

TBMCE 2023

6. – 8. 9. 2023
Grand Hotel Bernardin
Portorož, Slovenia

PROGRAM KONFERENCE
CONFERENCE PROGRAMME



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REPUBLIC OF SLOVENIA
MINISTRY OF COHESION
AND REGIONAL DEVELOPMENT

Partner country: Netherlands



Sponsors:



Predavanja, panelne diskusije, družabni dogodki / Oral Presentations, Panel Discussions, Social Events

Sreda / Wednesday, 6. 9. 2023	
13:00 – 14:00	Registracija / Registration
14:00 – 14:45	<p>Otvoritev / Opening Ceremony</p> <ul style="list-style-type: none"> • Matevž Frangež, državni sekretar, pristojen za internacionalizacijo, podjetništvo, razvojna sredstva in turizem na Ministrstvu za gospodarstvo, turizem in šport / State Secretary for internationalization, entrepreneurship, development resources and tourism at Ministry of the Economy, Tourism and Sport • His Excellency, Mr. Johan O. Verboom, veleposlanik Kraljevine Nizozemske v Sloveniji / Ambassador of the Kingdom of the Netherlands to the Republic of Slovenia • dr. Slobodan Šešum, generalni direktor, direktorat za gospodarsko in javno diplomacijo, Ministrstvo za zunanje in evropske zadeve / Director-General, Directorate for Economic and Public Diplomacy, Ministry of Foreign and European Affairs • Albert Kekec, predsednik Štajerske gospodarske zbornice / President of Chamber of Commerce and Industry of Štajerska • prof. dr. Dean Korošak, prorektor Univerze v Mariboru / Vice-Rector of the University of Maribor • prof. dr. Zoran Novak, dekan Fakultete za kemijo in kemijsko tehnologijo Univerze v Mariboru / Dean of the Faculty of Chemistry and Chemical Engineering of the University of Maribor • prof. dr. Zdravko Kravanja, predsednik konference TBMCE in predsednik programskega sveta SRIP Krožno gospodarstvo / President of the TBMCE conference and President of Programme Council of the Strategic Research and Innovation Partnership – Networks for the transition into circular economy
14:45 – 16:15	<p>Okrogla miza / Round table</p> <p>Standardizacija za krožno gospodarstvo – varnejše in manj zapleteno zapiranje snovnih zank / Standardization for circular economy – more secure and less complicated closing of material loops</p> <p>Moderator:</p> <p>Nina Meglič, Štajerska gospodarska zbornica, koordinatorka SRIP - Krožno gospodarstvo / Chamber of Commerce and Industry of Štajerska, coordinator of SRIP - Circular Economy</p> <p>Govorci / Speakers:</p> <p>dr. Peter Wostner, Urad Republike Slovenije za makroekonomske analize in razvoj (UMAR); Univerza v Ljubljani, Fakulteta za družbene vede / Institute for Macroeconomic Analysis and Development (IMAD); University of Ljubljana, Faculty of Social Sciences</p> <p>dr. Luka Krajnc, Pro Labor d.o.o.</p> <p>dr. Zorka Novak Pintarič, Univerza v Mariboru, Fakulteta za kemijo in kemijsko tehnologijo / University of Maribor, Faculty of Chemistry and Chemical Engineering</p> <p>Olga Naglič, Slovenski inštitut za standardizacijo (SIST) / Slovenian Institute for Standardization (SIST)</p> <p>dr. Radmila Wollrab, Helios TBLUS, d.o.o.</p>

16:15 – 17:00	<p>Okrogla miza / Round Table</p> <p>Podjetniški pogled na krožni prehod na Nizozemskem / Entrepreneurial perspective on the circular transition in the Netherlands case</p> <p>Moderator: Remco van den Horst, Greenproc b.v., Accredited Red Team Leader</p>
17:00 – 17:30	<p>Odmor za kavo / Coffee Break</p>
17:30 – 19:00	<p>Panelna diskusija 1 / Panel discussion 1</p> <p>Zajem, skladiščenje in pretvorba CO₂ ali H₂? / Capture, storage or conversion of CO₂ or H₂?</p> <p>Moderator:</p> <p>dr. Blaž Likozar, Kemijski inštitut / National Institute of Chemistry</p> <p>Govorci / Speakers:</p> <p>dr. Nataša Zabukovec Logar, Kemijski inštitut / National Institute of Chemistry</p> <p>dr. Marko Maver, Ministrstvo za naravne vire in prostor/ Ministry of Natural Resources and Spatial Planning of the Republic of Slovenia</p> <p>dr. Varužan Kevorkijan, direktor Impol R in R, d.o.o. / Director of Impol R in R, d. o. o.</p> <p>dr. Jaap Vente, Roadmap Manager CO₂ Neutral Industry at TNO, Netherlands</p>
20:00 –	<p>Spoznavni večer / Get together</p>

