

David C Denkenberger

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,412
citations

279701

23
h-index

206029

48
g-index

56
all docs

56
docs citations

56
times ranked

1609
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic fat from petroleum as a resilient food for global catastrophes: Preliminary techno-economic assessment and technology roadmap. <i>Chemical Engineering Research and Design</i> , 2022, 177, 255-272.	2.7	7
2	Rapid repurposing of pulp and paper mills, biorefineries, and breweries for lignocellulosic sugar production in global food catastrophes. <i>Food and Bioproducts Processing</i> , 2022, 131, 22-39.	1.8	13
3	Nutrition in Abrupt Sunlight Reduction Scenarios: Envisioning Feasible Balanced Diets on Resilient Foods. <i>Nutrients</i> , 2022, 14, 492.	1.7	4
4	Solar distillation meets the real world: a review of solar stills purifying real wastewater and seawater. <i>Environmental Science and Pollution Research</i> , 2022, 29, 22860-22884.	2.7	15
5	A review on carbonized natural green flora for solar desalination. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112121.	8.2	40
6	Long term cost-effectiveness of resilient foods for global catastrophes compared to artificial general intelligence safety. <i>International Journal of Disaster Risk Reduction</i> , 2022, 73, 102798.	1.8	2
7	Finite Difference Heat Exchanger Model: Flow Maldistribution with Thermal Coupling. <i>Heat Transfer Engineering</i> , 2021, 42, 889-903.	1.2	3
8	Potential of microbial protein from hydrogen for preventing mass starvation in catastrophic scenarios. <i>Sustainable Production and Consumption</i> , 2021, 25, 234-247.	5.7	37
9	Food in space from hydrogen-oxidizing bacteria. <i>Acta Astronautica</i> , 2021, 180, 260-265.	1.7	21
10	U.S. Potential of Sustainable Backyard Distributed Animal and Plant Protein Production during and after Pandemics. <i>Sustainability</i> , 2021, 13, 5067.	1.6	9
11	Long-term cost-effectiveness of interventions for loss of electricity/industry compared to artificial general intelligence safety. <i>European Journal of Futures Research</i> , 2021, 9, .	1.5	4
12	Global distribution of forest classes and leaf biomass for use as alternative foods to minimize malnutrition. , 2021, 7, 128.	0.5	3
13	Expanded Microchannel Heat Exchanger: Finite Difference Modeling. <i>Designs</i> , 2021, 5, 58.	1.3	1
14	Potential of microbial electrosynthesis for contributing to food production using CO2 during global agriculture-inhibiting disasters. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100139.	2.1	4
15	Chemical synthesis of food from CO2 for space missions and food resilience. <i>Journal of CO2 Utilization</i> , 2021, 53, 101726.	3.3	15
16	Classification of global catastrophic risks connected with artificial intelligence. <i>AI and Society</i> , 2020, 35, 147-163.	3.1	37
17	Accumulating evidence using crowdsourcing and machine learning: A living bibliography about existential risk and global catastrophic risk. <i>Futures</i> , 2020, 116, 102508.	1.4	5
18	Scaling of greenhouse crop production in low sunlight scenarios. <i>Science of the Total Environment</i> , 2020, 707, 136012.	3.9	26

