Sergiy M Smetana

List of Publications by Year
in descending order

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62 papers	2,397 citations	279487 23 h-index	214527 47 g-index
71 all docs	71 docs citations	71 times ranked	2064 citing authors

#	Article	IF	Citations
1	Sustainability of insect use for feed and food: Life Cycle Assessment perspective. Journal of Cleaner Production, 2016, 137, 741-751.	4.6	259
2	Sustainable use of Hermetia illucens insect biomass for feed and food: Attributional and consequential life cycle assessment. Resources, Conservation and Recycling, 2019, 144, 285-296.	5.3	231
3	Autotrophic and heterotrophic microalgae and cyanobacteria cultivation for food and feed: life cycle assessment. Bioresource Technology, 2017, 245, 162-170.	4.8	197
4	Pilot scale thermal and alternative pasteurization of tomato and watermelon juice: An energy comparison and life cycle assessment. Journal of Cleaner Production, 2017, 141, 514-525.	4.6	81
5	Structure design of insect-based meat analogs with high-moisture extrusion. Journal of Food Engineering, 2018, 229, 83-85.	2.7	78
6	Black soldier fly larvae (BSFL) and their affinity for organic waste processing. Waste Management, 2022, 140, 1-13.	3.7	75
7	Sustainable extraction of valuable components from Spirulina assisted by pulsed electric fields technology. Algal Research, 2020, 48, 101914.	2.4	66
8	Environmental aspects of insect mass production. Journal of Insects As Food and Feed, 2021, 7, 553-571.	2.1	50
9	Meat substitution in burgers: nutritional scoring, sensorial testing, and Life Cycle Assessment. Future Foods, 2021, 4, 100042.	2.4	47
10	Life cycle assessment of emerging technologies: The case of milk ultra-high pressure homogenisation. Journal of Cleaner Production, 2017, 142, 2209-2217.	4.6	45
11	Modularity of insect production and processing as a path to efficient and sustainable food waste treatment. Journal of Cleaner Production, 2020, 248, 119248.	4.6	43
12	A Path From Sustainable Nutrition to Nutritional Sustainability of Complex Food Systems. Frontiers in Nutrition, 2019, 6, 39.	1.6	41
13	Insect margarine: Processing, sustainability and design. Journal of Cleaner Production, 2020, 264, 121670.	4.6	40
14	Food Supply Chains as Cyber-Physical Systems: a Path for More Sustainable Personalized Nutrition. Food Engineering Reviews, 2021, 13, 92-103.	3.1	37
15	Life cycle assessment of burger patties produced with extruded meat substitutes. Journal of Cleaner Production, 2021, 306, 127177.	4.6	37
16	Estimation of the economy of heterotrophic microalgae- and insect-based food waste utilization processes. Waste Management, 2020, 102, 198-203.	3.7	35
17	Bio-refinery of insects with Pulsed electric field pre-treatment. Innovative Food Science and Emerging Technologies, 2020, 64, 102403.	2.7	35
18	Edible Insect Farming in the Context of the EU Regulations and Marketingâ€"An Overview. Insects, 2022, 13, 446.	1.0	35

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19	Sustainable plants in urban parks: A life cycle analysis of traditional and alternative lawns in Georgia, USA. Landscape and Urban Planning, 2014, 122, 140-151.	3.4	34
20	Bio-refinery of Chlorella sorokiniana with pulsed electric field pre-treatment. Bioresource Technology, 2020, 301, 122743.	4.8	33
21	High-moisture extrusion with insect and soy protein concentrates: cutting properties of meat analogues under insect content and barrel temperature variations. Journal of Insects As Food and Feed, 2019, 5, 29-34.	2.1	29
22	The impact of Corona pandemic on consumer's food consumption. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2021, 16, 305-314.	0.5	29
23	Effect of plant protein extrudates on hybrid meatballs â€“ Changes in nutritional composition and sustainability. Future Foods, 2021, 4, 100081.	2.4	26
24	Optimization of pulsed electric field assisted drying process of black soldier fly (<i>Hermetia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.7	25
25	Comparative life cycle assessment of a mesh ultra-thin layer photobioreactor and a tubular glass photobioreactor for the production of bioactive algae extracts. Bioresource Technology, 2021, 340, 125657.	4.8	25
26	Discrete Choice Analysis of Consumer Preferences for Meathybridsâ€"Findings from Germany and Belgium. Foods, 2021, 10, 71.	1.9	25
27	Sustainability and regions: sustainability assessment in regional perspective. Regional Science Policy and Practice, 2015, 7, 163-186.	0.8	24
28	Preferences of German Consumers for Meat Products Blended with Plant-Based Proteins. Sustainability, 2021, 13, 650.	1.6	24
29	Overcoming Technical and Market Barriers to Enable Sustainable Large-Scale Production and Consumption of Insect Proteins in Europe: A SUSINCHAIN Perspective. Insects, 2022, 13, 281.	1.0	23
30	Product development and environmental impact of an insect-based milk alternative. Future Foods, 2021, 4, 100080.	2.4	21
31	Neural network, blockchain, and modular complex system: The evolution of cyber-physical systems for material flow analysis and life cycle assessment. Resources, Conservation and Recycling, 2018, 133, 229-230.	5.3	19
32	Utilizing honeybee drone brood as a protein source for food products: Life cycle assessment of apiculture in Germany. Resources, Conservation and Recycling, 2020, 154, 104576.	5.3	19
33	Reconciling regionally-explicit nutritional needs with environmental protection by means of nutritional life cycle assessment. Journal of Cleaner Production, 2021, 312, 127696.	4.6	19
34	Spatioâ€Temporal Differentiation of Life Cycle Assessment Results for Average Perennial Crop Farm: A Case Study of Peruvian Cocoa Progression and Deforestation Issues. Journal of Industrial Ecology, 2018, 22, 1378-1388.	2.8	18
35	Consumer preferences for meat blended with plant proteins â€“ Empirical findings from Belgium. Future Foods, 2021, 4, 100088.	2.4	17
36	High-pressure processing of usually discarded dry aged beef trimmings for subsequent processing. Meat Science, 2020, 170, 108241.	2.7	15

