

Konstantinos Moustakas

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

4,332
citations

147566

31
h-index

128067

60
g-index

139
all docs

139
docs citations

139
times ranked

4714
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of Cu(II) in fixed bed and batch reactors using natural zeolite and exfoliated vermiculite as adsorbents. <i>Desalination</i> , 2007, 215, 133-142.	4.0	329
2	Bio-based fertilizers: A practical approach towards circular economy. <i>Bioresource Technology</i> , 2020, 295, 122223.	4.8	271
3	3D printing filament as a second life of waste plastics—a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12321-12333.	2.7	169
4	Generation and management of construction and demolition waste in Greece—an existing challenge. <i>Resources, Conservation and Recycling</i> , 2003, 40, 81-91.	5.3	162
5	Controlled release micronutrient fertilizers for precision agriculture — A review. <i>Science of the Total Environment</i> , 2020, 712, 136365.	3.9	159
6	Demonstration plasma gasification/vitrification system for effective hazardous waste treatment. <i>Journal of Hazardous Materials</i> , 2005, 123, 120-126.	6.5	145
7	Sustainable production of pure silica from rice husk waste in Kazakhstan. <i>Journal of Cleaner Production</i> , 2019, 217, 352-359.	4.6	144
8	Multi-criteria analysis for the determination of the best WEEE management scenario in Cyprus. <i>Waste Management</i> , 2008, 28, 1941-1954.	3.7	107
9	Preliminary study for the management of construction and demolition waste. <i>Waste Management and Research</i> , 2008, 26, 267-275.	2.2	101
10	Effect of acid treatment on the removal of heavy metals from sewage sludge. <i>Desalination</i> , 2007, 215, 73-81.	4.0	99
11	Multi-criteria decision aid approach for the selection of the best compromise management scheme for ELVs: The case of Cyprus. <i>Journal of Hazardous Materials</i> , 2007, 147, 706-717.	6.5	95
12	Liquid biofuels from the organic fraction of municipal solid waste: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 110, 298-314.	8.2	93
13	Overview of water usage and wastewater management in the food and beverage industry. <i>Desalination and Water Treatment</i> , 2015, 53, 3335-3347.	1.0	92
14	Potential environmental pollution from copper metallurgy and methods of management. <i>Environmental Research</i> , 2021, 197, 111050.	3.7	90
15	Household hazardous waste management: A review. <i>Journal of Environmental Management</i> , 2015, 150, 310-321.	3.8	83
16	Use of natural clinoptilolite for the removal of lead, copper and zinc in fixed bed column. <i>Journal of Hazardous Materials</i> , 2007, 143, 575-581.	6.5	76
17	An overview on desalination & sustainability: renewable energy-driven desalination and brine management. <i>Desalination and Water Treatment</i> , 2016, 57, 2304-2314.	1.0	74
18	Success Stories for Recycling of MSW at Municipal Level: A Review. <i>Waste and Biomass Valorization</i> , 2015, 6, 657-684.	1.8	68

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19	Biomass Potential from Agricultural Waste for Energetic Utilization in Greece. <i>Energies</i> , 2019, 12, 1095.	1.6	68
20	Phytoextraction technologies for mercury and chromium contaminated soil: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 317-327.	1.6	66
21	The challenges and perspectives for anaerobic digestion of animal waste and fertilizer application of the digestate. <i>Chemosphere</i> , 2022, 295, 133799.	4.2	66
22	Circular bio-economy via energy transition supported by Fuzzy Cognitive Map modeling towards sustainable low-carbon environment. <i>Science of the Total Environment</i> , 2020, 721, 137754.	3.9	65
23	Added-value molecules recovery and biofuels production from spent coffee grounds. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110007.	8.2	62
24	Recovery of fertilizer nutrients from materials - Contradictions, mistakes and future trends. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 110, 485-498.	8.2	61
25	Biofortification of edible plants with selenium and iodine – A systematic literature review. <i>Science of the Total Environment</i> , 2021, 754, 141983.	3.9	61
26	Fuzzy Cognitive Map-Based Modeling of Social Acceptance to Overcome Uncertainties in Establishing Waste Biorefinery Facilities. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	51
27	Anaerobic digestion for energy production from agricultural biomass waste in Greece: Capacity assessment for the region of Thessaly. <i>Energy</i> , 2020, 191, 116556.	4.5	46
28	An integrated approach for the management of demolition waste in Cyprus. <i>Waste Management and Research</i> , 2008, 26, 573-581.	2.2	44
29	Thermochemical valorization and characterization of household biowaste. <i>Journal of Environmental Management</i> , 2017, 203, 648-654.	3.8	40
30	Study and assessment of segregated biowaste composting: The case study of Attica municipalities. <i>Journal of Environmental Management</i> , 2017, 203, 664-669.	3.8	35
31	Sustainable valorisation pathways mitigating environmental pollution from brewers' spent grains. <i>Environmental Pollution</i> , 2021, 270, 116069.	3.7	35
32	Improvement of the quality of sewage sludge compost by adding natural clinoptilolite. <i>Desalination</i> , 2008, 224, 240-249.	4.0	34
33	Leaching properties of slag generated by a gasification/vitrification unit: The role of pH, particle size, contact time and cooling method used. <i>Journal of Hazardous Materials</i> , 2012, 207-208, 44-50.	6.5	32
34	Analysis of results from the operation of a pilot plasma gasification/vitrification unit for optimizing its performance. <i>Journal of Hazardous Materials</i> , 2008, 151, 473-480.	6.5	31
35	Biochar in environmental friendly fertilizers - Prospects of development products and technologies. <i>Chemosphere</i> , 2022, 296, 133975.	4.2	31
36	The existing situation and challenges regarding the use of plastic carrier bags in Europe. <i>Waste Management and Research</i> , 2015, 33, 419-428.	2.2	30

