

Hesam Kamyab

List of Publications by Year in descending order

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108
papers

5,917
citations

76031

42
h-index

97045

71
g-index

116
all docs

116
docs citations

116
times ranked

5597
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Equations to Predict the Concentration of Air Pollutants Indicators in Yazd City, Iran. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2024, 34, 38-47.	1.9	7
2	The fate of imazapyr herbicide in the soil amended with carbon sorbents. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 7561-7569.	2.9	7
3	Load-frequency control in an islanded microgrid PV/WT/FC/ESS using an optimal self-tuning fractional-order fuzzy controller. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71677-71688.	2.7	34
4	Stability and dynamic analysis of a grid-connected environmentally friendly photovoltaic energy system. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71701-71713.	2.7	4
5	Technical-economic framework for designing of water pumping system based on photovoltaic clean energy with water storage for drinking application. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71754-71765.	2.7	2
6	Application of Box-Behnken design to mineralization and color removal of palm oil mill effluent by electrocoagulation process. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71741-71753.	2.7	11
7	Transformation of hazardous sacred incense sticks ash waste into less toxic product by sequential approach prior to their disposal into the water bodies. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71766-71778.	2.7	13
8	Removing microplastics from wastewater using leading-edge treatment technologies: a solution to microplastic pollution—a review. <i>Bioprocess and Biosystems Engineering</i> , 2023, 46, 309-321.	1.7	18
9	Efficiency of carbon sorbents in mitigating polar herbicides leaching from tropical soil. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 251-260.	2.1	12
10	Sargassum myriocystum-mediated TiO ₂ -nanoparticles and their antimicrobial, larvicidal activities and enhanced photocatalytic degradation of various dyes. <i>Environmental Research</i> , 2022, 204, 112278.	3.7	42
11	Hybrid energy system optimization with battery storage for remote area application considering loss of energy probability and economic analysis. <i>Energy</i> , 2022, 239, 122303.	4.5	60
12	Nano- from nature to nurture: A comprehensive review on facets, trends, perspectives and sustainability of nanotechnology in the food sector. <i>Energy</i> , 2022, 240, 122732.	4.5	55
13	Effect of nanoparticles on the performance of polymer/surfactant flooding for enhanced oil recovery: A review. <i>Fuel</i> , 2022, 312, 122867.	3.4	107
14	Potential effect of SARS-CoV-2 on solar energy generation: Environmental dynamics and implications. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102027.	1.7	8
15	Review of the application of gasification and combustion technology and waste-to-energy technologies in sewage sludge treatment. <i>Fuel</i> , 2022, 316, 123199.	3.4	82
16	Recent Applications of the Electrocoagulation Process on Agro-Based Industrial Wastewater: A Review. <i>Sustainability</i> , 2022, 14, 1985.	1.6	32
17	Production and Characterization of a Novel Biosurfactant Molecule from <i>Bacillus safensis</i> YKS2 and Assessment of Its Efficiencies in Wastewater Treatment by a Directed Metagenomic Approach. <i>Sustainability</i> , 2022, 14, 2142.	1.6	23
18	Sustainable energy and digital currencies: challenges and future prospect. , 2022, 1, 26-32.		6