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37	Review on milk substitutes from an environmental and nutritional point of view. Applied Food Research, 2022, 2, 100105.	1.4	15
38	Insect processing for food and feed: A review of drying methods. Drying Technology, 2022, 40, 1500-1513.	1.7	14
39	Can we associate environmental footprints with production and consumption using Monte Carlo simulation? Case study with pork meat. Journal of the Science of Food and Agriculture, 2021, 101, 960-969.	1.7	13
40	Measuring Relative Sustainability of Regions Using Regional Sustainability Assessment Methodology. Geographical Analysis, 2016, 48, 391-410.	1.9	12
41	Setting life cycle assessment (LCA) in a future-oriented context: the combination of qualitative scenarios and LCA in the agri-food sector. European Journal of Futures Research, 2022, 10, .	1.5	12
42	Life cycle assessment of hetero- and phototrophic as well as combined cultivations of Galdieria sulphuraria. Bioresource Technology, 2021, 335, 125227.	4.8	11
43	Correlation of the cell disintegration index with Luikov's heat and mass transfer parameters for drying of pulsed electric field (PEF) pretreated plant materials. Journal of Food Engineering, 2022, 316, 110822.	2.7	11
44	Life cycle assessment of specific organic wasteâ€“based bioeconomy approaches. Current Opinion in Green and Sustainable Chemistry, 2020, 23, 50-54.	3.2	10
45	An automated, modular system for organic waste utilization using heterotrophic alga Galdieria sulphuraria: Design considerations and sustainability. Bioresource Technology, 2022, 348, 126800.	4.8	10
46	Pulsed electric fieldâ€“treated insects and algae as future food ingredients. , 2020, , 247-266.		8
47	Cultivation of the heterotrophic microalga Galdieria sulphuraria on food waste: A Life Cycle Assessment. Bioresource Technology, 2021, 340, 125637.	4.8	8
48	Agri-Food Waste Streams Utilization for Development of More Sustainable Food Substitutes. , 2018, , 145-155.		7
49	Nutritional Sustainability Insideâ€“Marketing Sustainability as an Inherent Ingredient. Frontiers in Nutrition, 2019, 6, 84.	1.6	6
50	Sustainability and bioactive compound preservation in microwave and pulsed electric fields technology assisted drying. Innovative Food Science and Emerging Technologies, 2021, 67, 102597.	2.7	6
51	Analysis of selected functional properties, resource demands, and energy consumption of freezeâ€dried vegetable snacks. Journal of Food Processing and Preservation, 2022, 46, .	0.9	6
52	Emerging Technologies of Meat Processing. , 2019, , 181-205.		5
53	Meat Quality of Guinea Pig (Cavia porcellus) Fed with Black Soldier Fly Larvae Meal (Hermetia illucens) as a Protein Source. Sustainability, 2022, 14, 1292.	1.6	5
54	Environmental Impact Assessment of Pulsed Electric Fields Technology for Food Processing. Food Engineering Series, 2022, , 521-539.	0.3	3

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55	Editorial: Conversion of organic waste-to-food and feed. Current Opinion in Green and Sustainable Chemistry, 2020, 26, 100394.	3.2	2
56	An integrated, modular biorefinery for the treatment of food waste in urban areas. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100118.	2.9	2
57	Spatiotemporal Tools for Regional Low-Carbon Development: Linking LCA and GIS to Assess Clusters of GHG Emissions from Cocoa Farming in Peru. Ecoproduction, 2017, , 969-980.	0.8	1
58	Environmental sustainability issues for western food production. , 2020, , 173-200.		1
59	Sustainability assessment of mobile juice processing unit: farmers perspective. Future Foods, 2021, 4, 100064.	2.4	1
60	Innovative Technologies of Postoperational Mining Landscapes Management as a Key For Sustainable Development Achievement. , 2011, , .		1
61	Can Pulsed Electric Fields Treated Algal Cells Be Used as Stationary Phase in Chromatography?. Frontiers in Sustainable Food Systems, 2022, 6, .	1.8	1
62	Regionalized Input-Output Life Cycle Sustainability Assessment: Food Production Case Study. Ecoproduction, 2017, , 959-968.	0.8	0