<p>Četrtek / Thursday, 7. 9. 2023</p>	
8:00 – 9:00	<p>Registracija / Registration</p>
9:00 – 9:45	<p>Plenarno predavanje / Plenary Lecture</p> <p>On the role of carbon circularity for the energy transition</p> <p>Prof François Marechal, Industrial Process and Energy System Engineering, EPFL Valais Wallis, Switzerland</p> <p>Predsednik / Chair: Zdravko Kravanja</p>
10:00 – 11:30	<p>Panelna diskusija 2 / Panel discussion 2</p> <p>Potencial malih biorafinerij za Slovenijo / The potential of small scale biorefining</p> <p>Moderator:</p> <p>dr. Primož Oven, Biotehniška fakulteta, Univerza v Ljubljani / Biotechnical Faculty, University of Ljubljana</p> <p>Govorci / Speakers:</p>

	<p>dr. Igor Mihelič, Melamin d.d. Kočevje</p> <p>Jon Goriup Dermastia, Anteja ECG d.o.o, VCG.AI</p> <p>dr. David Ravnjak, ICP – Inštitut za celulozo in papir / ICP – Pulp and Paper Institute</p> <p>dr. Peter Prislan, Gozdarski inštitut Slovenije / Slovenian Forestry Institute</p>	
11:30 – 12:00	<p>Odmor za kavo in poster sekcija / Coffee break and Poster Session</p>	
12:00 – 13:30	<p style="text-align: center;">Predavanja 1 / Lectures 1</p> <p style="text-align: center;">Predsednik / Chair: Darja Pečar</p>	<p style="text-align: center;">Panelna diskusija 3 / Panel discussion 3</p> <p>Krožno gradbeništvo – mit ali resnična priložnost? / Circular economy in construction – myth or real opportunity?</p> <p>Moderator:</p> <p>dr. Alenka Mauko Pranjič, Zavod za gradbeništvo Slovenije / Slovenian National Building and Civil Engineering Institute</p> <p>Govorci / Speakers:</p> <p>Matevž Frangež, državni sekretar, pristojen za internacionalizacijo, podjetništvo, razvojna sredstva in turizem na Ministrstvu za gospodarstvo, turizem in šport / State Secretary for internationalization, entrepreneurship, development resources and tourism at Ministry of the Economy, Tourism and Sport</p> <p>Prof. dr. ir. Arjan van Timmeren, TU Delft, Faculty of Architecture and the Built Environment, Netherlands</p> <p>mag. Bernarda Podlipnik, Ministrstvo za okolje, podnebje in energijo, Direktorat za okolje, Sektor za ravnanje z odpadki / Ministry of the Environment, Climate and Energy, Environment Directorate, Waste Management Division</p> <p>Bart Stegeman, Climate-KIC</p> <p>dr. Tjaša Zupančič Hartner, GIC GRADNJE d.o.o.</p> <p>dr. Primož Oprčkal, Zavod za gradbeništvo Slovenije / Slovenian National Building and Civil Engineering Institute</p>
12:00 – 12:20	<p>»Green« wrought aluminum alloys with an increased amount of post-consumed-scrap</p> <p>Varužan Kevorkijan, Impol Aluminium Industry (SI)</p>	
12:20 – 12:40	<p>Large-scale demonstrations of constructing with SRM-based construction materials</p> <p>Primož Pavšič, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Alenka Mauko Pranjič, National Building and Civil Engineering Institute (SI)</p> <p>Ana Mladenovič, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Primož Oprčkal, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Tomislav Ploj, Javno podjetje Nigrad, komunalno podjetje, d. o. o. (SI)</p>	
12:40 – 13:00	<p>Smart, recyclable and repairable composites</p> <p>Arunjunai Raj Mahendran, Kompetenzzentrum Holz GmbH WOOD K PLUS (AT)</p> <p>Siva Kaylasa Sundari, Kompetenzzentrum Holz GmbH WOOD K PLUS (AT)</p> <p>Günter Wuzella, Kompetenzzentrum Holz GmbH WOOD K PLUS (AT)</p> <p>Herfried Lammer, Kompetenzzentrum Holz GmbH WOOD K PLUS (AT)</p>	
13:00 – 13:20	<p>Bio-based resins for coatings</p> <p>Nataša Čuk, Helios TBLUS d.o.o. (SI)</p> <p>Martin Ocepek, Helios TBLUS d.o.o. (SI)</p> <p>Miha Steinbücher, Helios TBLUS d.o.o. (SI)</p> <p>Nejc Vidmar, Helios TBLUS d.o.o. (SI)</p> <p>Jaka Langerholc, Helios TBLUS d.o.o. (SI)</p>	