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37	Performance of a new household composter during in-home testing. <i>Waste Management</i> , 2009, 29, 204-213.	3.7	28
38	Valorisation Opportunities Related to Wastewater and Animal By-Products Exploitation by the Greek Slaughtering Industry: Current Status and Future Potentials. <i>Waste and Biomass Valorization</i> , 2015, 6, 927-945.	1.8	26
39	Towards upscaling the valorization of wheat straw residues: alkaline pretreatment using sodium hydroxide, enzymatic hydrolysis and biogas production. <i>Environmental Science and Pollution Research</i> , 2021, 28, 24486-24498.	2.7	25
40	Innovative high digestibility protein feed materials reducing environmental impact through improved nitrogen-use efficiency in sustainable agriculture. <i>Journal of Environmental Management</i> , 2021, 291, 112693.	3.8	25
41	Valorisation of restaurant food waste under the concept of a biorefinery. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 661-671.	2.9	24
42	Adding Value to Olive Oil Production Through Waste and Wastewater Treatment and Valorisation: The Case of Greece. <i>Waste and Biomass Valorization</i> , 2015, 6, 913-925.	1.8	23
43	Review and Assessment of Waste and Wastewater Treatment from Fruits and Vegetables Processing Industries in Greece. <i>Waste and Biomass Valorization</i> , 2017, 8, 1629-1648.	1.8	23
44	The Role of Enzyme Loading on Starch and Cellulose Hydrolysis of Food Waste. <i>Waste and Biomass Valorization</i> , 2019, 10, 3753-3762.	1.8	23
45	Effect of pretreatment techniques on enzymatic hydrolysis of food waste. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 219-226.	2.9	23
46	Combination of decentralized waste drying and SSF techniques for household biowaste minimization and ethanol production. <i>Waste Management</i> , 2016, 52, 353-359.	3.7	22
47	Utilization of paper waste as growing media for potted ornamental plants. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1937-1948.	2.1	21
48	Value-added strategies for the sustainable handling, disposal, or value-added use of copper smelter and refinery wastes. <i>Journal of Hazardous Materials</i> , 2021, 403, 123602.	6.5	21
49	Current municipal solid waste management in the cities of Astana and Almaty of Kazakhstan and evaluation of alternative management scenarios. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 503-516.	2.1	20
50	The "COFFEE BIN" concept: centralized collection and torrefaction of spent coffee grounds. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35473-35481.	2.7	20
51	Energy and resource recovery through integrated sustainable waste management. <i>Applied Energy</i> , 2020, 261, 114372.	5.1	20
52	Sustainable management of brine effluent from desalination plants: the SOL-BRINE system. <i>Desalination and Water Treatment</i> , 2015, 53, 3151-3160.	1.0	19
53	Utilisation of biomass gasification by-products for onsite energy production. <i>Waste Management and Research</i> , 2016, 34, 564-571.	2.2	19
54	Single-Solution-Based Vortex Search Strategy for Optimal Design of Offshore and Onshore Natural Gas Liquefaction Processes. <i>Energies</i> , 2020, 13, 1732.	1.6	19

