

Advancing Circular Economy Models : The Synergistic Role of Service Design and Blockchain Technology in Enhancing Sustainability and Consumer Engagement

Gerasimova, Vera Scientific Papers of the University of Pardubice, Series D : Faculty of Economics and Administration 2024 / art. 2126 <https://doi.org/10.46585/sp32022126> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Circular economy approach to recycling technologies of post-consumer textile waste in Estonia : a review

Hussain, Abrar; Kamboj, Nikhil Kumar; Podgurski, Vitali; Antonov, Maksim; Goljandin, Dmitri Proceedings of the Estonian Academy of Sciences 2021 / p. 80-90 : ill <https://doi.org/10.3176/proc.2021.1.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The circular economy innovation potential behind the scarcity of raw materials—A literature review

Kraut, Elisabeth Paula Martina; Wellbrock, Wanja; Gerstlberger, Wolfgang Dieter Urban and transit planning : city planning: urbanization and circular development 2023 / p. 201-206 https://doi.org/10.1007/978-3-031-20995-6_18 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Closing the loop with automated adaptive disassembly

Schmitt, R. H.; Göppert, A.; Sohnius, F.; Frye, M.; Balzereit, F.; Elsner, J.; Briele, K.; Bergs, L.; Bitter-Krahe, J.; Drechsel, M.; Häring, Tobias Empower Green Production: Conference proceedings : AWK'23, May 11-12, 2023 2023 / p. 61-89 : ill <https://doi.org/10.24406/publica-943>

A comparison of waste education in schools and colleges across five European cities

Lee, Sheryl A.; Mork, Jane; Voca, Neven; Voronova, Viktoria International Journal of Sustainable Development & World Ecology 2022 / p. 338-348 <https://doi.org/10.1080/13504509.2021.2019138> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An economic and sustainable approach to transform aluminosilicate-rich solid waste to functionally graded composite foam for high-temperature applications

Pandey, Vaibhav; Yadav, Mayank Kumar; Panda, Saroja Kanta; Singh, Vinay Kumar Chemosphere 2023 / art. 139588, 12 p. : ill <https://doi.org/10.1016/j.chemosphere.2023.139588> [Journal metrics at Scopus](#) [Article at Scopus](#)

Enablers and barriers in circular economy : the case of Estonia

Küttim, Merle; Gerstlberger, Wolfgang Dieter; Hurt, Ulrika; Kotov, Arseni; Kull, Margit; Niine, Tarvo; Ahmadov, Tarlan; Tuisk, Tarmo XXXIV ISPIM Innovation Conference : Innovation and Circular Economy : proceedings 2023 <https://www.ispim-research.com> <https://finna.fi/Record/fikka.5608732>

Experimental mechanics analysis of recycled polypropylene-cotton composites for commercial applications

Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Abbas, Muhammad Mujtaba; Krasnou, Illia Advanced industrial and engineering polymer research 2023 / p. 226-238 : ill <https://doi.org/10.1016/j.aiepr.2022.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fiscal incentives for circular economy : insights from the Baltic states

Ahmadov, Tarlan; Gerstlberger, Wolfgang Dieter; Prause, Gunnar Klaus Business Models for the Circular Economy : a European Perspective 2022 / p. 219-239 https://doi.org/10.1007/978-3-031-08313-6_9

How to reconcile technology and justice in the circular economy: the innovation of open-source mid-tech solutions

Kostakis, Vasileios; Dalakoglou, Dimitris Sustainability Science Practice and Policy 2025 <https://doi.org/10.1080/15487733.2025.2546166>

Indicators for resource recovery monitoring within the circular economy model implementation in the wastewater sector

Preisner, Michal; Smol, Marzena; Roosalu, Kati Journal of Environmental Management 2022 / art. 114261 <https://doi.org/10.1016/j.jenvman.2021.114261> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Industry 4.0 technologies in circular innovation : a review of sustainable value chain studies

Azizov, Turan Scientific Papers of the University of Pardubice, Series D: Faculty of Economics and Administration 2024 / 14 p. <https://doi.org/10.46585/sp32022090> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Introduction to the Special Issue “The twin challenge of sustainability and digital transformation”

Gerstlberger, Wolfgang Dieter; Prause, Gunnar Klaus Scientific Papers of the University of Pardubice, Series D : Faculty of Economics and Administration 2024 / art. 2137, 5 p <https://doi.org/10.46585/sp32022137> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Life cycle assessment of laboratory-scale chitosan production: comparison of high-pressure processing-assisted and conventional methods

