

Benyamin Khoshnevisan

List of Publications by Year in descending order

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76
papers

4,057
citations

81743

39
h-index

118652

62
g-index

81
all docs

81
docs citations

81
times ranked

3652
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. <i>Journal of Cleaner Production</i> , 2020, 270, 122462.	4.6	207
2	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110033.	8.2	176
3	Modeling of energy consumption and GHG (greenhouse gas) emissions in wheat production in Esfahan province of Iran using artificial neural networks. <i>Energy</i> , 2013, 52, 333-338.	4.5	165
4	Environmental impact assessment of tomato and cucumber cultivation in greenhouses using life cycle assessment and adaptive neuro-fuzzy inference system. <i>Journal of Cleaner Production</i> , 2014, 73, 183-192.	4.6	148
5	Potential of radial basis function based support vector regression for global solar radiation prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1005-1011.	8.2	139
6	Neat diesel beats waste-oriented biodiesel from the exergoeconomic and exergoenvironmental point of views. <i>Energy Conversion and Management</i> , 2017, 148, 1-15.	4.4	136
7	Environmental life cycle assessment of different biorefinery platforms valorizing municipal solid waste to bioenergy, microbial protein, lactic and succinic acid. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 117, 109493.	8.2	136
8	Reduction of CO ₂ emission by improving energy use efficiency of a greenhouse cucumber production using DEA approach. <i>Energy</i> , 2013, 55, 676-682.	4.5	113
9	Potential of radial basis function-based support vector regression for apple disease detection. Measurement: <i>Journal of the International Measurement Confederation</i> , 2014, 55, 512-519.	2.5	100
10	Applying data envelopment analysis approach to improve energy efficiency and reduce GHG (greenhouse gas) emission of wheat production. <i>Energy</i> , 2013, 58, 588-593.	4.5	97
11	Environmental impact assessment of open field and greenhouse strawberry production. <i>European Journal of Agronomy</i> , 2013, 50, 29-37.	1.9	97
12	Life cycle assessment of anaerobic digestion of pig manure coupled with different digestate treatment technologies. <i>Environment International</i> , 2020, 137, 105522.	4.8	92
13	Comparison of energy consumption and GHG emissions of open field and greenhouse strawberry production. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 316-324.	8.2	90
14	Acclimatization contributes to stable anaerobic digestion of organic fraction of municipal solid waste under extreme ammonia levels: Focusing on microbial community dynamics. <i>Bioresource Technology</i> , 2019, 286, 121376.	4.8	89
15	Comparative life cycle assessment of different municipal solid waste management scenarios in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 886-898.	8.2	88
16	Development of an intelligent system based on ANFIS for predicting wheat grain yield on the basis of energy inputs. <i>Information Processing in Agriculture</i> , 2014, 1, 14-22.	2.9	87
17	Evaluation of traditional and consolidated rice farms in Guilan Province, Iran, using life cycle assessment and fuzzy modeling. <i>Science of the Total Environment</i> , 2014, 481, 242-251.	3.9	76
18	Life cycle assessment of different strategies for energy and nutrient recovery from source sorted organic fraction of household waste. <i>Journal of Cleaner Production</i> , 2018, 180, 360-374.	4.6	76

