

Date Published (M/D/Y)	Paper	Journal	Publisher	Death included in paper?	If yes, what?
1/20/2023	Optimal renewable energy export strategies of islands: Hydrogen or electricity?	Energy	Elsevier	No	
2/4/2023	Prediction and monitoring model for farmland environmental system using soil sensor and neural network algorithm	Open Physics	De Gruyter	No	
2/7/2023	Spotlighting the boosted energy storage capacity of CoFe2O4/Graphene nanoribbons: A promising positive electrode material for high-energy-density asymmetric supercapacitor	Energy	Elsevier	No	
2/19/2023	A review of CO2 utilization and emissions reduction: From the perspective of the chemical engineering	Process Safety and Environmental Protection	Elsevier	No	
2/22/2023	Optimisation of multi-period renewable energy systems with hydrogen and battery energy storage: A P-graph approach	Energy Conversion and Management	Elsevier	No	
2/23/2023	The utilisation of coconut shell ash in production of hybrid composite: Microstructural characterisation and performance analysis	Journal of Cleaner Production	Elsevier	Yes	This paper has been dedicated to the memory of passed Prof. Jiří Jaromír Klemeš.
3/4/2023	Sustainable energy integration within the circular economy	Renewable and Sustainable Energy Reviews	Elsevier	Yes	This work has been dedicated to the memory of Prof Dr-Habil Ing Jiří Jaromír KLEMEŠ, DSc, Dr h c (mult), He unexpectedly passed away on 16 January 2023. His contribution has been highly appreciated, and he will be always remembered.
3/24/2023	A new strategy for mixed refrigerant composition optimisation in the propane precooled mixed refrigerant natural gas liquefaction process	Energy	Elsevier	No	
3/27/2023	The influence of plates corrugations angle on PHE thermal performance in condensing of steam with the presence of air	Heat and Mass Transfer	Springer	No	
4/3/2023	Plate heat exchangers fouling mitigation effects in heating of water solutions: A review	Renewable and Sustainable Energy Reviews	Elsevier	No	

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4/4/2023	Optimizing the thermal performance of the thermosyphon heat pipe for energy saving with graphene oxide nanofluid	Energy	Elsevier	Yes	Professor Jiří Jaromír Klemeš has worked on the manuscript. Sadly, he passed away before its submission. However, the authors would like to show their appreciation for his leadership and scientific excellence and would like to keep him in the list of authors.
4/10/2023	Deeppipe: A two-stage physics-informed neural network for predicting mixed oil concentration distribution	Energy	Elsevier	No	
4/13/2023	Optimizing plastics recycling networks	Cleaner Engineering and Technology	Elsevier	Yes	Dagger next to name
4/27/2023	Effect of pressure on regenerative cooling process of endothermic hydrocarbon fuel at severe pyrolysis conditions	Aerospace Science and Technology	Elsevier	No	
5/13/2023	A concept to maximise energy self-sufficiency of the housing stock in central Europe based on renewable resources and efficiency improvement	Energy	Elsevier	No	
5/13/2023	Development of selection criteria of zeotropic mixtures as working fluids for the trans-critical organic Rankine cycle	Energy	Elsevier	Yes	This paper has been dedicated to the memory of Professor Jiří Jaromír Klemeš, Head of the Sustainable process integration laboratory (SPIL), the founder and president of 26-year PRES (Process Integration for Energy Saving and Pollution Reduction) conferences. He unexpectedly passed away on January 17, 2023. His contribution has been highly appreciated, and he will be remembered in chemical engineering, energy engineering, environmental engineering, and ecological engineering.
5/17/2023	Sustainable Water Use in Industry—Reasons, Challenges, Response of Kazakhstan	Circular Economy and Sustainability	Springer	Yes	The paper is dedicated to the memory of Prof. Dr-Habil Ing Jiří Jaromír Klemeš—the Head of Sustainable Process Integration Laboratory (SPIL)—who was the leading researcher in the area of process integration. He passed away in January 2023.

