilot-scale: Assessing operating conditions

Santos, P. R.; Sacchi, G. D.; Daniel, L. A.; Reali, M. A. P.

10.1016/j.jwpe.2025.107033

Wastewater is still a major problem: a comprehensive evaluation of N and P loads into water bodies of the most populous state in Brazil

Zambrano, K. T.; Bega, J. M. M.; Cunha, D. G. F.

10.1016/j.jenvman.2025.126440

ODS 12- CONSUMO E PRODUÇÃO RESPONSÁVEIS

Advancing Circular Economy: G20 Nations' Path Towards 12th Sustainable Development Goal

Campoli, J. S.; Kodama, T. K.; Nagano, M. S.; Burnquist, H. L.

10.1007/s43615-024-00415-0

Biochar–soil–plant interfaces: a systematic review of the crop performance in tropical climate

Lima, J. Z.; Penha Simon, C.

10.1007/s13762-024-05854-8

Biohydrogen production from wastewater-grown microalgae–bacteria consortia: Optimizing inoculum selection for enhanced yield

Silva, T. A.; Araujo, M. N.; Rezende, E. G. F.; Saia, F. T.; Magalhães, I. B.; Paula Pereira, A. S. A.; Ferreira, J.; Gregoracci, G. B.; Tallarico Adorno, M. Â.; Fuess, L. T.; Zaiat, M.; Calijuri, M. L.

10.1016/j.renene.2025.123079

Challenges and prospects for sorting and disposing of household solid waste: a case study of a recycling cooperative in Minas Gerais, Brazil

Carvalho, M. V.; Rodrigues, E. F.; Schalch, V.; Mello Innocentini, M. D.; Simão, L.

10.5585/2025.26076

Citrus wastes as sustainable materials for active and intelligent food packaging: Current advances

Bertolo, M. R. V.; Pereira, T. S.; Santos, F. V.; Facure, M. H. M.; Santos, F.; Teodoro, K. B. R.; Mercante, L. A.; Correa, D. S.

10.1111/1541-4337.70144

Clean development mechanisms in Latin America: Efficiency analysis of energy-generating projects

Pacagnella Junior, A. C.; Moraes, G. H. S. M.; Silva, A. L.; Putti, F. F.; Bortoletto, W. W.

10.1002/ep.70023

Co-fermentation of sugar–alcohol industry waste to produce hydrogen and value-added metabolites

Dionizio, B. S.; Rabelo, C. A. B. S.; Rodrigues, C. V.; Camargo, F. P.; Silva, E. L.; Souza, D. H. F.; Varesche, M. B. A.

10.1016/j.biteb.2025.102211

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Lima, J. Z.; Rodrigues, V. G. S.

10.1016/j.jenvman.2024.123782

Evaluating the disclosure of impacts, risks, and opportunities in sustainability reports published by Brazilian companies: a multicriteria decision analysis

Silva, P. H. D.; Sigahi, T. F. A. C.; Rampasso, I. S.; Zanon, L. G.; Moraes, G. H. S. M. D.; Filho, W. L.; Anholon, R.

10.1080/23311975.2025.2482850

ODS 12- CONSUMO E PRODUÇÃO RESPONSÁVEIS

Evaluation of solar ultraviolet blocking by sunglasses and their compliance with recommended safety limits

Masili, M.; Duarte, F. O.; Ventura, L.

10.1007/s42600-024-00390-3

Evaluation of steel ladle refractories lining designs aiming energy savings using open-source finite element tools

Santos, J. A.; Santos, M. F.; Moreira, M. H.; Angélico, R. A.; Pandolfelli, V. C.

10.1111/ijac.14928

Exploring ESG Indicators and the Sustainable Development Goals: A Fuzzy Multi-Criteria Approach to Cause-and-Effect Analysis

Cunha, Í. G. F.; Policarpo, R. V. S.; Oliveira, P. C. S.; Zanon, L. G.; Nascimento Rebelatto, D. A.

10.1002/bsd2.70155

Exploring the application of environmental impact assessment to tourism and recreation in protected areas: a systematic literature review

Pegler, G. F.; Lemos, C. C.; Ranieri, V. E. L.

10.1007/s10668-024-04532-6

Green manufacturing impact on fatigue strength: A comparative analysis of heat-treated AISI 420 and plastically deformed AISI 301LN stainless steels

Pinheiro Santos, M.; Siqueira Corrêa, E. C.; Castro, G. M.; Bose Filho, W. W.; Magnabosco, R.; Lopes, W.; Silva Labiapari, W.

