Benyamin Khoshnevisan

List of Publications by Year
in descending order

76 papers	4,057 citations	81900 39 h-index	118850 62 g-index
81 all docs	81 docs citations	81 times ranked	3652 citing authors

#	Article	IF	Citations
1	Evaluation and optimization of engine performance and exhaust emissions of a diesel engine fueled with diestrol blends. Environmental Progress and Sustainable Energy, 2023, 42, .	2.3	2
2	Bridging to circular bioeconomy through a novel biorefinery platform on a wastewater treatment plant. Renewable and Sustainable Energy Reviews, 2022, 154, 111895.	16.4	17
3	Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. Renewable and Sustainable Energy Reviews, 2022, 156, 111975.	16.4	69
4	From renewable energy to sustainable protein sources: Advancement, challenges, and future roadmaps. Renewable and Sustainable Energy Reviews, 2022, 157, 112041.	16.4	24
5	Introducing new monitoring indices from the headspace of biogas digester via e-nose: A case study. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110769.	5.0	4
6	Going beyond conventional wastewater treatment plants within circular bioeconomy concept â€“ a sustainability assessment study. Water Science and Technology, 2022, 85, 1878-1903.	2.5	6
7	Restriction of biosolids returning to land: Fate of antibiotic resistance genes in soils after long-term biosolids application. Environmental Pollution, 2022, 301, 119029.	7.5	3
8	Shallow groundwater fluctuation: An ignored soil N loss pathway from cropland. Science of the Total Environment, 2022, 828, 154554.	8.0	11
9	Comprehensive effects of integrated management on reducing nitrogen and phosphorus loss under legume-rice rotations. Journal of Cleaner Production, 2022, 361, 132031.	9.3	11
10	To what extent do waste management strategies need adaptation to post-COVID-19?. Science of the Total Environment, 2022, 837, 155829.	8.0	32
11	Bioconversion of wastewater to single cell protein by methanotrophic bacteria. Bioresource Technology, 2021, 320, 124351.	9.6	57
12	Environmental life cycle assessment of different biorefinery platforms valorizing olive wastes to biofuel, phosphate salts, natural antioxidant, and an oxygenated fuel additive (triacetin). Journal of Cleaner Production, 2021, 278, 123916.	9.3	50
13	An integer superstructure model to find a sustainable biorefinery platform for valorizing household waste to bioenergy, microbial protein, and biochemicals. Journal of Cleaner Production, 2021, 278, 123986.	9.3	11
14	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. Renewable and Sustainable Energy Reviews, 2021, 135, 110033.	16.4	176
15	Variations in soil nutrient dynamics and their composition in rice under integrated rice-crab co-culture system. Journal of Cleaner Production, 2021, 281, 125222.	9.3	24
16	Meta-analysis of anaerobic co-digestion of livestock manure in last decade: Identification of synergistic effect and optimization synergy range. Applied Energy, 2021, 282, 116128.	10.1	17
17	Joint analytical hierarchy and metaheuristic optimization as a framework to mitigate fertilizer-based pollution. Journal of Environmental Management, 2021, 278, 111493.	7.8	8
18	Optimal rice-crab co-culture system as a new paradigm to air-water-food nexus sustainability. Journal of Cleaner Production, 2021, 291, 125936.	9.3	17