	Peter Venturini , Helios TBLUS d.o.o. (SI)	
13:30 – 15:00	Kosilo / Lunch	
15:00 – 15:30	Slovenska strategija trajnostne pametne specializacije - S5 / Slovene sustainable smart specialisation strategy - S5 Marko Hren , vodja Sektorja za koordinacijo pametne specializacije na Ministrstvu za kohezijo in regionalni razvoj / Head of the Smart Specialisation Coordination Division at Ministry of Cohesion and Regional Development	
15:30 – 17:00	Predavanja 2 / Lectures 2 Predsednik / Chair: François Marechal	Panelna diskusija 4 / Panel discussion 4 Pomen krožnih skupnosti v mednarodnem okolju / Importance of circular communities in international arena
15:30 – 15:50	Simulation assisted development of SOC systems Nežka Brunec , AVL-AST d.o.o. Slovenija (SI) Aleš Cvikl , AVL-AST d.o.o. Slovenija (SI) Ivo Prah , AVL-AST d.o.o. Slovenija (SI)	Moderator: Ram Dušič Hren , Bright3r
15:50 – 16:10	Case study of digital and circular transformation interaction in foundries Luka Krajnc , Pro Labor d.o.o. (SI) Marko Bojinović , Pro Labor d.o.o. (SI) Grega Klančnik , Pro Labor d.o.o. (SI) Andrej Resnik , OMCO Metals Slovenia d.o.o. (SI)	Govorci / Speakers: mag. Majda Potokar , Tehnološki park Ljubljana d.o.o. / Technology park Ljubljana d.o.o. Špela Gutnik , Circular Shield, d.o.o. mag. Ladeja Godina Košir , ustanoviteljica in direktorica Circular Change ter soprodsedujoča Evropski platformi za krožno gospodarstvo ECESP / Founder and Executive Director of Circular Change, Co-Chair of the European Circular Economy Stakeholder Platform (ECESP)
16:10 – 16:30	Advanced data analytics in industry for enabling circular economy from within Matej Emin , Culmium Advanced Technologies (SI) Drejc Kopač , Culmium Advanced Technologies (SI), National Institute of Chemistry (SI)	mag. Nina Seljak , Ministrstvo za zunanje in evropske zadeve / Ministry of Foreign and European Affairs Andre Tops , Corsair Group International
16:30 – 16:50	New approaches to CAPEX and OPEX evaluation in case of environmental and circular technologies investment Erik Mihelič , ZRS Bistra Ptuj (SI) Dušan Klinar , ZRS Bistra Ptuj (SI) Klavdija Rižnar , ZRS Bistra Ptuj (SI)	
17:00 – 18:30	Predavanja 3: Snovno učinkovito in krožno gradbeništvo / Lectures 3: Resource efficient and circular construction	Predavanja 4 / Lectures 4 Predsednik / Chair: Petar Sabev Varbanov