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19	The Content of Heavy Metals in Cigarettes and the Impact of Their Leachates on the Aquatic Ecosystem. Sustainability, 2022, 14, 4752.	1.6	16
20	SDS-Aluminum Oxide Nanofluid for Enhanced Oil Recovery: IFT, Adsorption, and Oil Displacement Efficiency. ACS Omega, 2022, 7, 14022-14030.	1.6	25
21	The effects of aeration and mixotrophy by acetate and pyruvate on the growth parameters in Scenedesmus obliquus. Biomass Conversion and Biorefinery, 2022, 12, 4611-4620.	2.9	6
22	The selectivity of electron acceptors for the removal of caffeine, gliclazide, and prazosin in an up-flow anaerobic sludge blanket (UASB) reactor. Chemosphere, 2022, 303, 134828.	4.2	16
23	Biodiesel production by single-step acid-catalysed transesterification of Jatropha oil under microwave heating with modelling and optimisation using response surface methodology. Fuel, 2022, 322, 124205.	3.4	39
24	Bio-efficacy of imidazolinones in weed control in a tropical paddy soil amended with optimized agrowaste-derived biochars. Chemosphere, 2022, 303, 134957.	4.2	13
25	Spotlighting graphene-based catalysts for the mitigation of environmentally hazardous pollutants to cleaner production: A review. Journal of Cleaner Production, 2022, 365, 132702.	4.6	48
26	The effects of caffeine, gliclazide, and prazosin on the performance and microbial diversity in an up-flow anaerobic sludge blanket (UASB) reactor. Biomass and Bioenergy, 2022, 163, 106511.	2.9	12
27	Optimal design of hybrid grid-connected photovoltaic/wind/battery sustainable energy system improving reliability, cost and emission. Energy, 2022, 257, 124679.	4.5	47
28	Deterministic and probabilistic multi-objective placement and sizing of wind renewable energy sources using improved spotted hyena optimizer. Journal of Cleaner Production, 2021, 286, 124941.	4.6	54
29	New hybrid meta-heuristic algorithm for reliable and cost-effective designing of photovoltaic/wind/fuel cell energy system considering load interruption probability. Journal of Cleaner Production, 2021, 278, 123406.	4.6	89
30	Carrier wave optimization for multi-level photovoltaic system to improvement of power quality in industrial environments based on Salp swarm algorithm. Environmental Technology and Innovation, 2021, 21, 101197.	3.0	23
31	Comparative evaluation of hybrid photovoltaic, wind, tidal and fuel cell clean system design for different regions with remote application considering cost. Journal of Cleaner Production, 2021, 283, 124207.	4.6	68
32	Fabrication of nanocomposites mediated from aluminium nanoparticles/Moringa oleifera gum activated carbon for effective photocatalytic removal of nitrate and phosphate in aqueous solution. Journal of Cleaner Production, 2021, 281, 124553.	4.6	60
33	Application of bioelectrochemical systems in wastewater treatment and hydrogen production. , 2021, , 31-44.		8
34	Assessment of carbon footprint from transportation, electricity, water, and waste generation: towards utilisation of renewable energy sources. Clean Technologies and Environmental Policy, 2021, 23, 183-201.	2.1	31
35	A GIS-based tool for the analysis of the distribution and abundance of Chilo sacchariphagus indicus under the influence of biotic and abiotic factors. Environmental Technology and Innovation, 2021, 21, 101357.	3.0	4
36	An experimental investigation on phytoremediation performance of water lettuce (<i>Pistia Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td 93, 1543-1553.	1.3	21