10.1016/j.jmrt.2025.03.087

Implementation of a Sustainable Framework for Process Optimization Through the Integration of Robotic Process Automation and Big Data in the Evolution of Industry 4.0

Patrício, L.; Varela, L.; Silveira, Z.

10.3390/pr13020536

Inventory of Climbing Sites in São Paulo State, Brazil: Integrating Geodiversity Data for Sustainable Adventure Tourism

Monticelli, J. P.; Garcia, M. D. G. M.; Frugis, G. L.; Ribeiro, R. P.

10.3390/su17093900

Life Cycle Assessment and Circularity Indicators of Earth-Retaining Walls and Mechanically Stabilized Earth

Araújo Junior, L. P. V. D.; Bueno, C.; Silva, J. L. D.

10.3390/su17093769

Microstructure and Out-of-Phase Thermomechanical Fatigue of Compacted Graphite Iron (CGI) 500 with High Si or Minor Addition of Cu-Sn

Santa Maria, F. H.; Oliveira, M. F.; Cabezas, C. D. S.; Bon, D. G.; Oliveira, G. S.; Mattos, O. N.; Oliva, G. O.

10.1007/s40962-025-01628-1

Optimizing biohydrogen yield in anaerobic co-digestion of swine manure and coffee waste: Valorization and perspectives

Lourenço, V. A.; Gomes, M. M.; Centurion, V. B.; Sakamoto, I. K.; Silva, E. L.; Varesche, M. B. A.

10.1016/j.ijhydene.2025.150246

ODS 12- CONSUMO E PRODUÇÃO RESPONSÁVEIS

Pathways to circular nutrient ecosystems: Strategic roadmaps addressing sustainability drivers and barriers in Australia

Ometto, A. R.; Koskue, V.; Cerdán, J. M. A.; Melo Duarte Borges, T.; Roiko, A.; Iftekhar, S.; Cordell, D.; Roods, J.; Shon, H. K.; Freguía, S.; Oliveira, M. G.; Vasconcelos Gomes, L. A.; Evans, S.; Beal, C.

10.1016/j.spc.2025.04.017

Phosphorus adsorption of a residue from the pulp and paper industry (grits): contributions to tertiary wastewater treatment

Kohatsu, M. Y.; Carmo Calijuri, M.; Paula, R. Z.; Arantes, C. C.; Lange, C. N.; Jesus, T. A.

10.1007/s13762-024-06158-7

A review of leaching testing methods and identification of key pollutants in leachate from construction and demolition waste

Andrade, J. F. C.; Córdoba, R. E.; Schalch, V.

10.1007/s13762-025-06474-6

Soil Moisture-Drought Nexus across Brazil: Identifying Current Issues and Future Perspectives

Bertotto, L. E.; Medeiros Costa, H. K.; Alves Vasconcelos, P. E.; Araújo, I. L.; Wendland, E. C.

10.1061/JWRMD5.WRENG-6576

Strengthening short food supply chains: Prioritizing obstacles and opportunities with PROMETHEE, Fuzzy DEMATEL, and Fuzzy TOPSIS class

Pinto, G. D.; Cassânego, V. M.; Zanon, L. G.; Ferraz, D.; Rebelatto, D. A. D. N.

10.1016/j.ijpe.2025.109732

Thermomechanical Analysis of Reinforced Concrete Beams Under Fire Situation: A Comparison Between Conventional Concrete and UHPC

Duarte, F. S.; Carrazedo, R.; Neto, J. M.

10.1007/s10694-024-01657-y

TiO₂-P25 Enhanced Thermochromic Coatings for Energy Efficient Roofing: Evaluating Long-Term Performance through Accelerated Aging Tests

Hidalgo-Araujo, A. C.; Salomão, R.; Berardi, U.; Dornelles, K. A.

10.1016/j.buildenv.2025.113208

Trends in the global research on the relationship between cleaner production and industry 4.0: a bibliometric literature review

Sousa, T. B.; Cantorani, J. R. H.; Ramalho Oliveira, M.; Melo, I.; Oliveira Neto, G. C.; Müller Guerrini, F.; Philippsen Jr, L.

10.1080/21681015.2024.2405100



ODS 13-AÇÃO CONTRA A MUDANÇA GLOBAL DO CLIMA



Addressing climate change in Berlin's local land-use plans through strategic environmental assessment and knowledge brokering

Rodrigues, T.; Geißler, G.; Montaña, M.

10.1016/j.eiar.2024.107651

Advancing Circular Economy: G20 Nations' Path Towards 12th Sustainable Development Goal

Campoli, J. S.; Kodama, T. K.; Nagano, M. S.; Burnquist, H. L.

