

# Sergiy M Smetana

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Optimization of pulsed electric field assisted drying process of black soldier fly ( <i>Hermetia</i> ) Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.7	25
2	Insect processing for food and feed: A review of drying methods. <i>Drying Technology</i> , 2022, 40, 1500-1513.	1.7	14
3	Correlation of the cell disintegration index with Luikov's heat and mass transfer parameters for drying of pulsed electric field (PEF) pretreated plant materials. <i>Journal of Food Engineering</i> , 2022, 316, 110822.	2.7	11
4	Environmental Impact Assessment of Pulsed Electric Fields Technology for Food Processing. <i>Food Engineering Series</i> , 2022, , 521-539.	0.3	3
5	Black soldier fly larvae (BSFL) and their affinity for organic waste processing. <i>Waste Management</i> , 2022, 140, 1-13.	3.7	75
6	Meat Quality of Guinea Pig ( <i>Cavia porcellus</i> ) Fed with Black Soldier Fly Larvae Meal ( <i>Hermetia illucens</i> ) as a Protein Source. <i>Sustainability</i> , 2022, 14, 1292.	1.6	5
7	An automated, modular system for organic waste utilization using heterotrophic alga <i>Galdieria sulphuraria</i> : Design considerations and sustainability. <i>Bioresource Technology</i> , 2022, 348, 126800.	4.8	10
8	Overcoming Technical and Market Barriers to Enable Sustainable Large-Scale Production and Consumption of Insect Proteins in Europe: A SUSINCHAIN Perspective. <i>Insects</i> , 2022, 13, 281.	1.0	23
9	Can Pulsed Electric Fields Treated Algal Cells Be Used as Stationary Phase in Chromatography?. <i>Frontiers in Sustainable Food Systems</i> , 2022, 6, .	1.8	1
10	Edible Insect Farming in the Context of the EU Regulations and Marketing—An Overview. <i>Insects</i> , 2022, 13, 446.	1.0	35
11	Analysis of selected functional properties, resource demands, and energy consumption of freeze-dried vegetable snacks. <i>Journal of Food Processing and Preservation</i> , 2022, 46, .	0.9	6
12	Review on milk substitutes from an environmental and nutritional point of view. <i>Applied Food Research</i> , 2022, 2, 100105.	1.4	15
13	Setting life cycle assessment (LCA) in a future-oriented context: the combination of qualitative scenarios and LCA in the agri-food sector. <i>European Journal of Futures Research</i> , 2022, 10, .	1.5	12
14	Can we associate environmental footprints with production and consumption using Monte Carlo simulation? Case study with pork meat. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 960-969.	1.7	13
15	Food Supply Chains as Cyber-Physical Systems: a Path for More Sustainable Personalized Nutrition. <i>Food Engineering Reviews</i> , 2021, 13, 92-103.	3.1	37
16	Meat substitution in burgers: nutritional scoring, sensorial testing, and Life Cycle Assessment. <i>Future Foods</i> , 2021, 4, 100042.	2.4	47
17	Sustainability assessment of mobile juice processing unit: farmers perspective. <i>Future Foods</i> , 2021, 4, 100064.	2.4	1
18	Life cycle assessment of burger patties produced with extruded meat substitutes. <i>Journal of Cleaner Production</i> , 2021, 306, 127177.	4.6	37

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19	The impact of Corona pandemic on consumer's food consumption. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2021, 16, 305-314.	0.5	29
20	Reconciling regionally-explicit nutritional needs with environmental protection by means of nutritional life cycle assessment. <i>Journal of Cleaner Production</i> , 2021, 312, 127696.	4.6	19
21	Environmental aspects of insect mass production. <i>Journal of Insects As Food and Feed</i> , 2021, 7, 553-571.	2.1	50
22	Life cycle assessment of hetero- and phototrophic as well as combined cultivations of <i>Galdieria sulphuraria</i> . <i>Bioresource Technology</i> , 2021, 335, 125227.	4.8	11
23	Cultivation of the heterotrophic microalga <i>Galdieria sulphuraria</i> on food waste: A Life Cycle Assessment. <i>Bioresource Technology</i> , 2021, 340, 125637.	4.8	8
24	Comparative life cycle assessment of a mesh ultra-thin layer photobioreactor and a tubular glass photobioreactor for the production of bioactive algae extracts. <i>Bioresource Technology</i> , 2021, 340, 125657.	4.8	25
25	An integrated, modular biorefinery for the treatment of food waste in urban areas. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 4, 100118.	2.9	2
26	Effect of plant protein extrudates on hybrid meatballs – Changes in nutritional composition and sustainability. <i>Future Foods</i> , 2021, 4, 100081.	2.4	26
27	Product development and environmental impact of an insect-based milk alternative. <i>Future Foods</i> , 2021, 4, 100080.	2.4	21
28	Sustainability and bioactive compound preservation in microwave and pulsed electric fields technology assisted drying. <i>Innovative Food Science and Emerging Technologies</i> , 2021, 67, 102597.	2.7	6
29	Preferences of German Consumers for Meat Products Blended with Plant-Based Proteins. <i>Sustainability</i> , 2021, 13, 650.	1.6	24
30	Discrete Choice Analysis of Consumer Preferences for Meat Hybrids – Findings from Germany and Belgium. <i>Foods</i> , 2021, 10, 71.	1.9	25
31	Consumer preferences for meat blended with plant proteins – Empirical findings from Belgium. <i>Future Foods</i> , 2021, 4, 100088.	2.4	17
32	Estimation of the economy of heterotrophic microalgae- and insect-based food waste utilization processes. <i>Waste Management</i> , 2020, 102, 198-203.	3.7	35
33	Bio-refinery of <i>Chlorella sorokiniana</i> with pulsed electric field pre-treatment. <i>Bioresource Technology</i> , 2020, 301, 122743.	4.8	33
34	Utilizing honeybee drone brood as a protein source for food products: Life cycle assessment of apiculture in Germany. <i>Resources, Conservation and Recycling</i> , 2020, 154, 104576.	5.3	19
35	Modularity of insect production and processing as a path to efficient and sustainable food waste treatment. <i>Journal of Cleaner Production</i> , 2020, 248, 119248.	4.6	43
36	Environmental sustainability issues for western food production. , 2020, , 173-200.		1