Predsednik / Chair: Dragica Marinič			
17:00 – 17:30	<p><u>Uvodno predavanje /Keynote lecture</u></p> <p>Towards a Circular Built Environment – Lessons from the Netherlands</p> <p><u>Arjan van Timmeren</u>, Delft University of Technology (TU Delft), Resilient Delta Initiative, AMS Institute (NL)</p>	17:00 – 17:20	<p>Advanced solutions to mitigate plastic river pollution: an integrated approach to maintain the health of European waters</p> <p><u>Annamaria Vujanović</u>, University of Maribor (SI)</p> <p>Jan Puhar, University of Maribor (SI)</p>
17:30 – 17:45	<p>Circular construction – from development of new products to circular business models</p> <p><u>Alenka Mauko Pranjic</u>, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Primož Pavšič, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Davor Kvočka, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Dragica Marinič, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Ana Mladenovič, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Primož Oprčkal, Slovenian National Building and Civil Engineering Institute (SI)</p>	17:20 – 17:40	<p>Design and manufacturing of sustainable industrial packaging from alternative lignocellulosic biomass</p> <p><u>David Ravnjak</u>, Pulp and paper institute (SI)</p> <p>Gregor Čepon, University of Ljubljana (SI)</p> <p>Aleš Mihelič, Gorenje gospodinjski aparati d.o.o. (SI)</p> <p>Tina Frangež, Surovina d.o.o. (SI)</p> <p>Jawad Elomari, SINTEF AS (NO)</p>
17:45 – 18:00	<p>Current state and possibilities for recovery of raw materials from sewage sludge and its recycling in construction composites</p> <p><u>Primož Oprčkal</u>, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Ana Mladenovič, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Alenka Mauko Pranjic, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Miha Štruc, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Jasna Smolar, University of Ljubljana (SI)</p>	17:40 – 18:00	<p>Is the plastic conscious society enough to stop the pollution?</p> <p><u>Uroš Novak</u>, National Institute of Chemistry (SI)</p> <p>Mirica Karlovits, National Institute of Chemistry (SI)</p> <p>Vesna Kuralt, National Institute of Chemistry (SI)</p> <p>Blaž Likozar, National Institute of Chemistry (SI)</p>
18:00 – 18:15	<p>Hydration of ashes from different incineration processes</p> <p><u>Vesna Zalar Serjun</u>, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Marija Đurić, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>Mateja Štefančič, Slovenian National Building and Civil Engineering Institute (SI)</p>	18:00 – 18:30	<p><u>Uvodno predavanje /Keynote lecture</u></p> <p>Future Proof Plastics, Closing the Carbon Loop</p> <p><u>Jaap Vente</u>, The Netherlands Organization of Applied Scientific research (NL)</p> <p>Pieter Imhof, The Netherlands Organization of Applied Scientific research (NL)</p>

	Bendadi Hanumantha Rao , Indian Institute of Technology Bhubaneswar (IN)		
18:15 – 18:30	<p>LIFE HIDAQUA: Sustainable water management in high water demanding industries</p> <p>M. Mesas, Technological Centre of Catalonia (ES)</p> <p>S. Seršen, Slovenian National Building and Civil Engineering Institute (SI)</p> <p>C. Pérez, Hidroquimia Tractaments i Química Industrial (ES)</p> <p>S. Markežič, Hidria d.o.o (SI)</p> <p>J. Hočvar, Geologija d.o.o. Idrija (SI)</p> <p>R. Milačič, Jožef Stefan Institute (SI)</p> <p>P. Oprčkal, Slovenian National Building and Civil Engineering Institute (SI)</p>		
20:00 –	Večerja / Gala Dinner		