10.1007/s43615-024-00415-0

Application of Thermochromic and Self-cleaning Materials in Buildings: A Bibliometric Analysis

Hidalgo-Araujo, A. C.; Salomão, R.; Dornelles, K. A.

10.1007/978-981-97-8305-2_56

Assessing future changes in hydroclimatic processes in the Metropolitan Region of Belo Horizonte, Brazil, with the expanded Bluecat framework

Santos, L. R.; Barbosa, A. D. G.; Leite, C. C. O.; Silva, G. M. E.; Mendiõdo, E. M.; Costa, V. A. F.

10.3389/frwa.2025.1541052

Clean development mechanisms in Latin America: Efficiency analysis of energy-generating projects

Pacagnella Junior, A. C.; Moraes, G. H. S. M.; Silva, A. L.; Putti, F. F.; Bortoletto, W. W.

10.1002/ep.70023

Climate shapes baseflows, influencing drought severity

Zaerpour, M.; Hatami, S.; Ballarin, A. S.; Papalexiou, S. M.; Pietroniro, A.; Adamowski, J. F.

10.1088/1748-9326/ad975a

A data-driven framework for assessing climatic impact drivers in the context of food security

Benso, M. R.; Silva, R. F.; Chiquito Gesualdo, G.; Saraiva, A. M.; Delbem, A. C. B.; Marques, P. A. A.; Marengo, J. A.; Mendiõdo, E. M.

10.5194/nhess-25-1387-2025

Design and characterization of a SiO₂-TiO₂ coating containing organic and inorganic thermochromic pigments and optimized with TiO₂-P25 for improved long-term performance in energy-efficient roofing

Hidalgo-Araujo, A. C.; Salomão, R.; Berardi, U.; Dornelles, K. A.

10.1016/j.solmat.2025.113655

Effects of sugarcane cultivation on the carbon dioxide dynamics of tropical headwater streams

Taniwaki, R. H.; Stanley, E. H.; Cunha, D. G. F.; Bento, C. B.; Ferreira, M. S.; Martinelli, L. A.; França, M. V.; Schiesari, L. C.; Partani, S.; Carmo, J. B.

10.1080/20442041.2024.2431400

Evaluation of steel ladle refractories lining designs aiming energy savings using open-source finite element tools

Santos, J. A.; Santos, M. F.; Moreira, M. H.; Angélico, R. A.; Pandolfelli, V. C.

10.1111/ijac.14928

Green manufacturing impact on fatigue strength: A comparative analysis of heat-treated AISI 420 and plastically deformed AISI 301LN stainless steels

Pinheiro Santos, M.; Siqueira Corrêa, E. C.; Castro, G. M.; Bose Filho, W. W.; Magnabosco, R.; Lopes, W.; Silva Labiapari, W.

10.1016/j.jmrt.2025.03.087



ODS 13-AÇÃO CONTRA A MUDANÇA GLOBAL DO CLIMA



How likely is Ukraine to experience an extreme drought in the near future?

Ballarin, A. S.; Markonis, Y.; Rakovec, O.; Papalexiou, S. M.

10.1007/s10584-025-03958-9

Hydrological heritage: a historical exploration of human–water dynamics in northeast Brazil

Pereira, B. S.; Uchôa, J. G. S. M.; Freitas, G. S.; Meira Neto, A. A.; Anache, J. A. A.; Wendland, E. C.; Mendiando, E. M.; Medeiros, P. H. A.

10.1080/02626667.2024.2446272

Impact of carbonation on reinforced concrete structures, considering the increase of CO₂ due to climate change in Brazil

Teodoro, C. P.; Carrazedo, R.

10.1590/s1983-41952025000800014

Optimizing biohydrogen yield in anaerobic co-digestion of swine manure and coffee waste: Valorization and perspectives

Lourenço, V. A.; Gomes, M. M.; Centurion, V. B.; Sakamoto, I. K.; Silva, É. L.; Varesche, M. B. A.

10.1016/j.ijhydene.2025.150246

Prediction of physical-mechanical properties, CO₂ capture, and storage in accelerated weathering of basaltic rocks from the Serra Geral Group

Oliveira, P. C.; Zuquette, L. V.

10.1016/j.jsames.2025.105677

Projected Hydrological Changes in the Sobradinho Basin in the 21st Century Based on SWAT/SUPER Simulations

Galvíncio, J. D.; Mendiando, E. M.; Montenegro, S. G.; Miranda, R. Q.; Bressiani, D.; Souza, W. M.; Pimentel, R. M. M.; Costa, V. S. O.; Moura, M. S. B.; Cuartas, L. A.; Costa, R. S.; Pereira, E. B.; Silva, P. G. C.