Bashiri, Bashir; Pinheiro, Ana Cristina De Aguiar Saldanha; Tappi, Silvia; Rocculi, Pietro; Kaleda, Aleksei; Vilu, Raivo Proceedings of the Estonian Academy of Sciences 2025 / p. 1-14 : ill <https://doi.org/10.3176/proc.2025.1.01>

Mild steel tribology for circular economy of textile industries

Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Basit, Muhammad Abdul; Ahmad, Tahir Tribology in Industry 2021 / p. 552-560 <https://doi.org/10.24874/ti.1050.02.21.04> [Journal metrics at Scopus](#) [Article at Scopus](#)

NFT-based life cycle management for batteries of e-cars

Prause, Gunnar Klaus; Gerlitz, Laima Transport and telecommunication journal 2024 / p. 378-391 <https://doi.org/10.2478/tjt-2024-0028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NFT-enriched smart contracts for smart circular economy models

Gerasimova, Vera; Prause, Gunnar Klaus; Hoffmann, Thomas Entrepreneurship and sustainability issues 2023 / p. 93-110 [https://doi.org/10.9770/jesi.2023.11.2\(7\)](https://doi.org/10.9770/jesi.2023.11.2(7))

NFT-solutions for sustainable entrepreneurship

Gerasimova, Vera; Gerstlberger, Wolfgang Dieter; Prause, Gunnar Klaus IEF20 International Entrepreneurship Forum Conference 2024

Novel approach to making environmentally-friendly plaster - moisture buffer value of plaster made of wastepaper and different glues

Nutt, Nele; Nei, Lembit; Muoni, Helgi; Kubjas, Ardo; Raamets, Jane Latvian journal of physics and technical sciences 2024 / p. 59-68

A novel Ti-eggshell-based composite fabricated by combined additive manufacturing-powder metallurgical routes as bioimplants

Shukla, Riddhi Hirenkumar; Yadav, Mayank Kumar; Madruga, Liszt Yeltsin Coutinho; Jaymani, Jayraj; Popat, Ketul; Wang, Zhi; Xi, Lixia; **Prashanth, Konda Gokuldoss** Ceramics international 2024 / 11 p <https://doi.org/10.1016/j.ceramint.2024.12.073>

Patterns of attention towards circular economy practices: Insights from the metal industry in Estonia

Kotov, Arseni Scientific Papers of the University of Pardubice, Series D : Faculty of Economics and Administration 2024 / art. 2085 <https://doi.org/10.46585/sp32022085> [Journal metrics at Scopus](#) [Article at Scopus](#)

Performance assessment of sustainable leadership of enterprise's circular economy-driven innovative activities

Bashynska, I.; Malynovska, Y.; Kolinko, N.; Bielialov, T.; J  rvis, Marina; Kovalska, K.; Saiensus, M. Sustainability 2024 / art. 558 <https://doi.org/10.3390/su16020558> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Progress in sustainable recycling and circular economy of tungsten carbide hard metal scraps for industry 5.0 and onwards

Kumar, Rahul, 1993-; Kariminejad, Arash; Antonov, Maksim; Goljandin, Dmitri; Klimczyk, Piotr; **Hussainova, Irina** Sustainability 2023 / art. 12249 <https://doi.org/10.3390/su151612249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reflow collaborative governance toolkit v.1.1

Petridis, Panos; Frosini, Valentina; Tsiouris, Nikiforos; Pazaitis, Alexandros 2022 <https://doi.org/10.5281/zenodo.6594575>

Role of experimental damage mechanics for the circular economy implementation in cotton industries

Hussein, Abrar; Abbas, Muhammad Mujtaba Journal of Modern Nanotechnology 2021 / 9 p <https://doi.org/10.53964/jmn.2021004>

The role of paradigms and technical strategies for implementation of the circular economy in the polymer and composite recycling industries

Hussain, Abrar; Podgurski, Vitali; Viljus, Mart; Awan, Muhammad Rizwan Advanced Industrial and Engineering Polymer Research 2023 / p. 1-12 <https://doi.org/10.1016/j.aiepr.2022.10.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Shadow optimisation of low-impact temporary architecture to improve climatic comfort in urban spaces

Siani, Rossella; De Luca, Francesco eCAADe 2024 : Data-Driven Intelligence : Proceedings of the 42nd Conference on Education and Research in Computer Aided Architectural Design in Europe ; vol. 2 Proceedings of the International Conference on Education and Research in Computer Aided Architectural Design in Europe 2024 / p. 577-586 https://papers.cumincad.org/data/works/att/ecaade2024_81.pdf <https://doi.org/10.52842/conf.ecaade.2024.2.577> [Conference proceedings at Scopus](#) [Article at Scopus](#)