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5/26/2023	Optimisation of an existing water injection network in an oilfield for multi-period development	Optimization and Engineering	Springer	No	
6/3/2023	Nanocatalysts in photocatalytic water splitting for green hydrogen generation: Challenges and opportunities	Journal of Cleaner Production	Elsevier	Yes	This paper is dedicated to the memory of Professor Jiří Jaromír Klemeš, the founder and president of 26-year PRES (Process Integration for Energy Saving and Pollution Reduction) conferences and the Head of the Sustainable Process Integration Laboratory (SPIL). He played a significant role in this work. Sadly, he unexpectedly passed away on 17 January 2023. Professor Klemeš's contribution to the fields of chemical engineering, energy engineering, environmental engineering, and ecological engineering is highly appreciated, and his legacy will always be remembered.
6/3/2023	Direct measurement of methane emissions from the upstream oil and gas sector: Review of measurement results and technology advances (2018–2022)	Journal of Cleaner Production	Elsevier	No	
6/3/2023	Developing a sustainability solid waste treatment portfolio for 3Ps (planet-prosperity-people) nexus	Journal of Cleaner Production	Elsevier	Yes	Cross
6/5/2023	Process synthesis considering sustainability for both normal and non-normal operations: P-graph approach	Journal of Cleaner Production	Elsevier	No	
6/5/2023	Nanobiochar reduces ammonia emission, increases nutrient mineralization from vermicompost, and improves maize productivity	Journal of Cleaner Production	Elsevier	No	
6/15/2023	Magnetic Nitrogen-Rich UiO-66 Metal–Organic Framework: An Efficient Adsorbent for Water Treatment	ACS Applied Materials & Interfaces	American Chemical Society	No	
6/19/2023	Bioprospecting of biosurfactant-producing bacteria for hydrocarbon bioremediation: Optimization and characterization	Korean Journal of Chemical Engineering	Springer	Yes	This work is dedicated to the memory of Prof. Jiří Jaromír Klemeš, who inspired and supported us in our research.

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6/21/2023	Multi-objective optimization of thermophysical properties GO powders-DW/EG Nf by RSM, NSGA-II, ANN, MLP and ML	Energy	Elsevier	Yes	Professor Jiří Jaromír Klemeš has worked on the manuscript. Sadly, he passed away before its submission. However, the authors would like to show their appreciation for his leadership and scientific excellence and would like to keep him in the list of authors.
6/22/2023	Optimal HEN with PHEs for Carbon Dioxide Capture by Amine Absorption Unit at Coal Fired Power Station	Chemical Engineering Transactions	AIDIC	No	
6/27/2023	Review of Developments in Plate Heat Exchanger Heat Transfer Enhancement for Single-Phase Applications in Process Industries	Energies	MDPI	No	
7/3/2023	Research on energy management of hydrogen electric coupling system based on deep reinforcement learning	Energy	Elsevier	Yes	Professor Jiří Jaromír Klemeš has worked on the manuscript. Sadly, he passed away before the final submission. However, the authors would like to show their appreciation for his leadership and scientific excellence and would like to keep him in the list of authors.
7/3/2023	Sustainable and optimized values for municipal wastewater: The removal of biological oxygen demand and chemical oxygen demand by various levels of granular activated carbon- and genetic algorithm-based simulation	Journal of Cleaner Production	Elsevier	Yes	Professor Jiří Jaromír Klemeš has worked on the manuscript. Sadly, he passed away before its submission. However, the authors would like to show their appreciation for his leadership and scientific excellence and would like to keep him in the list of authors.
7/6/2023	Activated waste cotton cellulose as renewable fuel and value-added chemicals: Thermokinetic analysis, coupled pyrolysis with gas chromatography and mass spectrometry	Energy	Elsevier	No	
7/17/2023	Thermodynamic evaluation of mixed refrigerant selection in dual mixed refrigerant NG liquefaction process with respect to 3E's (Energy, Exergy, Economics)	Energy	Elsevier	Yes	Professor Jiří Jaromír Klemeš has worked on the manuscript. Sadly, he passed away before its submission. However, the authors would like to show their appreciation for his leadership and scientific excellence and would like to keep him in the list of authors.

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7/18/2023	Estimating parameters of plate heat exchanger for condensation of steam from mixture with air as a component of heat exchanger network	Energy	Elsevier	No	
7/19/2023	Implementation of Circular Economy in the Water Sector in the Industrial Region of Kazakhstan	Chemical Engineering Transactions	AIDIC	Yes	The research is dedicated to the memory of Prof Jiří Jaromír Klemeš - the Head of the Sustainable Process Integration Laboratory – SPIL who was the leading researcher in the area of process integration.
7/31/2023	A rapid removal of Phaeocystis globosa from seawater by peroxymonosulfate enhanced cellulose nanocrystals coagulation	Ecotoxicology and Environmental Safety	Elsevier	No	
8/16/2023	Mechanistic insight and optimisation of hydrothermally pre-treated biowaste-derived biochar for saline water treatment	Journal of Cleaner Production	Elsevier	No	
8/16/2023	Blockchain technology applications in waste management: Overview, challenges and opportunities	Journal of Cleaner Production	Elsevier	No	
8/17/2023	Environmental footprints and implications of converting GHG species to value-added chemicals: a review	Reviews in Chemical Engineering	De Gruyter	Yes	This paper is dedicated to the memory of the late Professor Jiří Jaromír Klemeš, who contributed to this manuscript. Sadly, he passed away before its submission. The authors would like to express their deep appreciation for his leadership and invaluable scientific contribution.