Petek / Friday, 8. 9. 2023					
8:00 – 8:30	Registracija / Registration				
8:30 – 10:00	<p>Panelna diskusija 5 / Panel discussion 5</p> <p>Sektorska sklopitev: pot do integriranih energetskega sistemov / Sector coupling: pathways to integrated energy systems</p> <p>Moderator:</p> <p>dr. Tine Seljak, Fakulteta za strojništvo, Univerza v Ljubljani / Faculty of Mechanical Engineering, University of Ljubljana</p> <p>Govorci / Speakers:</p> <p>dr. Andrej Kitanovski, Univerza v Ljubljani, Fakulteta za strojništvo / University of Ljubljana, Faculty of Mechanical Engineering</p> <p>dr. Viktor Vračar, SIJ d.d. / SIJ d.d. – Slovenian Steel Group, Management Adviser - Energy</p> <p>Boštjan Krajnc, Zavod Energetska agencija za Savinjsko, Šaleško in Koroško (KSSENA) / Energy Agency of Savinjska, Šaleška and Koroška region</p> <p>Simon Kragelj, Salonit Anhovo, Head of Energy management</p>				
10:00 – 11:30	<p>Panelna diskusija 6 / Panel discussion 6</p> <p>Problematika odpadne plastike v vodah - izzivi in rešitve / Combating plastic pollution of water - challenges and solutions</p> <p>Moderator:</p> <p>dr. Annamaria Vujanović, Fakulteta za kemijo in kemijsko tehnologijo, Univerza v Mariboru / Faculty of Chemistry and Chemical Engineering, University of Maribor</p> <p>Govorci / Speakers:</p> <p>Maria Westerbos, Plastic Soup Foundation</p> <p>dr. Mojca Škerget, Univerza v Mariboru, Fakulteta za kemijo in kemijsko tehnologijo / University of Maribor, Faculty of chemistry and chemical engineering</p> <p>dr. Andrej Kržan, Planet Care d.o.o.</p> <p>Bart Stegeman, Climate-KIC</p> <p>dr. Mateja Grego, NIB - Morska biološka postaja Piran</p>				
11:30 – 12:00	Odmor za kavo in poster sekcija / Coffee break and Poster Session				
12:00 – 13:30	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">Predavanja 5 / Lectures 5</td> <td style="text-align: center;">Predavanja 6 / Lectures 6</td> </tr> <tr> <td style="text-align: center;">Predsednik / Chair: Andreja Nemet</td> <td style="text-align: center;">Predsednik / Chair: Mojca Škerget</td> </tr> </table>	Predavanja 5 / Lectures 5	Predavanja 6 / Lectures 6	Predsednik / Chair: Andreja Nemet	Predsednik / Chair: Mojca Škerget
Predavanja 5 / Lectures 5	Predavanja 6 / Lectures 6				
Predsednik / Chair: Andreja Nemet	Predsednik / Chair: Mojca Škerget				

<p>12:00 – 12:30</p>	<p><u>Uvodno predavanje /Keynote lecture</u></p> <p>RESHeat: GHG Emission Reduction and Increased Energy Security by Supporting Urban and Rural Prosumers</p> <p><u>Petar Sabev Varbanov</u>, Brno University of Technology (CZ)</p> <p>Paweł Ocloń, Cracow University of Technology (PL)</p> <p>Ting Pan, Brno University of Technology (CZ)</p> <p>Zdravko Kravanja, University of Maribor (SI)</p> <p>Andreja Nemet, University of Maribor (SI)</p>	<p>12:00 – 12:20</p>	<p>Hydrogels Based on Nanofibrillated Cellulose</p> <p><u>Ida Poljanšek</u>, University of Ljubljana (SI)</p> <p>Urša Osolnik, University of Ljubljana (SI)</p> <p>Viljem Vek, University of Ljubljana (SI)</p> <p>Primož Oven, University of Ljubljana (SI)</p>
<p>12:30 – 12:50</p>	<p>Environmental and Economic Factors of Electric Vehicle Integration in Public Transport</p> <p>Urban Žvar Baškovič, University of Ljubljana (SI)</p> <p>Patricija Cirar, University of Ljubljana (SI)</p> <p>Žiga Rosec, University of Ljubljana (SI)</p> <p>Davor Rašić, University of Ljubljana (SI), Ministry of environment, climate and energy RS (SI)</p> <p>Janez Blaž, Ministry of environment, climate and energy RS (SI)</p> <p>Rok Vihar, University of Ljubljana (SI), Ljubljanski potniški promet d.o.o. (SI)</p> <p>Tine Seljak, University of Ljubljana (SI)</p> <p>Tomaž Katrašnik, University of Ljubljana (SI)</p>	<p>12:20 – 12:40</p>	<p>Innovative bio-based screen printing inks for glass bottles decoration</p> <p>Liza Marija Strnad, RC eNeM d.o.o. (SI), STEKLARNA HRASTNIK d.o.o. (SI)</p> <p>Ana Varlec, RC eNeM d.o.o. (SI), STEKLARNA HRASTNIK d.o.o. (SI)</p> <p>Tilen Sever, RC eNeM d.o.o. (SI), STEKLARNA HRASTNIK d.o.o. (SI)</p> <p>Natalija Virant, RC eNeM d.o.o. (SI), STEKLARNA HRASTNIK d.o.o. (SI)</p> <p>Ivan Jerman, National Institute of Chemistry (SI)</p> <p>Ana Drinčić, National Institute of Chemistry (SI)</p> <p>Nigel Van De Velde, National Institute of Chemistry (SI)</p>
<p>12:50 – 13:10</p>	<p>Waste nuclear radiation utilization for hydrogen production</p> <p><u>Anže Prašnikar</u>, National Institute of Chemistry (SI)</p> <p>Brigita Hočevnar, National Institute of Chemistry (SI)</p> <p>Anže Jazbec, Jožef Stefan Institute (SI)</p> <p>Luka Snoj, Jožef Stefan Institute (SI)</p> <p>Blaž Likozar, National Institute of Chemistry (SI)</p>	<p>12:40 – 13:00</p>	<p>Sono-assisted -mediated oxidation of cellulose: Properties from fibers to nanofibrils</p> <p><u>Jaka Levanič</u>, University of Ljubljana (SI)</p> <p>Antti Haapala, University of Eastern Finland (FI)</p>