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19	Improving anaerobic digestion of chicken manure under optimized biochar supplementation strategies. Bioresource Technology, 2021, 325, 124697.	9.6	43
20	A critical review on the development stage of biorefinery systems towards the management of apple processing-derived waste. Renewable and Sustainable Energy Reviews, 2021, 143, 110972.	16.4	68
21	Could biological biogas upgrading be a sustainable substitution for water scrubbing technology? A case study in Denmark. Energy Conversion and Management, 2021, 245, 114550.	9.2	29
22	Upcycling the anaerobic digestion streams in a bioeconomy approach: A review. Renewable and Sustainable Energy Reviews, 2021, 151, 111635.	16.4	24
23	Water footprint and life cycle assessment of edible onion production - A case study in Iran. Scientia Horticulturae, 2020, 261, 108925.	3.6	15
24	Environmental life cycle assessment of different biorefinery platforms valorizing municipal solid waste to bioenergy, microbial protein, lactic and succinic acid. Renewable and Sustainable Energy Reviews, 2020, 117, 109493.	16.4	136
25	Life cycle assessment analysis of an ultrasound-assisted system converting waste cooking oil into biodiesel. Renewable Energy, 2020, 151, 1352-1364.	8.9	44
26	How exothermic characteristics of rice straw during anaerobic digestion affects net energy production. Energy, 2020, 212, 118772.	8.8	3
27	How long-term excessive manure application affects soil phosphorous species and risk of phosphorous loss in fluvo-aquic soil. Environmental Pollution, 2020, 266, 115304.	7.5	30
28	Analysis of revolution in decentralized biogas facilities caused by transition in Chinese rural areas. Renewable and Sustainable Energy Reviews, 2020, 133, 110133.	16.4	15
29	A Critical Review on Advancement and Challenges of Biochar Application in Paddy Fields: Environmental and Life Cycle Cost Analysis. Processes, 2020, 8, 1275.	2.8	46
30	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. Journal of Cleaner Production, 2020, 270, 122462.	9.3	207
31	Effect of ammonia on anaerobic digestion of municipal solid waste: Inhibitory performance, bioaugmentation and microbiome functional reconstruction. Chemical Engineering Journal, 2020, 401, 126159.	12.7	76
32	The reactive nitrogen loss and GHG emissions from a maize system after a long-term livestock manure incorporation in the North China Plain. Science of the Total Environment, 2020, 720, 137558.	8.0	39
33	Human waste anaerobic digestion as a promising low-carbon strategy: Operating performance, microbial dynamics and environmental footprint. Journal of Cleaner Production, 2020, 256, 120414.	9.3	26
34	A multi-criteria evolutionary-based algorithm as a regional scale decision support system to optimize nitrogen consumption rate; A case study in North China plain. Journal of Cleaner Production, 2020, 256, 120213.	9.3	30
35	Life cycle assessment of anaerobic digestion of pig manure coupled with different digestate treatment technologies. Environment International, 2020, 137, 105522.	10.0	92
36	Coupling electrochemical ammonia extraction and cultivation of methane oxidizing bacteria for production of microbial protein. Journal of Environmental Management, 2020, 265, 110560.	7.8	21

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37	Urban biowaste valorization by coupling anaerobic digestion and single cell protein production. Bioresource Technology, 2019, 290, 121743.	9.6	65
38	Methane oxidising bacteria to upcycle effluent streams from anaerobic digestion of municipal biowaste. Journal of Environmental Management, 2019, 251, 109590.	7.8	33
39	Environmental impacts of biogas production from grass: Role of co-digestion and pretreatment at harvesting time. Applied Energy, 2019, 252, 113467.	10.1	40
40	Acclimatization contributes to stable anaerobic digestion of organic fraction of municipal solid waste under extreme ammonia levels: Focusing on microbial community dynamics. Bioresource Technology, 2019, 286, 121376.	9.6	89
41	Pistachio (Pistachia vera) wastes valorization: Enhancement of biodiesel oxidation stability using hull extracts of different varieties. Journal of Cleaner Production, 2018, 185, 852-859.	9.3	41
42	Biorefineries: Focusing on a Closed Cycle Approach with Biogas as the Final Step. Biofuel and Biorefinery Technologies, 2018, , 277-303.	0.3	3
43	Waste Management Strategies: Life Cycle Assessment (LCA) Approach. Biofuel and Biorefinery Technologies, 2018, , 305-331.	0.3	0
44	Life cycle assessment of different strategies for energy and nutrient recovery from source sorted organic fraction of household waste. Journal of Cleaner Production, 2018, 180, 360-374.	9.3	76
45	Well-to-wheel life cycle assessment of Eruca Sativa-based biorefinery. Renewable Energy, 2018, 117, 135-149.	8.9	28
46	Process performance and modelling of anaerobic digestion using source-sorted organic household waste. Bioresource Technology, 2018, 247, 486-495.	9.6	52
47	Neat diesel beats waste-oriented biodiesel from the exergoeconomic and exergoenvironmental point of views. Energy Conversion and Management, 2017, 148, 1-15.	9.2	136
48	Joint data envelopment analysis and life cycle assessment for environmental impact reduction in broiler production systems. Energy, 2017, 127, 768-774.	8.8	35
49	Response to â€œPrognostication of energy use and environmental impacts for recycle system of municipal solid waste managementâ€• Journal of Cleaner Production, 2017, 164, 1376-1379.	9.3	2
50	A review on prospects and challenges of biological H2S removal from biogas with focus on biotrickling filtration and microaerobic desulfurization. Biofuel Research Journal, 2017, 4, 741-750.	13.3	66
51	Sustainability evaluation of pasteurized milk production with a life cycle assessment approach: An Iranian case study. Science of the Total Environment, 2016, 562, 614-627.	8.0	41
52	Biogas and bioethanol production from pinewood pre-treated with steam explosion and N-methylmorpholine-N-oxide (NMMO): A comparative life cycle assessment approach. Energy, 2016, 114, 935-950.	8.8	44
53	Comparative efficacy of ANN and ANFIS models in estimating biosurfactant production produced by Klebseilla sp. FKOD36. Stochastic Environmental Research and Risk Assessment, 2016, 30, 353-363.	4.0	3
54	Investigating energy balance and carbon footprint in saffron cultivation â€“ a case study in Iran. Journal of Cleaner Production, 2016, 115, 162-171.	9.3	33