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19	Effect of ammonia on anaerobic digestion of municipal solid waste: Inhibitory performance, bioaugmentation and microbiome functional reconstruction. <i>Chemical Engineering Journal</i> , 2020, 401, 126159.	6.6	76
20	Prognostication of environmental indices in potato production using artificial neural networks. <i>Journal of Cleaner Production</i> , 2013, 52, 402-409.	4.6	71
21	Exergetic sustainability analysis of municipal solid waste treatment systems: A systematic critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 156, 111975.	8.2	69
22	A critical review on the development stage of biorefinery systems towards the management of apple processing-derived waste. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110972.	8.2	68
23	Decreasing environmental impacts of cropping systems using life cycle assessment (LCA) and multi-objective genetic algorithm. <i>Journal of Cleaner Production</i> , 2015, 86, 67-77.	4.6	66
24	A review on prospects and challenges of biological H ₂ S removal from biogas with focus on biotrickling filtration and microaerobic desulfurization. <i>Biofuel Research Journal</i> , 2017, 4, 741-750.	7.2	66
25	Urban biowaste valorization by coupling anaerobic digestion and single cell protein production. <i>Bioresource Technology</i> , 2019, 290, 121743.	4.8	65
26	Application of artificial neural networks for prediction of output energy and GHG emissions in potato production in Iran. <i>Agricultural Systems</i> , 2014, 123, 120-127.	3.2	63
27	A comparative study between fuzzy linear regression and support vector regression for global solar radiation prediction in Iran. <i>Solar Energy</i> , 2014, 109, 135-143.	2.9	63
28	Prediction of potato yield based on energy inputs using multi-layer adaptive neuro-fuzzy inference system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 47, 521-530.	2.5	58
29	Bioconversion of wastewater to single cell protein by methanotrophic bacteria. <i>Bioresource Technology</i> , 2021, 320, 124351.	4.8	57
30	Process performance and modelling of anaerobic digestion using source-sorted organic household waste. <i>Bioresource Technology</i> , 2018, 247, 486-495.	4.8	52
31	Application of multi-layer adaptive neuro-fuzzy inference system for estimation of greenhouse strawberry yield. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 47, 903-910.	2.5	50
32	Environmental life cycle assessment of different biorefinery platforms valorizing olive wastes to biofuel, phosphate salts, natural antioxidant, and an oxygenated fuel additive (triacetin). <i>Journal of Cleaner Production</i> , 2021, 278, 123916.	4.6	50
33	A multi-objective evolutionary algorithm for energy management of agricultural systems—A case study in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 457-465.	8.2	49
34	A Critical Review on Advancement and Challenges of Biochar Application in Paddy Fields: Environmental and Life Cycle Cost Analysis. <i>Processes</i> , 2020, 8, 1275.	1.3	46
35	Biogas and bioethanol production from pinewood pre-treated with steam explosion and N-methylmorpholine-N-oxide (NMMO): A comparative life cycle assessment approach. <i>Energy</i> , 2016, 114, 935-950.	4.5	44
36	Life cycle assessment analysis of an ultrasound-assisted system converting waste cooking oil into biodiesel. <i>Renewable Energy</i> , 2020, 151, 1352-1364.	4.3	44

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37	Improving anaerobic digestion of chicken manure under optimized biochar supplementation strategies. <i>Bioresource Technology</i> , 2021, 325, 124697.	4.8	43
38	Sustainability evaluation of pasteurized milk production with a life cycle assessment approach: An Iranian case study. <i>Science of the Total Environment</i> , 2016, 562, 614-627.	3.9	41
39	Pistachio (<i>Pistachia vera</i>) wastes valorization: Enhancement of biodiesel oxidation stability using hull extracts of different varieties. <i>Journal of Cleaner Production</i> , 2018, 185, 852-859.	4.6	41
40	Environmental impacts of biogas production from grass: Role of co-digestion and pretreatment at harvesting time. <i>Applied Energy</i> , 2019, 252, 113467.	5.1	40
41	The reactive nitrogen loss and GHG emissions from a maize system after a long-term livestock manure incorporation in the North China Plain. <i>Science of the Total Environment</i> , 2020, 720, 137558.	3.9	39
42	Energy efficiency and greenhouse gas emissions during transition to organic and reduced-input practices: Student farm case study. <i>Ecological Engineering</i> , 2016, 88, 186-194.	1.6	36
43	Joint data envelopment analysis and life cycle assessment for environmental impact reduction in broiler production systems. <i>Energy</i> , 2017, 127, 768-774.	4.5	35
44	Investigating energy balance and carbon footprint in saffron cultivation – a case study in Iran. <i>Journal of Cleaner Production</i> , 2016, 115, 162-171.	4.6	33
45	Methane oxidising bacteria to upcycle effluent streams from anaerobic digestion of municipal biowaste. <i>Journal of Environmental Management</i> , 2019, 251, 109590.	3.8	33
46	To what extent do waste management strategies need adaptation to post-COVID-19?. <i>Science of the Total Environment</i> , 2022, 837, 155829.	3.9	32
47	How long-term excessive manure application affects soil phosphorous species and risk of phosphorous loss in fluvo-aquic soil. <i>Environmental Pollution</i> , 2020, 266, 115304.	3.7	30
48	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. <i>Journal of Cleaner Production</i> , 2020, 256, 120213.	4.6	30
49	A clustering model based on an evolutionary algorithm for better energy use in crop production. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 1921-1935.	1.9	29
50	Could biological biogas upgrading be a sustainable substitution for water scrubbing technology? A case study in Denmark. <i>Energy Conversion and Management</i> , 2021, 245, 114550.	4.4	29
51	Developing a fuzzy clustering model for better energy use in farm management systems. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 48, 27-34.	8.2	28
52	Well-to-wheel life cycle assessment of <i>Eruca Sativa</i> -based biorefinery. <i>Renewable Energy</i> , 2018, 117, 135-149.	4.3	28
53	Human waste anaerobic digestion as a promising low-carbon strategy: Operating performance, microbial dynamics and environmental footprint. <i>Journal of Cleaner Production</i> , 2020, 256, 120414.	4.6	26
54	Variations in soil nutrient dynamics and their composition in rice under integrated rice-crab co-culture system. <i>Journal of Cleaner Production</i> , 2021, 281, 125222.	4.6	24