13:10 – 13:30	<p>Reducing Environmental Impacts Using an Innovative System to Exploit Excess Heat from Cogeneration Gas Engines</p> <p>Jan Puhar, University of Maribor (SI)</p> <p>Danijela Urbancl, University of Maribor (SI)</p> <p>Damjan Krajnc, University of Maribor (SI)</p> <p>Annamaria Vujanović, University of Maribor (SI)</p> <p>Darko Goričanec, University of Maribor (SI)</p>	13:00 – 13:20	<p>Enzymatic Hydrolysis of Textile and Cardboard Waste as a Glucose Source for the Production of Limonene in <i>Escherichia coli</i></p> <p>Žiga Zebec, University of Maribor (SI)</p> <p>Mojca Poberžnik, IOS d.o.o.</p> <p>Aleksandra Lobnik, University of Maribor (SI), IOS d.o.o.</p>
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POSTERJI / POSTER SESSIONS

Št. / Slot	
1	<p>Influence of Polymeric Flame Retardants on the Flammability and Mechanical-Physical Properties of Polyurethane and Alkali-Activated Foams</p> <p><i>Branka Mušič</i>, Slovenian National Building And Civil Engineering Institute (SI), <i>Barbara Horvat</i>, Slovenian National Building And Civil Engineering Institute (SI), <i>Nataša Knez</i>, Slovenian National Building And Civil Engineering Institute (SI).</p>
2	<p>Waste Polyurethane Foams With/Without Polymeric Flame Retardants Reused in Alkali-Activated Materials</p> <p><i>Barbara Horvat</i>, Slovenian National Building And Civil Engineering Institute (SI), <i>Branka Mušič</i>, Slovenian National Building And Civil Engineering Institute (SI), <i>Nataša Knez</i>, Slovenian National Building And Civil Engineering Institute (SI).</p>
3	<p>Chemical Composition and Bioactivity of Cembran Pine Wood Waste Extracts</p> <p><i>Vanja Štolcer</i>, Kompetenzzentrum Holz GmbH (AT), <i>Christoph Jocham</i>, Kompetenzzentrum Holz GmbH (AT), <i>Judith Sinic</i>, Kompetenzzentrum Holz GmbH (AT), <i>Meta Sterniša</i>, University of Ljubljana (SI), <i>Valentina Malin</i>, University of Ljubljana (SI), <i>Dina Ramić</i>, University of Ljubljana (SI), <i>Sonja Smole Možina</i>, University of Ljubljana (SI).</p>
4	<p>Visual and Numerical Presentation of Current State of the Energy System in Slovenia</p> <p><i>David Hvalec</i>, University of Maribor (SI), <i>Franco Krog</i>, University of Maribor (SI), <i>Jurij Avsec</i>, University of Maribor (SI),</p>