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37	High-pressure processing of usually discarded dry aged beef trimmings for subsequent processing. <i>Meat Science</i> , 2020, 170, 108241.	2.7	15
38	Editorial: Conversion of organic waste-to-food and feed. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 26, 100394.	3.2	2
39	Pulsed electric field-treated insects and algae as future food ingredients. , 2020, , 247-266.		8
40	Bio-refinery of insects with Pulsed electric field pre-treatment. <i>Innovative Food Science and Emerging Technologies</i> , 2020, 64, 102403.	2.7	35
41	Life cycle assessment of specific organic waste-based bioeconomy approaches. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 23, 50-54.	3.2	10
42	Sustainable extraction of valuable components from <i>Spirulina</i> assisted by pulsed electric fields technology. <i>Algal Research</i> , 2020, 48, 101914.	2.4	66
43	Insect margarine: Processing, sustainability and design. <i>Journal of Cleaner Production</i> , 2020, 264, 121670.	4.6	40
44	High-moisture extrusion with insect and soy protein concentrates: cutting properties of meat analogues under insect content and barrel temperature variations. <i>Journal of Insects As Food and Feed</i> , 2019, 5, 29-34.	2.1	29
45	Nutritional Sustainability Inside Marketing Sustainability as an Inherent Ingredient. <i>Frontiers in Nutrition</i> , 2019, 6, 84.	1.6	6
46	Emerging Technologies of Meat Processing. , 2019, , 181-205.		5
47	A Path From Sustainable Nutrition to Nutritional Sustainability of Complex Food Systems. <i>Frontiers in Nutrition</i> , 2019, 6, 39.	1.6	41
48	Sustainable use of <i>Hermetia illucens</i> insect biomass for feed and food: Attributional and consequential life cycle assessment. <i>Resources, Conservation and Recycling</i> , 2019, 144, 285-296.	5.3	231
49	Neural network, blockchain, and modular complex system: The evolution of cyber-physical systems for material flow analysis and life cycle assessment. <i>Resources, Conservation and Recycling</i> , 2018, 133, 229-230.	5.3	19
50	Structure design of insect-based meat analogs with high-moisture extrusion. <i>Journal of Food Engineering</i> , 2018, 229, 83-85.	2.7	78
51	Spatio-Temporal Differentiation of Life Cycle Assessment Results for Average Perennial Crop Farm: A Case Study of Peruvian Cocoa Progression and Deforestation Issues. <i>Journal of Industrial Ecology</i> , 2018, 22, 1378-1388.	2.8	18
52	Agri-Food Waste Streams Utilization for Development of More Sustainable Food Substitutes. , 2018, , 145-155.		7
53	Autotrophic and heterotrophic microalgae and cyanobacteria cultivation for food and feed: life cycle assessment. <i>Bioresource Technology</i> , 2017, 245, 162-170.	4.8	197
54	Life cycle assessment of emerging technologies: The case of milk ultra-high pressure homogenisation. <i>Journal of Cleaner Production</i> , 2017, 142, 2209-2217.	4.6	45

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55	Pilot scale thermal and alternative pasteurization of tomato and watermelon juice: An energy comparison and life cycle assessment. <i>Journal of Cleaner Production</i> , 2017, 141, 514-525.	4.6	81
56	Regionalized Input-Output Life Cycle Sustainability Assessment: Food Production Case Study. <i>Ecoproduction</i> , 2017, , 959-968.	0.8	0
57	Spatiotemporal Tools for Regional Low-Carbon Development: Linking LCA and GIS to Assess Clusters of GHG Emissions from Cocoa Farming in Peru. <i>Ecoproduction</i> , 2017, , 969-980.	0.8	1
58	Measuring Relative Sustainability of Regions Using Regional Sustainability Assessment Methodology. <i>Geographical Analysis</i> , 2016, 48, 391-410.	1.9	12
59	Sustainability of insect use for feed and food: Life Cycle Assessment perspective. <i>Journal of Cleaner Production</i> , 2016, 137, 741-751.	4.6	259
60	Sustainability and regions: sustainability assessment in regional perspective. <i>Regional Science Policy and Practice</i> , 2015, 7, 163-186.	0.8	24
61	Sustainable plants in urban parks: A life cycle analysis of traditional and alternative lawns in Georgia, USA. <i>Landscape and Urban Planning</i> , 2014, 122, 140-151.	3.4	34
62	Innovative Technologies of Postoperational Mining Landscapes Management as a Key For Sustainable Development Achievement. , 2011, , .		1