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8/21/2023	Effects evaluation of Fin layouts and configurations on discharging performance of double-pipe thermochemical energy storage reactor	Energy	Elsevier	Yes	This paper also is dedicated to the memory of Professor Jiří Jaromír Klemeš, who inspired and supported us in our research. Jiří is the Head of the Sustainable process integration laboratory (SPIL), the founder and president of 26-year PRES (Process Integration for Energy Saving and Pollution Reduction) conferences. He unexpectedly passed away on January 17, 2023. His contribution has been highly appreciated, and he will be remembered in chemical engineering, energy engineering, environmental engineering, and ecological engineering.
8/29/2023	Hybrid Prediction-Driven High-Throughput Sustainability Screening for Advancing Waste-to-Dimethyl Ether Valorization	Environmental Science & Technology	American Chemical Society	Yes	¶Deceased in January 2023.
9/17/2023	Efficiency measures for energy supply and use aiming for a clean circular economy	Energy	Elsevier	Yes	Professor Jiří Jaromír Klemeš has worked on the manuscript. Sadly, he passed away before its submission. However, the authors would like to show their appreciation for his leadership and scientific excellence and would like to keep him on the list of authors.
9/19/2023	A critical review on sustainable hazardous waste management strategies: a step towards a circular economy	Environmental Science and Pollution Research	Springer	Yes	This paper is dedicated to the memory of the late Professor Jiří Jaromír Klemeš, who contributed to this manuscript. Sadly, he passed away before its submission. The authors would like to express their deep appreciation for his leadership and invaluable scientific contribution.
10/1/2023	Systematic framework to select the sustainable best design for an automated fertiliser blending system	Journal of Cleaner Production	Elsevier	No	

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10/17/2023	A review on nanofluid stability: preparation and application	Renewable and Sustainable Energy Reviews	Elsevier	Yes	This paper has been dedicated to the memory of Professor Jiří Jaromír Klemeš, Head of the Sustainable process integration laboratory (SPIL), the founder and president of 26-year PRES (Process Integration for Energy Saving and Pollution Reduction) conferences. He did most of the work until he unexpectedly passed away on January 17, 2023. His contribution has been highly appreciated, and he will be remembered in chemical engineering, energy engineering, environmental engineering, and ecological engineering.
11/3/2023	Process design, integration, and optimization of a novel compressed air energy storage for the coproduction of electricity, cooling, and water	Renewable and Sustainable Energy Reviews	Elsevier	No	
11/13/2023	The elasticity and efficiency of carbon reduction strategies in transportation	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Taylor and Francis	Yes	The co-authors would like to acknowledge the support from SPIL, funded as project No.CZ.02.1.01/0.0/0.0/15_003/0000456, by Czech Republic Operational Programme Research and Development, Education, Priority 1: Strengthening capacity for quality research" and to express our gratitude to the late Prof Jiří Jaromír Klemeš. His contributions and unwavering support were invaluable to the success of our collaboration
6/12/2024	Efficiency improvement of the solar chimneys by insertion of hanging metallic tubes in the collector: Experiment and computational fluid dynamics simulation	Journal of cleaner production	Elsevier	No	
7/28/2024	Functionalisation of biowaste-derived biochar via accelerated hydrothermal-assisted post-treatment for enhanced sodium ion adsorption	Biomass Conversion and Biorefinery	Springer	No	

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8/17/2024	Designing a multi-period dynamic electric vehicle production-routing problem in a supply chain considering energy consumption	Journal of Cleaner Production	Elsevier	Yes	<p>Professor Jiří Jaromír Klemeš has worked on the manuscript. Sadly, he passed away before its submission. However, the authors would like to show their appreciation for his leadership and scientific excellence and would like to keep him in the list of authors.</p>