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55	Valorization of poultry slaughterhouse waste for fertilizer purposes as an alternative for thermal utilization methods. <i>Journal of Hazardous Materials</i> , 2022, 424, 127328.	6.5	19
56	Climate change impacts and adaptation options in the Mediterranean basin. <i>Regional Environmental Change</i> , 2016, 16, 1859-1861.	1.4	18
57	New directions for agricultural wastes valorization as hydrogel biocomposite fertilizers. <i>Journal of Environmental Management</i> , 2021, 299, 113480.	3.8	18
58	Recent innovations in various methods of harmful gases conversion and its mechanism in poultry farms. <i>Environmental Research</i> , 2022, 214, 113825.	3.7	18
59	Climate change impacts, vulnerability and adaptive capacity of the electrical energy sector in Cyprus. <i>Regional Environmental Change</i> , 2016, 16, 1891-1904.	1.4	17
60	Evaluation of Municipal Solid Waste Compost and/or Fertigation as Peat Substituent for Pepper Seedlings Production. <i>Waste and Biomass Valorization</i> , 2018, 9, 2285-2294.	1.8	17
61	Study of Valorisation Routes of Spent Coffee Grounds. <i>Waste and Biomass Valorization</i> , 2020, 11, 5295-5306.	1.8	17
62	Review and assessment of the adaptive capacity of the water sector in Cyprus against climate change impacts on water availability. <i>Resources, Conservation and Recycling</i> , 2015, 105, 95-112.	5.3	16
63	Effect of dilute sulfuric acid pretreatment on the physicochemical properties and enzymatic hydrolysis of coffee cut-stems. <i>Energy</i> , 2020, 195, 116986.	4.5	16
64	Tannery waste-derived biochar as a carrier of micronutrients essential to plants. <i>Chemosphere</i> , 2022, 294, 133720.	4.2	16
65	Exploring social determinants of municipal solid waste management: survey processing with fuzzy logic and self-organized maps. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35288-35304.	2.7	15
66	Assessing the alteration of physicochemical characteristics in composted organic waste in a prototype decentralized composting facility. <i>Environmental Science and Pollution Research</i> , 2019, 26, 20232-20247.	2.7	14
67	Assessing straw digestate as feedstock for bioethanol production. <i>Renewable Energy</i> , 2020, 153, 261-269.	4.3	14
68	Adaptation measures for the food and beverage industry to the impact of climate change on water availability. <i>Desalination and Water Treatment</i> , 2016, 57, 2336-2343.	1.0	13
69	The renewable battery concept via conversion of agricultural waste into biocoal using frictional pyrolysis. <i>Journal of Cleaner Production</i> , 2019, 229, 1183-1188.	4.6	13
70	Valorization of bio-based post-extraction residues of goldenrod and alfalfa as energy pellets. <i>Energy</i> , 2020, 194, 116898.	4.5	13
71	Future heat-related climate change impacts on tourism industry in Cyprus. <i>Regional Environmental Change</i> , 2016, 16, 1915-1927.	1.4	12
72	Agricultural and non-agricultural directions of bio-based sewage sludge valorization by chemical conditioning. <i>Environmental Science and Pollution Research</i> , 2021, 28, 47725-47740.	2.7	12