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37	Multi-criteria optimal design of hybrid clean energy system with battery storage considering off- and on-grid application. <i>Journal of Cleaner Production</i> , 2021, 290, 125808.	4.6	57
38	A proposed adoption model for green IT in manufacturing industries. <i>Journal of Cleaner Production</i> , 2021, 297, 126629.	4.6	26
39	Study of oil sorption behaviour of esterified oil palm empty fruit bunch (OPEFB) fibre and its kinetics and isotherm studies. <i>Environmental Technology and Innovation</i> , 2021, 22, 101397.	3.0	13
40	Current technologies for recovery of metals from industrial wastes: An overview. <i>Environmental Technology and Innovation</i> , 2021, 22, 101525.	3.0	91
41	A multi-criteria framework for designing of stand-alone and grid-connected photovoltaic, wind, battery clean energy system considering reliability and economic assessment. <i>Energy</i> , 2021, 224, 120154.	4.5	22
42	Recent advances on the removal of phosphorus in aquatic plant-based systems. <i>Environmental Technology and Innovation</i> , 2021, 24, 101933.	3.0	28
43	Investigating the effects of eleven key physicochemical factors on growth and lipid accumulation of <i>Chlorella</i> sp. as a feedstock for biodiesel production. <i>Journal of Biotechnology</i> , 2021, 340, 64-74.	1.9	26
44	A new intuitionistic fuzzy combinative distance-based assessment framework to assess low-carbon sustainable suppliers in the maritime sector. <i>Energy</i> , 2021, 237, 121500.	4.5	41
45	A Design Framework for an Integrated End-of-Life Vehicle Waste Management System in Malaysia. , 2021, , 305-319.		4
46	Bioremediation of hexavalent chromium-contaminated wastewater by <i>Bacillus thuringiensis</i> and <i>Staphylococcus capitis</i> isolated from tannery sediment. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 383-391.	2.9	26
47	Ultrasound wave assisted removal of Ceftriaxone sodium in aqueous media with novel nano composite g-C ₃ N ₄ /MWCNT/Bi ₂ WO ₆ based on CCD-RSM model. <i>Ultrasonics Sonochemistry</i> , 2020, 68, 104460.	3.8	48
48	Energizing the CO ₂ utilization by chemo-enzymatic approaches and potentiality of carbonic anhydrases: A review. <i>Journal of Cleaner Production</i> , 2020, 247, 119138.	4.6	90
49	Screening and evaluation of cellulytic fungal strains for saccharification and bioethanol production from rice residue. <i>Energy</i> , 2020, 190, 116422.	4.5	41
50	Green efforts to link the economy and infrastructure strategies in the context of sustainable development. <i>Energy</i> , 2020, 193, 116759.	4.5	42
51	Microbial lipolytic enzymes “ promising energy-efficient biocatalysts in bioremediation. <i>Energy</i> , 2020, 192, 116674.	4.5	85
52	A novel synthesis and characterization of polyhedral shaped amorphous iron oxide nanoparticles from incense sticks ash waste. <i>Environmental Technology and Innovation</i> , 2020, 20, 101089.	3.0	35
53	Effect of COVID-19 virus on reducing GHG emission and increasing energy generated by renewable energy sources: A brief study in Malaysian context. <i>Environmental Technology and Innovation</i> , 2020, 20, 101151.	3.0	68
54	Re-examining the environmental kuznets curve hypothesis in the economic community of West African states: A panel quantile regression approach. <i>Journal of Cleaner Production</i> , 2020, 276, 124247.	4.6	95

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55	Meta-heuristic matrix mothâ€™flame algorithm for optimal reconfiguration of distribution networks and placement of solar and wind renewable sources considering reliability. Environmental Technology and Innovation, 2020, 20, 101118.	3.0	64
56	Advances in biogas valorization and utilization systems: A comprehensive review. Journal of Cleaner Production, 2020, 273, 123052.	4.6	106
57	Modern enabling techniques and adsorbents based dye removal with sustainability concerns in textile industrial sector -A comprehensive review. Journal of Cleaner Production, 2020, 272, 122636.	4.6	153
58	A review on municipal solid waste as a renewable source for waste-to-energy project in India: Current practices, challenges, and future opportunities. Journal of Cleaner Production, 2020, 277, 123227.	4.6	176
59	Anaerobic treatment of municipal solid waste landfill leachate. , 2020, , 175-193.		11
60	Application of response surface method for Total organic carbon reduction in leachate treatment using Fenton process. Environmental Technology and Innovation, 2020, 19, 101009.	3.0	25
61	Phyco-synthesis of Silver Nanoparticles Mediated from Marine Algae Sargassum myriocystum and Its Potential Biological and Environmental Applications. Waste and Biomass Valorization, 2020, 11, 5255-5271.	1.8	89
62	Improved production of lipid contents by cultivating Chlorella pyrenoidosa in heterogeneous organic substrates. Clean Technologies and Environmental Policy, 2019, 21, 1969-1978.	2.1	58
63	Manganese disulfide-silicon dioxide nano-material: Synthesis, characterization, photocatalytic, antioxidant and antimicrobial studies. Journal of Photochemistry and Photobiology B: Biology, 2019, 198, 111579.	1.7	40
64	Measuring sustainability through ecological sustainability and human sustainability: A machine learning approach. Journal of Cleaner Production, 2019, 240, 118162.	4.6	88
65	Cultivation of microalgae Chlorella sp. in municipal sewage for biofuel production and utilization of biochar derived from residue for the conversion of hematite iron ore (Fe ₂ O ₃) to iron (Fe) â€™ Integrated algal biorefinery. Energy, 2019, 189, 116128.	4.5	47
66	Hazardous heavy metals contamination of vegetables and food chain: Role of sustainable remediation approaches - A review. Environmental Research, 2019, 179, 108792.	3.7	309
67	Fluoride contamination, health problems and remediation methods in Asian groundwater: A comprehensive review. Ecotoxicology and Environmental Safety, 2019, 182, 109362.	2.9	250
68	Bioaccumulation and potential sources of heavy metal contamination in fish species in River Ganga basin: Possible human health risks evaluation. Toxicology Reports, 2019, 6, 472-481.	1.6	179
69	Microalgal Biotechnology Application Towards Environmental Sustainability. , 2019, , 445-465.		8
70	Accelerated two-stage bioprocess for hydrogen and methane production from palm oil mill effluent using continuous stirred tank reactor and microbial electrolysis cell. Journal of Cleaner Production, 2019, 229, 84-93.	4.6	64
71	Preparation, and structural of new NiS-SiO ₂ and Cr ₂ S ₃ -TiO ₂ nano-catalyst: Photocatalytic and antimicrobial studies. Journal of Photochemistry and Photobiology B: Biology, 2019, 194, 128-134.	1.7	54
72	Novel Z-scheme composite Ag ₂ CrO ₄ /NG/polyimide as high performance nano catalyst for photoreduction of CO ₂ : Design, fabrication, characterization and mechanism. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 368, 30-40.	2.0	39