	<i>Miloš Bogataj</i> , University of Maribor (SI), <i>Andreja Nemet</i> , University of Maribor (SI).
5	The Influence of Different Operation Atmospheres on the Produced Biochar Quality <i>Marjana Simonič</i> , University of Maribor (SI), <i>Christoph Hochenauer</i> , Institute of Thermal Engineering (AT), <i>Nika Fekonja</i> , University of Maribor (SI), <i>Darko Goričanec</i> , University of Maribor (SI), <i>Danijela Urbancl</i> , University of Maribor (SI).
6	Characterization and Mechanical Properties of Sintered Clay Minerals <i>Sara Tominc</i> , Slovenian National Building And Civil Engineering Institute (SI), <i>Vilma Ducman</i> , Slovenian National Building And Civil Engineering Institute (SI), <i>Jakob König</i> , Jožef Stefan Institute (SI), <i>Srečo Škapin</i> , Jožef Stefan Institute (SI).
7	Preparation of Carboxy-Methyl-Dextran Coated Magnetic-Basednanoparticles and Their Ability to Adsorb Ciprofloxacin <i>Olivija Plohl</i> , University of Maribor (SI), <i>Maša Vračevič</i> , University of Maribor (SI), <i>Sašo Gyergyek</i> , Jožef Stefan Institute (SI), <i>Tjaša Kraševac Glaser</i> , University of Maribor (SI), <i>Matej Bračič</i> , University of Maribor (SI), <i>Silvo Hribernik</i> , University of Maribor (SI), <i>Alenka Vesel</i> , Jožef Stefan Institute (SI), <i>Lidija Fras Zemljič</i> , University of Maribor (SI).
8	Effect of Polyolefins Quality on Degradation in Supercritical Water <i>Mihael Irgolič</i> , University of Maribor (SI), <i>Maja Čolnik</i> , University of Maribor (SI), <i>Petra Kotnik</i> , University of Maribor (SI), <i>Lidija Čuček</i> , University of Maribor (SI), <i>Mojca Škerget</i> , University of Maribor (SI).
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	<p><i>Mislav Trbušič</i>, University of Maribor (SI), <i>Viktor Goričan</i>, University of Maribor (SI), <i>Marko Jesenik</i>, University of Maribor (SI), <i>Anton Hamler</i>, University of Maribor (SI), <i>Željko Knez</i>, University of Maribor (SI), <i>Yilmaz Yürekli</i>, Manisa Celar Bayar University (TR), <i>Maja Leitgeb</i>, University of Maribor (SI).</p>
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16	<p>Investigation of Artificial CO₂ and Fruit Syrup Addition on Fermentation Course of Kombucha Beverage <i>Darja Pečar</i>, University of Maribor (SI), <i>Andreja Goršek</i>, University of Maribor (SI).</p>
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18	<p>Waste Analysis and Determination of the Average Composition of Municipal Waste with a Focus on the Circular Economy <i>Jiří Gregor</i>, Brno University of Technology (CZ), <i>Jiří Kropáč</i>, Brno University of Technology (CZ), <i>Martin Pavlas</i>, Brno University of Technology (CZ), <i>Yee Van Fan</i>, Brno University of Technology (CZ).</p>
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21	<p>Energy Management of Buildings with a Focus on Municipalities <i>Karolína Smutková</i>, Brno University of Technology (CZ), <i>Jiří Gregor</i>, Brno University of Technology (CZ), <i>Petar Sabev Varbanov</i>, Sustainable Process Integration Laboratory (CZ), <i>Petr Stehlík</i>, Brno University of Technology (CZ).</p>
22	<p>Thermogravimetric Analysis of Pyrolysis of Hydrochar from Industrial Waste <i>Aleksandra Petrovič</i>, University of Maribor (SI), <i>Sabina Vohl</i>, University of Maribor (SI), <i>Irena Ban</i>, University of Maribor (SI), <i>Tjaša Cenčič Predikaka</i>, IKEMA d.o.o. (SI), <i>Lidija Čuček</i>, University of Maribor (SI).</p>
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24	<p>Progress of Urban Climate Planning in European Mediterranean Cities <i>Klavdija Rižnar</i>, SRC Bistra Ptuj (SI), <i>Filomena Pietrapertosa</i>, National Research Council of Italy (IT), National Biodiversity Future Center (IT), <i>Marta Olazabal</i>, Basque Centre for Climate Change (ES), IKER BASQUE, Basque Foundation for Science (ES), <i>Sofia G. Simoes</i>, The National Energy Laboratory of Portugal (PT), <i>Monica Salvia</i>, National Research Council of Italy (IT), National Biodiversity Future Center (IT),</p>