10.26848/RBGF.V18.05.P2640-2656

Removal mechanisms of pentachlorophenol in a horizontal-flow anaerobic immobilized biomass reactor (HAIB) inoculated with an indigenous estuarine sediment microbiota: adsorption and biodegradation processes

Brucha, G.; Giordani, A.; Vieira, B. F.; Damianovic, M. H. R. Z.; Saia, F. T.; Damasceno, L. H. S.; Janzen, J. G.; Foresti, E.; Vazoller, R. F.

10.1007/s10532-024-10096-z

Soil Moisture–Drought Nexus across Brazil: Identifying Current Issues and Future Perspectives

Bertotto, L. E.; Medeiros Costa, H. K.; Alves Vasconcelos, P. E.; Araújo, I. L.; Wendland, E. C.

10.1061/JWRMD5.WRENG-6577

The potential contribution of riparian vegetation in non-point source pollution control during rainfall events in a tropical urban watershed

Paiva, C. L.; Bega, J. M. M.; Zambrano, K. T.; Cunha, D. G. F.

10.1590/2318-0331.302520240123

TiO₂-P25 Enhanced Thermochromic Coatings for Energy Efficient Roofing: Evaluating Long-Term Performance through Accelerated Aging Tests

Hidalgo-Araujo, A. C.; Salomão, R.; Berardi, U.; Dornelles, K. A.

10.1016/j.buildenv.2025.113208

Uneven shifts in flood and drought flows in a Brazilian water supply catchment

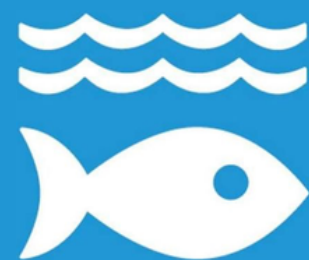
Mattos, T. S.; Ballarin, A. S.; Lucas, M. C.; Almagro, A.; Oliveira, P. T. S.

10.1016/j.ejrh.2025.102498

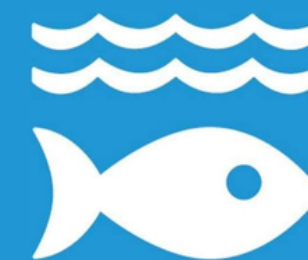
Usability of agricultural drought vulnerability and resilience indicators in planning strategies for small farms: A principal component approach

Sarmah, T.; Balta-Ozkan, N.; Konak, A.; Shrimpton, E.; Sass, K. S.; Macedo, M. B.; Mendiando, E. M.; Nardocci, A. C.; Huo, D.; Jacobson, M. G.

10.1016/j.cliser.2025.100569



ODS 14-VIDA NA ÁGUA



Phosphorus adsorption of a residue from the pulp and paper industry (grits):
contributions to tertiary wastewater treatment

Kohatsu, M. Y.; Carmo Calijuri, M.; Paula, R. Z.; Arantes, C. C.;
Lange, C. N.; Jesus, T. A.

10.1007/s13762-024-06158-7

A systematic review of the environmental impacts of the Fundão dam rupture in Mariana
(Minas Gerais, Brazil)

Soares, Á. K. M.; Rodrigues, M. B.; Rodrigues, V. G. S.;
Kasemodel, M. C.; Silva, V. C. G.

10.1007/s11356-025-36695-8

Waste Valorisation and Contribution to the Circular Economy: The Evaluation of Water
Treatment Sludge as a Phosphorus Adsorption Material and its Potential for Agricultural
Reuse

Kohatsu, M. Y.; Carmo Calijuri, M.; Paula, R. Z.; Arantes, C. C.;
Lange, C. N.; Ribeiro, M. N.; Silva Novais, K.; Morais Alves, J.;
Urzedo, A. L.; Jesus, T. A.

10.1007/s11270-024-07699-w



ODS 15-VIDA TERRESTRE



Advancing the 15th SDG: G20 Nations' Progress in Protecting Life on Land Through Circular Economy Strategies

Campoli, J.S.| Nagano, M.S.| Kodama, T.K.| Burnquist, H.L.

10.1002/bsd2.70141

Assessment of the bonding quality of *Toona ciliata* (Australian cedar) lamellas for glulam beams produced with different adhesives and surface finishes

Oliveira, K.A.D.| Jardim, P.I.L.G.| Oliveira, C.A.B.| Rodrigues, E.F.C.| Christoforo, A.L.| Molina, J.C.