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55	Energy efficiency and greenhouse gas emissions during transition to organic and reduced-input practices: Student farm case study. Ecological Engineering, 2016, 88, 186-194.	3.6	36
56	A clustering model based on an evolutionary algorithm for better energy use in crop production. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1921-1935.	4.0	29
57	A multi-objective evolutionary algorithm for energy management of agricultural systemsâ€"A case study in Iran. Renewable and Sustainable Energy Reviews, 2015, 44, 457-465.	16.4	49
58	Comparative life cycle assessment of different municipal solid waste management scenarios in Iran. Renewable and Sustainable Energy Reviews, 2015, 51, 886-898.	16.4	88
59	Developing a fuzzy clustering model for better energy use in farm management systems. Renewable and Sustainable Energy Reviews, 2015, 48, 27-34.	16.4	28
60	Decreasing environmental impacts of cropping systems using life cycle assessment (LCA) and multi-objective genetic algorithm. Journal of Cleaner Production, 2015, 86, 67-77.	9.3	66
61	Comparison of energy consumption and GHG emissions of open field and greenhouse strawberry production. Renewable and Sustainable Energy Reviews, 2014, 29, 316-324.	16.4	90
62	Environmental impact assessment of tomato and cucumber cultivation in greenhouses using life cycle assessment and adaptive neuro-fuzzy inference system. Journal of Cleaner Production, 2014, 73, 183-192.	9.3	148
63	Evaluation of traditional and consolidated rice farms in Guilan Province, Iran, using life cycle assessment and fuzzy modeling. Science of the Total Environment, 2014, 481, 242-251.	8.0	76
64	Development of an intelligent system based on ANFIS for predicting wheat grain yield on the basis of energy inputs. Information Processing in Agriculture, 2014, 1, 14-22.	4.1	87
65	Application of artificial neural networks for prediction of output energy and GHG emissions in potato production in Iran. Agricultural Systems, 2014, 123, 120-127.	6.1	63
66	Application of multi-layer adaptive neuro-fuzzy inference system for estimation of greenhouse strawberry yield. Measurement: Journal of the International Measurement Confederation, 2014, 47, 903-910.	5.0	50
67	Prediction of potato yield based on energy inputs using multi-layer adaptive neuro-fuzzy inference system. Measurement: Journal of the International Measurement Confederation, 2014, 47, 521-530.	5.0	58
68	A comparative study between fuzzy linear regression and support vector regression for global solar radiation prediction in Iran. Solar Energy, 2014, 109, 135-143.	6.1	63
69	Potential of radial basis function based support vector regression for global solar radiation prediction. Renewable and Sustainable Energy Reviews, 2014, 39, 1005-1011.	16.4	139
70	Potential of radial basis function-based support vector regression for apple disease detection. Measurement: Journal of the International Measurement Confederation, 2014, 55, 512-519.	5.0	100
71	Prognostication of environmental indices in potato production using artificial neural networks. Journal of Cleaner Production, 2013, 52, 402-409.	9.3	71
72	Reduction of CO2 emission by improving energy use efficiency ofÂgreenhouse cucumber production using DEA approach. Energy, 2013, 55, 676-682.	8.8	113

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73	Applying data envelopment analysis approach to improve energy efficiency and reduce GHG (greenhouse gas) emission of wheat production. Energy, 2013, 58, 588-593.	8.8	97
74	Environmental impact assessment of open field and greenhouse strawberry production. European Journal of Agronomy, 2013, 50, 29-37.	4.1	97
75	Modeling of energy consumption and GHG (greenhouse gas) emissions in wheat production in Esfahan province of Iran using artificial neural networks. Energy, 2013, 52, 333-338.	8.8	165
76	Regression modeling of field emissions in wheat production using a life cycle assessment (LCA) approach. Electronic Journal of Energy & Environment, 2013, 1, .	0.3	2