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73	New developments in sustainable waste-to-energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111581.	8.2	12
74	Phosphorus recovery from wastewater and bio-based waste: an overview. <i>Bioengineered</i> , 2022, 13, 13474-13506.	1.4	12
75	Evaluating in-vessel composting in treating sewage sludge and agricultural waste by examining and determining the kinetic reactions of the process. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2493-2502.	2.1	11
76	Implementation and Evaluation of an Integrated Management Scheme for MSW in Selected Communities in Tinos Island, Greece. <i>Waste and Biomass Valorization</i> , 2017, 8, 1597-1616.	1.8	11
77	Comparative study of air quality indices in the European Union towards adopting a common air quality index. <i>Energy and Environment</i> , 2021, 32, 959-980.	2.7	10
78	Optimizing Microalgal Biomass Feedstock Selection for Nanocatalytic Conversion Into Biofuel Clean Energy, Using Fuzzy Multi-Criteria Decision Making Processes. <i>Frontiers in Energy Research</i> , 2021, 8, .	1.2	10
79	Tannery waste as a renewable source of nitrogen for production of multicomponent fertilizers with biostimulating properties. <i>Environmental Science and Pollution Research</i> , 2023, 30, 8759-8777.	2.7	10
80	Development of a decentralized innovative brackish water treatment unit for the production of drinking water. <i>Desalination and Water Treatment</i> , 2015, 53, 3187-3198.	1.0	9
81	Advances and prospects in the field of waste management. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35283-35287.	2.7	9
82	The water-energy-climate nexus concept of "Hydrobattery": Storing excess Variable Renewable Energy (VRE) at the Canyon Ferry Dam. <i>Renewable Energy</i> , 2020, 155, 547-554.	4.3	9
83	Evaluation of the biogas potential of agricultural biomass waste for energy applications in Greece: A case study of the western Greece region. <i>Waste Management and Research</i> , 2021, 39, 438-447.	2.2	9
84	Site-specific determination of methane generation potential and estimation of landfill gas emissions from municipal solid waste landfill: a case study in Nam Binh Duong, Vietnam. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3491-3502.	2.9	9
85	WASTE MANAGEMENT IN ROMANIA: CURRENT DATA AND APPLICATION OF A DECISION SUPPORT TOOL. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 511-519.	0.2	9
86	Management of waste from electrical and electronic equipment: The case of television sets and refrigerators. <i>Journal of Environmental Engineering and Science</i> , 2008, 7, 105-114.	0.3	8
87	Modeling the emissions of a dual fuel engine coupled with a biomass gasifier" supplementing the Wiebe function. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35866-35873.	2.7	8
88	Introduction of the trapezoidal thermodynamic technique method for measuring and mapping the efficiency of waste-to-energy plants: A potential replacement to the R1 formula. <i>Waste Management and Research</i> , 2018, 36, 810-817.	2.2	8
89	Applications of the 3T Method and the R1 Formula as Efficiency Assessment Tools for Comparing Waste-to-Energy and Landfilling. <i>Energies</i> , 2019, 12, 1066.	1.6	8
90	Energy efficiency of waste-to-energy plants with a focus on the comparison and the constraints of the 3T method and the R1 formula. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 108, 323-329.	8.2	8

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91	From hazardous waste to fertilizer: Recovery of high-value metals from smelter slags. <i>Chemosphere</i> , 2022, 297, 134226.	4.2	8
92	Review of the impact of socio-economic conditions on the development and implementation of biorefineries. <i>Fuel</i> , 2022, 328, 125169.	3.4	8
93	Introduction to the Concept of Particleboard Production from Mixtures of Sawdust and Dried Food Waste. <i>Waste and Biomass Valorization</i> , 2018, 9, 2373-2379.	1.8	7
94	Printed Paper Waste as an Alternative Growing Medium Component to Produce Brassica Seedlings under Nursery Conditions. <i>Sustainability</i> , 2020, 12, 5992.	1.6	7
95	The potential environmental risks of the utilization of composts from household food waste. <i>Environmental Science and Pollution Research</i> , 2021, 28, 24663-24679.	2.7	7
96	Biodegradation of pharmaceuticals in photobioreactors – a systematic literature review. <i>Bioengineered</i> , 2022, 13, 4537-4556.	1.4	7
97	Athens-Biowaste Model: Cost and Carbon Footprint Calculation of the Collection at Source and Treatment of Biowaste. <i>Waste and Biomass Valorization</i> , 2015, 6, 685-698.	1.8	6
98	Characterization of Hotel Bio-waste by Means of Simultaneous Thermal Analysis. <i>Waste and Biomass Valorization</i> , 2016, 7, 649-657.	1.8	6
99	Assessing the Suitability of Biomass Ashes from Combustion in Boilers as Soil Fertilizers: Statistical Entropy Analysis and Introduction of the Potassium Utilization Potential Factor. <i>Waste and Biomass Valorization</i> , 2017, 8, 1569-1576.	1.8	6
100	Development of a two-phase model for the calculation of potassium, gaseous products and char yields in the after-burner of a small-scale biomass gasifier. <i>Journal of Cleaner Production</i> , 2018, 170, 70-75.	4.6	6
101	CO2 from waste to resource by developing novel mixed matrix membranes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12397-12405.	2.7	6
102	Assessing the effect of hydrothermal treatment (HT) severity on the fate of nitrates and phosphates in dairy wastewater. <i>Fuel</i> , 2022, 312, 122866.	3.4	6
103	Development of guidelines on best practices for the slaughter of animals in Cyprus. <i>Waste Management</i> , 2003, 23, 157-165.	3.7	5
104	Design of an innovative, ecological portable waste compressor for in-house recycling of paper, plastic and metal packaging waste. <i>Waste Management and Research</i> , 2015, 33, 439-452.	2.2	5
105	Analysis of tar compounds and quantification of naphthalene from thermal treatment of household biowaste. <i>Journal of Environmental Management</i> , 2018, 216, 153-159.	3.8	5
106	Valorization of post-extraction biomass residues as carriers of bioavailable micronutrients for plants and livestock. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 3037-3052.	2.9	5
107	Assessing the removal of heavy metals in industrial wastewater by means of chemical exergy. , 0, 91, 146-151.		5
108	Practical aspects of biowastes conversion to fertilizers. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1515-1533.	2.9	5