	<p><i>Paris A. Fokaides</i>, Frederick University (CY), <i>Byron I. Ioannou</i>, Frederick University (CY), <i>Vincent Viguie</i>, Centre International de Recherche sur l'Environnement et le D'éveloppement (FR), <i>Niki-Artemis Spyridaki</i>, University of Piraeus (GR), <i>Sonia De Gregorio Hurtado</i>, Universidad Polit'ecnica de Madrid (ES), <i>Davide Geneletti</i>, University of Trento (IT), <i>Oliver Heidrich</i>, Tyndall Centre for Climate Change Research, Newcastle University (GB), <i>Lea Tardieu</i>, Centre International de Recherche sur l'Environnement et le D'éveloppement (FR), TETIS, Univ Montpellier (FR), <i>Efren Feliu</i>, TECNALIA, Basque Research and Technology Alliance (BRTA) (ES), <i>Marko Matosovič</i>, Abu Dhabi National Energy Company (TAQA) (AE), <i>Mario V. Balzan</i>, Malta College of Arts, Science aand Technology (MT), <i>Alexandros Flamos</i>, University of Piraeus (GR), <i>Nataša Belšak Šel</i>, SRC Bistra Ptuj (SI), <i>Diana Reckien</i>, Faculty of Geo-Information Science and Earth Observation (NL).</p>
25	<p>Residues of Pharmaceuticals in Drinking and Wastewater <i>Urška Rozman</i>, University of Maribor (SI), <i>Boštjan Križanec</i>, National Laboratory for Health, Environment and Food (SI), <i>David Haložan</i>, University of Maribor (SI), <i>Sonja Šostar Turk</i>, University of Maribor (SI).</p>
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27	<p>Sustainable Optimization of the Food Supply Chain Under Uncertainty <i>Jan Drofenik</i>, University of Maribor (SI), <i>Bojan Pahor</i>, University of Maribor (SI), Saubermacher Slovenija d.o.o. (SI), <i>Zdravko Kravanja</i>, University of Maribor (SI), <i>Zorka Novak Pintarič</i>, University of Maribor (SI).</p>
28	<p>Waste Rubber Incorporated in the Alkali-Activated Metakaolin's Aluminosilicate Network Enhanced by Microwave Irradiation <i>Barbara Horvat</i>, Slovenian National Building And Civil Engineering Institute (SI), <i>Branka Mušič</i>, Slovenian National Building And Civil Engineering Institute (SI).</p>
29	<p>Review of the Techno-Economic Assessment of Plastic Value Chains <i>Xuexia Jia</i>, Brno University of Technology (CZ), <i>Chun Yan Si</i>, Brno University of Technology (CZ), <i>Damjan Krajnc</i>, University of Maribor (SI), <i>Yee Van Fan</i>, Brno University of Technology (CZ), <i>Monika Dokl</i>, University of Maribor (SI), <i>Sanja Potrč</i>, University of Maribor (SI), <i>Petar Sabev Varbanov</i>, Brno University of Technology (CZ), <i>Lidija Čuček</i>, University of Maribor (SI), <i>Zdravko Kravanja</i>, University of Maribor (SI).</p>
30	<p>Optimizing Performance and Cost-Effectiveness of Different Rankine Cycle Configurations <i>Monika Dokl</i>, University of Maribor (SI), <i>Zdravko Kravanja</i>, University of Maribor (SI), <i>Lidija Čuček</i>, University of Maribor (SI).</p>
31	<p>Comparative Study of Life Cycle Impact Assessment Methods Applied to PET Bottle Production <i>Damjan Krajnc</i>, University of Maribor (SI), <i>Lidija Čuček</i>, University of Maribor (SI), <i>Annamaria Vujanović</i>, University of Maribor (SI), <i>Jan Puhar</i>, University of Maribor (SI), <i>Yee Van Fan</i>, Brno University of Technology (CZ), <i>Petar Sabev Varbanov</i>, Brno University of Technology (CZ), <i>Zdravko Kravanja</i>, University of Maribor (SI).</p>
32	<p>A Computer-Aided Approach to Optimizing Spray Drying Operating Parameters <i>Tine Pigac</i>, University of Maribor (SI), <i>Amanda Žižek</i>, University of Maribor (SI),</p>

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