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19	Effect of CuO, MoO ₃ and ZnO nanomaterial coated absorbers for clean water production. SN Applied Sciences, 2020, 2, 1.	1.5	8
20	Expanded Microchannel Heat Exchanger: Nondestructive Evaluation. Heat Transfer Engineering, 2019, 40, 1671-1679.	1.2	2
21	Global Solutions vs. Local Solutions for the AI Safety Problem. Big Data and Cognitive Computing, 2019, 3, 16.	2.9	5
22	Preliminary Automated Determination of Edibility of Alternative Foods: Non-Targeted Screening for Toxins in Red Maple Leaf Concentrate. Plants, 2019, 8, 110.	1.6	18
23	Food without sun: price and life-saving potential. Foresight, 2019, 21, 118-129.	1.2	22
24	A review of efficient high productivity solar stills. Renewable and Sustainable Energy Reviews, 2019, 101, 197-220.	8.2	113
25	Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system. Applied Thermal Engineering, 2019, 148, 1416-1424.	3.0	66
26	Solar radiation on south-facing inclined surfaces under different climatic zones in India. Environmental Progress and Sustainable Energy, 2019, 38, e13050.	1.3	7
27	Comparative Analysis of Water Quality of Different Types of Feed Water in Solar Energy Based Desalting System. , 2019, , 439-456.		0
28	Surviving global risks through the preservation of humanity's data on the Moon. Acta Astronautica, 2018, 146, 161-170.	1.7	6
29	Global catastrophic and existential risks communication scale. Futures, 2018, 102, 27-38.	1.4	28
30	Interventions that may prevent or mollify supervolcanic eruptions. Futures, 2018, 102, 51-62.	1.4	11
31	Cost-effectiveness of interventions for alternate food in the United States to address agricultural catastrophes. International Journal of Disaster Risk Reduction, 2018, 27, 278-289.	1.8	17
32	Micronutrient Availability in Alternative Foods During Agricultural Catastrophes. Agriculture (Switzerland), 2018, 8, 169.	1.4	11
33	Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation. Journal of Cleaner Production, 2018, 195, 1149-1161.	4.6	79
34	Design Optimization of Polymer Heat Exchanger for Automated Household-Scale Solar Water Pasteurizer. Designs, 2018, 2, 11.	1.3	6
35	A National Pragmatic Safety Limit for Nuclear Weapon Quantities. Safety, 2018, 4, 25.	0.9	11
36	Feeding everyone if the sun is obscured and industry is disabled. International Journal of Disaster Risk Reduction, 2017, 21, 284-290.	1.8	24

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37	Performance enhancement of solar still through efficient heat exchange mechanism – A review. Applied Thermal Engineering, 2017, 114, 815-836.	3.0	96
38	Performance analysis of –type solar still with tilt wick and effect of wick coverage. Cogent Engineering, 2017, 4, 1419791.	1.1	8
39	Cost-Effectiveness of Interventions for Alternate Food to Address Agricultural Catastrophes Globally. International Journal of Disaster Risk Science, 2016, 7, 205-215.	1.3	25
40	Augmentation of distillate yield in –type inclined wick solar still with cotton gauze cooling under regenerative effect. Cogent Engineering, 2016, 3, 1202476.	1.1	11
41	Productivity enhancements of compound parabolic concentrator tubular solar stills. Renewable Energy, 2016, 88, 391-400.	4.3	150
42	Effect of heat removal on tubular solar desalting system. Desalination, 2016, 379, 24-33.	4.0	82
43	Feeding everyone: Solving the food crisis in event of global catastrophes that kill crops or obscure the sun. Futures, 2015, 72, 57-68.	1.4	47
44	Isolated refuges for surviving global catastrophes. Futures, 2015, 72, 45-56.	1.4	40
45	Resilience to global food supply catastrophes. Environment Systems and Decisions, 2015, 35, 301-313.	1.9	44
46	Experimental study on a parabolic concentrator assisted solar desalting system. Energy Conversion and Management, 2015, 105, 665-674.	4.4	75
47	Effect of air flow on –type solar still with cotton gauze cooling. Desalination, 2014, 337, 1-5.	4.0	86
48	The augmentation of distillate yield by using concentrator coupled solar still with phase change material. Desalination, 2013, 314, 189-192.	4.0	172
49	Effect of water and air flow on concentric tubular solar water desalting system. Applied Energy, 2013, 103, 109-115.	5.1	140
50	Optimization of specific rating for wind turbine arrays coupled to compressed air energy storage. Applied Energy, 2012, 96, 222-234.	5.1	61
51	An experimental study on a hemispherical solar still. Desalination, 2012, 286, 342-348.	4.0	225
52	Baseload wind energy: modeling the competition between gas turbines and compressed air energy storage for supplemental generation. Energy Policy, 2007, 35, 1474-1492.	4.2	200
53	The influence of large-scale wind power on global climate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16115-16120.	3.3	255
54	Review of potential high-leverage and inexpensive mitigations for reducing risk in epidemics and pandemics. Journal of Global Health Reports, 0, 4, .	1.0	7

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55	Feeding Everyone: Solving the Food Crisis in Event of Global Catastrophes that Kill Crops or Obscure the Sun. SSRN Electronic Journal, 0, , .	0.4	0