10.1016/j.ijadhadh.2024.103887

Biohydrogen production from wastewater-grown microalgae-bacteria consortia: Optimizing inoculum selection for enhanced yield

Silva, T. A.; Araujo, M. N.; Rezende, E. G. F.; Saia, F. T.; Magalhães, I. B.; Paula Pereira, A. S. A.; Ferreira, J.; Gregoracci, G. B.; Tallarico Adorno, M. Â.; Fuess, L. T.; Zaiat, M.; Calijuri, M. L.

10.1016/j.renene.2025.123079

Chemical and ecotoxicological assessment of the uptake of pesticides 2,4-D and fipronil by free-floating aquatic macrophytes

Ogura, A.P.| Dias, M.A.| Marestoni, I.F.| Bernegossi, A.C.| Felipe, M.C.| Montagner, C.C.| Espíndola, E.L.G.

10.1007/s13762-024-06287-z

Clean development mechanisms in Latin America: Efficiency analysis of energy-generating projects

Pacagnella Junior, A.C.| de Moraes, G.H.S.M.| da Silva, A.L.| Putti, F.F.| Bortoletto, W.W.

10.1002/ep.70023

Land cover changes in buffer zones and the effectiveness of this conservation strategy: Case study of Southeastern Brazil

Guerra, B.R.| Abrantes, P.C.D.R.M.| Ranieri, V.E.L.

10.1016/j.landusepol.2025.107665

Potential use of wood addition for restoring ecosystem metabolism and nutrient uptake in a subtropical river

Bega, J.M.M.| Saltarelli, W.A.| Furley, T.H.| dos Reis Oliveira, P.C.| Cunha, D.G.F.

10.1016/j.ecohyd.2025.100665

Progress of G20 Nations on the 6th Sustainable Development Goal Under the Circular Economy Perspective

Campoli, J.S.| Kodama, T.K.| Nagano, M.S.| Burnquist, H.L.

10.1007/s13132-024-02475-x

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Galvíncio, J.D.| Mendiando, E.M.| Montenegro, S.G.| de Miranda, R.Q.| Bressiani, D.| de Souza, W.M.| de Pimentel, R.M.M.| Costa, V.S.O.| de Moura, M.S.B.| Cuartas, L.A.| Costa, R.S.| Pereira, E.B.| da Silva, P.G.C.

10.26848/RBGF.V18.05.P2640-2656

The potential contribution of riparian vegetation in non-point source pollution control during rainfall events in a tropical urban watershed

de Paiva, C.L.| Bega, J.M.M.| Zambrano, K.T.| Cunha, D.G.F.

10.1590/2318-0331.302520240123



ODS 15 - VIDA TERRESTRE



Soil Moisture–Drought Nexus across Brazil: Identifying Current Issues and Future Perspectives

Marques, J.P.| Bertotto, L.E.| De Medeiros Costa, H.K.| Alves Vasconcelos, P.E.| De Araújo, I.L.| Wendland, E.C.Rodrigues, V.G.S.

10.1061/JWRMD5.WRENG-6578

A Systematic Literature Review of Treatment Approaches with Sulfate-Reducing Bacteria for Acid Mine Drainage

Marques, J.P.| Rodrigues, V.G.S.

10.1007/s11270-025-07916-0

Toward a better understanding of curve number and initial abstraction ratio values from a large sample of watersheds perspective

Brandão, A.R.A.| Schwamback, D.| Ballarin, A.S.| Ramirez–Avila, J.J.| Vasconcelos Neto, J.G.| Oliveira, P.T.S.

10.1016/j.jhydrol.2025.132941

Toward effective river restoration in Brazil: a systematic review of current practices, regional disparities, and success metrics

Hordones, R.H.| Boëchat, I.G.| Cunha, D.G.F.| Brauns, M.| Gücker, B.

10.1111/rec.70041

Unmanned Aerial Vehicle Cooperation for the Monitoring of Greenhouse Gases

Caurin, G.| Daud Filho, A.C.| Silva, J.R.

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Uptake of 2,4-D and fipronil by green manure species: an ecotoxicological assessment of soil phytoremediation

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Addressing climate change in Berlin's local land-use plans through strategic environmental assessment and knowledge brokering

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Critical factors of change management in small and medium enterprises: an exploratory study using the best worst method in the Brazilian context

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Evaluating the disclosure of impacts, risks, and opportunities in sustainability reports published by Brazilian companies: a multicriteria decision analysis

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Pathways to circular nutrient ecosystems: Strategic roadmaps addressing sustainability drivers and barriers in Australia

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Sustainable Development: Prioritizing Attributes and Validating Factors for the Success of Green Startups in Brazilian and German Entrepreneurial Ecosystems

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