SMEs on the way to a circular economy : insights from a multi-perspective review

Ahmadvov, Tarlan; Durst, Susanne; Gerstlberger, Wolfgang Dieter; Kraut, Elisabeth Paula Martina Management review quarterly 2023 / 34 p <https://doi.org/10.1007/s11301-023-00380-2> [Journal metrics at Scopus](#) [Article at Scopus](#)

Spent Li-Ion battery graphite turned into valuable and active catalyst for electrochemical oxygen reduction

Liivand, Kerli; Kazemi, Maryam; Walke, Peter; Mikli, Valdek; Macdonald, Digby D.; Kruusenberg, Ivar ChemSusChem 2021 / p. 1103-1111 <https://doi.org/10.1002/cssc.202002742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Strategies for sustainable and circular management of phosphorus in the Baltic Sea region : The holistic approach of the InPhos project

Smol, Marzena; Preisner, Michal; Bianchini, Augusto; **Voronova, Viktoria**; **Pachel, Karin** Sustainability 2020 / 21 p. : ill
<https://doi.org/10.3390/su12062567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sustainable fabrication of polypropylene-postconsumer cotton composite materials : circularity, characterization, mechanical testing, and tribology

Hussain, Abrar; **Podgurski, Vitali**; **Goljandin, Dmitri**; **Antonov, Maksim**; **Viljus, Mart**; **Krasnou, Illia** Materials today sustainability 2023 / art. 100344, 16 p. : ill <https://doi.org/10.1016/j.mtsust.2023.100344> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The composition and properties of ash in the context of the modernisation of oil shale industry

Uibu, Mai; **Tamm, Kadriann**; **Viies, Regiina**; Reinik, Janek; Somelar, Peeter; **Raado, Lembi-Merike**; **Hain, Tiina**; **Kuusik, Rein, keemik**; **Trikkel, Andres** Oil shale 2021 / p. 155–176 : ill <https://doi.org/10.3176/oil.2021.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The concept of the decision support system to plan the reverse logistics in automotive industry

Makarova, Irina; Shubenkova, Ksenia; **Pashkevich, Anton** 2018 2th International Conference on Software, Telecommunications and Computer Networks (SoftCOM) : Split - Supetar, Croatia, September 13 - 15, 2018 2018 / 6 p. : ill
<http://doi.org/10.23919/SOFTCOM.2018.8555760>

The license to mine : making resource wealth work for those who need it most

Hagan, Andrew J.; Tost, Michael; Inderwildi, Oliver R.; **Hitch, Michael William**; Moser, Peter Resources policy 2021 / art. 101418
<https://doi.org/10.1016/j.resourpol.2019.101418> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The role of reverse logistics in the transition to a circular economy

Makarova, Irina; Shubenkova, Ksenia; **Pashkevich, Anton**; Shepelev, Vladimir Reliability and Statistics in Transportation and Communication : Selected Papers from the 18th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'18, 17-20 October 2018, Riga, Latvia 2019 / p. 363–373 https://doi.org/10.1007/978-3-030-12450-2_35
[Conference proceedings at Scopus](#) [Article at Scopus](#)

The transition to a circular economy : different paths for international and non-international micro-manufacturing firms

Ahmadov, Tarlan; **Foli, Samuel**; **Durst, Susanne**; **Gerstlberger, Wolfgang Dieter** Discover sustainability 2024 / art. 178, 18 p. : ill
<https://doi.org/10.1007/s43621-024-00367-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological and circular economy aspects of polypropylene/cotton fibre hybrid composite

Hussain, Abrar; **Podgurski, Vitali**; **Goljandin, Dmitri**; **Antonov, Maksim**; **Kumar, Rahul, 1993-**; **Kamboj, Nikhil Kumar**; **Rahmani Ahranjani, Ramin**; **Viljus, Mart**; Ahmad, Tahir; **Krumme, Andres**; **Krasnou, Illia** Proceedings of the Estonian Academy of Sciences 2022 / p. 186-193 : ill <https://doi.org/10.3176/proc.2022.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribology of alumina materials for the circular economy of manufacturing textile industries

Hussain, Abrar; **Podgurski, Vitali**; **Goljandin, Dmitri**; **Antonov, Maksim**; **Viljus, Mart** Proceedings of the Estonian Academy of Sciences 2021 / lk. 215-220 : ill <https://doi.org/10.3176/proc.2021.3.01> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tungsten carbide material tribology and circular economy relationship in polymer and composites industries

Hussain, Abrar; **Podgurski, Vitali**; **Antonov, Maksim**; Abbas, Muhammad Mujtaba; Rizwan, Muhammad Proceedings of the Institution of Mechanical Engineers, Part L : Journal of Materials : Design and Applications 2022 / p. 2066-2073
<https://doi.org/10.1177/2F14644207221096929> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)