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55	Upcycling the anaerobic digestion streams in a bioeconomy approach: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111635.	8.2	24
56	From renewable energy to sustainable protein sources: Advancement, challenges, and future roadmaps. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112041.	8.2	24
57	Coupling electrochemical ammonia extraction and cultivation of methane oxidizing bacteria for production of microbial protein. <i>Journal of Environmental Management</i> , 2020, 265, 110560.	3.8	21
58	Meta-analysis of anaerobic co-digestion of livestock manure in last decade: Identification of synergistic effect and optimization synergy range. <i>Applied Energy</i> , 2021, 282, 116128.	5.1	17
59	Optimal rice-crab co-culture system as a new paradigm to air-water-food nexus sustainability. <i>Journal of Cleaner Production</i> , 2021, 291, 125936.	4.6	17
60	Bridging to circular bioeconomy through a novel biorefinery platform on a wastewater treatment plant. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111895.	8.2	17
61	Water footprint and life cycle assessment of edible onion production - A case study in Iran. <i>Scientia Horticulturae</i> , 2020, 261, 108925.	1.7	15
62	Analysis of revolution in decentralized biogas facilities caused by transition in Chinese rural areas. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110133.	8.2	15
63	An integer superstructure model to find a sustainable biorefinery platform for valorizing household waste to bioenergy, microbial protein, and biochemicals. <i>Journal of Cleaner Production</i> , 2021, 278, 123986.	4.6	11
64	Shallow groundwater fluctuation: An ignored soil N loss pathway from cropland. <i>Science of the Total Environment</i> , 2022, 828, 154554.	3.9	11
65	Comprehensive effects of integrated management on reducing nitrogen and phosphorus loss under legume-rice rotations. <i>Journal of Cleaner Production</i> , 2022, 361, 132031.	4.6	11
66	Joint analytical hierarchy and metaheuristic optimization as a framework to mitigate fertilizer-based pollution. <i>Journal of Environmental Management</i> , 2021, 278, 111493.	3.8	8
67	Going beyond conventional wastewater treatment plants within circular bioeconomy concept – a sustainability assessment study. <i>Water Science and Technology</i> , 2022, 85, 1878-1903.	1.2	6
68	Introducing new monitoring indices from the headspace of biogas digester via e-nose: A case study. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 190, 110769.	2.5	4
69	Comparative efficacy of ANN and ANFIS models in estimating biosurfactant production produced by <i>Klebsiella</i> sp. FKOD36. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 353-363.	1.9	3
70	Biorefineries: Focusing on a Closed Cycle Approach with Biogas as the Final Step. <i>Biofuel and Biorefinery Technologies</i> , 2018, , 277-303.	0.1	3
71	How exothermic characteristics of rice straw during anaerobic digestion affects net energy production. <i>Energy</i> , 2020, 212, 118772.	4.5	3
72	Restriction of biosolids returning to land: Fate of antibiotic resistance genes in soils after long-term biosolids application. <i>Environmental Pollution</i> , 2022, 301, 119029.	3.7	3

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73	Response to "Prognostication of energy use and environmental impacts for recycle system of municipal solid waste management", Journal of Cleaner Production, 2017, 164, 1376-1379.	4.6	2
74	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
75	Evaluation and optimization of engine performance and exhaust emissions of a diesel engine fueled with diestrol blends. Environmental Progress and Sustainable Energy, 2023, 42, .	1.3	2
76	Waste Management Strategies: Life Cycle Assessment (LCA) Approach. Biofuel and Biorefinery Technologies, 2018, , 305-331.	0.1	0