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73	Microalgae Cultivation Using Various Sources of Organic Substrate for High Lipid Content. <i>Green Energy and Technology</i> , 2019, , 893-898.	0.4	4
74	Effect of various pretreatment methods on sugar and ethanol production from cellulosic water hyacinth. <i>BioResources</i> , 2019, 14, 592-606.	0.5	1
75	Removal of COD from landfill leachate by Predication and Evaluation of Multiple Linear Regression (MLR) Model and Fenton process. <i>Egyptian Journal of Chemistry</i> , 2019, .	0.1	6
76	Letâ€™s Protect Our Earth: Environmental Challenges and Implications. <i>Microorganisms for Sustainability</i> , 2019, , 1-10.	0.4	3
77	An efficient conversion of waste feather keratin into ecofriendly bioplastic film. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2157-2167.	2.1	76
78	Ethanol Production from Water Hyacinth (<i>Eichhornia crassipes</i>) Using Various Types of Enhancers Based on the Consumable Sugars. <i>Waste and Biomass Valorization</i> , 2018, 9, 939-946.	1.8	29
79	Treatment of Wastewater Using Seaweed: A Review. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2851.	1.2	89
80	Microplastics pollution in different aquatic environments and biota: A review of recent studies. <i>Marine Pollution Bulletin</i> , 2018, 133, 191-208.	2.3	441
81	Prediction and Optimization of the Fenton Process for the Treatment of Landfill Leachate Using an Artificial Neural Network. <i>Water (Switzerland)</i> , 2018, 10, 595.	1.2	63
82	Evaluation of <i>Lemna minor</i> and <i>Chlamydomonas</i> to treat palm oil mill effluent and fertilizer production. <i>Journal of Water Process Engineering</i> , 2017, 17, 229-236.	2.6	45
83	Biodegradation of pyrene by <i>Candida</i> sp. S1 under high salinity conditions. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1411-1418.	1.7	33
84	Evaluation of Lipid Content in Microalgae Biomass Using Palm Oil Mill Effluent (Pome). <i>Jom</i> , 2017, 69, 1361-1367.	0.9	29
85	Review on fermentative biohydrogen production from water hyacinth, wheat straw and rice straw with focus on recent perspectives. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20955-20969.	3.8	79
86	Comprehensive review on phytotechnology: Heavy metals removal by diverse aquatic plants species from wastewater. <i>Journal of Hazardous Materials</i> , 2016, 318, 587-599.	6.5	414
87	Optimum lipid production using agro-industrial wastewater treated microalgae as biofuel substrate. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2513-2523.	2.1	52
88	Review of microalgae growth in palm oil mill effluent for lipid production. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2347-2361.	2.1	27
89	<i>Chlorella Pyrenoidosa</i> Mediated Lipid Production Using Malaysian Agricultural Wastewater: Effects of Photon and Carbon. <i>Waste and Biomass Valorization</i> , 2016, 7, 779-788.	1.8	36
90	Isolation and screening of microalgae from agro-industrial wastewater (POME) for biomass and biodiesel sources. <i>Desalination and Water Treatment</i> , 2016, 57, 29118-29125.	1.0	49