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109	Quality of Hydrochar from Wine Sludge under Variable Conditions of Hydrothermal Carbonization: The Case of Lesvos Island. <i>Energies</i> , 2022, 15, 3574.	1.6	5
110	Editorial - Sustainable Waste and Wastewater Management. <i>Journal of Environmental Management</i> , 2018, 216, 1-3.	3.8	4
111	Modelling of advanced gasification systems (MAGSY): Simulation and validation for the case of the rising co-current reactor. <i>Applied Energy</i> , 2019, 242, 526-533.	5.1	4
112	Modeling the co-combustion of coal and biocoal from the novel process of frictional pyrolysis for reducing the emissions of coal plants. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2937-2945.	2.9	4
113	MANAGEMENT OF WASTE FROM ELECTRICAL AND ELECTRONIC EQUIPMENT IN CYPRUS - A CASE STUDY. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 703-709.	0.2	4
114	Assessing the effect of hydrothermal treatment on the volatile solids content and the biomethane potential of common reed (<i>phragmites australis</i>). <i>Bioresource Technology Reports</i> , 2022, 17, 100923.	1.5	3
115	Editorial - Waste management. <i>Journal of Environmental Management</i> , 2017, 203, 619-620.	3.8	2
116	Sustainable waste management. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35761-35763.	2.7	2
117	NAXOS 2018: sustainable waste management. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 313-316.	1.6	2
118	Waste and biomass management and valorization. <i>Environmental Science and Pollution Research</i> , 2021, 28, 24224-24229.	2.7	2
119	Beyond the R1: A viable pathway for waste-to-energy in the circular economy framework. <i>Waste Management and Research</i> , 2021, 39, 1215-1217.	2.2	2
120	Wastewater treatment for reuse employing industrial by-products as alternative coagulants. , 0, 91, 55-63.		2
121	Advanced oxidation of industrial effluents under microwave irradiation: state of the art. , 0, 91, 138-145.		2
122	Editorial - ATHENS 2017: 5th International Conference on Sustainable Solid Waste Management, Athens, Greece, 21-24 June 2017. , 0, 112, 1-2.		2
123	Development and Application of Software Tools for Monitoring, Assessment and Reporting of Data Concerning the Operation of Urban Wastewater Treatment Plants in Cyprus. <i>Environmental Monitoring and Assessment</i> , 2007, 130, 255-270.	1.3	1
124	Review of the current EU framework on adaptation to climate change and assessment of the relative adaptation framework in Cyprus. <i>Desalination and Water Treatment</i> , 2016, 57, 2219-2231.	1.0	1
125	EDITORIAL " NAXOS 2018 " 6th International Conference on Sustainable Solid Waste Management Naxos Island, Greece, 13-16 June 2018. , 0, 159, 1-2.		1
126	Innovative uses of biochar derived from tannery waste as a soil amendment and fertilizer. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 7057-7073.	2.9	1

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127	Water Is Necessary For Life â€“ WIN4Life Conference 19â€“21 September 2013, Tinos Island, Greece. Desalination and Water Treatment, 2015, 53, 3149-3150.	1.0	0
128	AdaptToClimate conference 27â€“28 March 2014, Nicosia, Cyprus. Desalination and Water Treatment, 2016, 57, 2217-2218.	1.0	0
129	New micronutrient biocomponents based on blackcurrant seeds pomace â€“ Bench-scale kinetic studies. Energy and Environment, 2021, 32, 1397-1413.	2.7	0
130	Editorial. Biomass Conversion and Biorefinery, 2021, 11, 205-205.	2.9	0
131	Editorial - 13th IWA Specialized Conference on Small Water and Wastewater Systems (SWWS) together with the 5th IWA Specialized Conference on Resources-Oriented Sanitation (ROS). , 0, 91, 1-1.		0
132	LEACHABILITY OF HEAVY METALS FROM SLAG RESIDUES UNDER INTENSE TEMPERATURE AND STIRRING CONDITIONS. Environmental Engineering and Management Journal, 2019, 18, 81-88.	0.2	0
133	Multicriteria analysis as a supporting decision tool for expanding the use of the 3T method for waste-to-energy technologies and biorefineries. Sustainable Chemistry and Pharmacy, 2022, 28, 100715.	1.6	0