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91	Tests and methods of evaluating the self-healing efficiency of concrete: A review. <i>Construction and Building Materials</i> , 2016, 112, 1123-1132.	3.2	188
92	The efficient role of aquatic plant (water hyacinth) in treating domestic wastewater in continuous system. <i>International Journal of Phytoremediation</i> , 2016, 18, 679-685.	1.7	61
93	An Analytical Approach to Calculate the Charge Density of Biofunctionalized Graphene Layer Enhanced by Artificial Neural Networks. <i>Plasmonics</i> , 2016, 11, 95-102.	1.8	29
94	Review on pretreatment methods and ethanol production from cellulosic water hyacinth. <i>BioResources</i> , 2016, 12, 2108-2124.	0.5	40
95	Greenhouse Gas Emission of Organic Waste Composting: A Case Study of Universiti Teknologi Malaysia Green Campus Flagship Project. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 74, .	0.3	18
96	Pyrene Metabolism by New Species Isolated from Soil Rhizoctonia Zeae SOL3. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	9
97	An Integrated Carbon Accounting and Mitigation Framework for Greening the Industry. <i>Energy Procedia</i> , 2015, 75, 2993-2998.	1.8	26
98	Efficiency of Microalgae <i>Chlamydomonas</i> on the Removal of Pollutants from Palm Oil Mill Effluent (POME). <i>Energy Procedia</i> , 2015, 75, 2400-2408.	1.8	97
99	Lipid production by microalgae <i>Chlorella pyrenoidosa</i> cultivated in palm oil mill effluent (POME) using hybrid photo bioreactor (HPBR). <i>Desalination and Water Treatment</i> , 2015, 55, 3737-3749.	1.0	32
100	Bioconcrete Strength Durability Permeability Recycling and Effects on Human Health A Review. , 2015, , .		6
101	Micro-Macro Algal Mixture as a Promising Agent for Treating POME Discharge and its Potential Use as Animal Feed Stock Enhancer. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014, 68, .	0.3	14
102	Application of <i>Proteus mirabilis</i> and <i>Proteus vulgaris</i> mixture to design self-healing concrete. <i>Desalination and Water Treatment</i> , 2014, 52, 3623-3630.	1.0	42
103	Effects of nitrogen source on enhancing growth conditions of green algae to produce higher lipid. <i>Desalination and Water Treatment</i> , 2014, 52, 3579-3584.	1.0	31
104	Palm Oil Mill Effluent as an Environmental Pollutant. , 0, , .		40
105	Magnetic Nano-Composites and their Industrial Applications. <i>Nano Hybrids and Composites</i> , 0, 20, 149-172.	0.8	14
106	Landfill leachate treatment by an anaerobic process enhanced with recyclable uniform beads (RUB) of seaweed species of <i>Gracilaria</i> . , 0, 143, 208-216.		8
107	Development of ZnO/MOGAC nanocomposites for enhanced photocatalytic removal of PO ₄ ³⁻ and NO ₃ ⁻ ions from wastewater under various light irradiations. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	18
108	Sustainable solid waste management in Yemen: environmental, social aspects, and challenges. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	10