

# Orhan Aönce

## List of Publications by Year in descending order

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111  
papers

3,871  
citations

94381

37  
h-index

143943

57  
g-index

112  
all docs

112  
docs citations

112  
times ranked

3831  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic impact of tetracycline on the biodegradation of an organic substrate mixture under anaerobic conditions. <i>Water Research</i> , 2013, 47, 2959-2969.	5.3	176
2	Performance of a two-phase anaerobic digestion system when treating dairy wastewater. <i>Water Research</i> , 1998, 32, 2707-2713.	5.3	150
3	Development of antibiotic resistance genes in microbial communities during long-term operation of anaerobic reactors in the treatment of pharmaceutical wastewater. <i>Water Research</i> , 2015, 83, 337-344.	5.3	150
4	Anaerobic treatment of a chemical synthesis-based pharmaceutical wastewater in a hybrid upflow anaerobic sludge blanket reactor. <i>Bioresource Technology</i> , 2008, 99, 1089-1096.	4.8	127
5	Application of real-time PCR to determination of combined effect of antibiotics on Bacteria, Methanogenic Archaea, Archaea in anaerobic sequencing batch reactors. <i>Water Research</i> , 2015, 76, 88-98.	5.3	105
6	Methanogenic and sulphate reducing bacterial population levels in a full-scale anaerobic reactor treating pulp and paper industry wastewater using fluorescence in situ hybridisation. <i>Water Science and Technology</i> , 2007, 55, 183-191.	1.2	102
7	Reconstruction of bacterial community structure and variation for enhanced petroleum hydrocarbons degradation through biostimulation of oil contaminated soil. <i>Chemical Engineering Journal</i> , 2016, 306, 60-66.	6.6	101
8	Combined effect of erythromycin, tetracycline and sulfamethoxazole on performance of anaerobic sequencing batch reactors. <i>Bioresource Technology</i> , 2015, 186, 207-214.	4.8	100
9	Anaerobic sulfamethoxazole degradation is driven by homoacetogenesis coupled with hydrogenotrophic methanogenesis. <i>Water Research</i> , 2016, 90, 79-89.	5.3	94
10	Biodegradation and reversible inhibitory impact of sulfamethoxazole on the utilization of volatile fatty acids during anaerobic treatment of pharmaceutical industry wastewater. <i>Science of the Total Environment</i> , 2015, 536, 667-674.	3.9	85
11	Evaluation of microbial population and functional genes during the bioremediation of petroleum-contaminated soil as an effective monitoring approach. <i>Ecotoxicology and Environmental Safety</i> , 2016, 125, 153-160.	2.9	85
12	Comparison of Rumen and Manure Microbiomes and Implications for the Inoculation of Anaerobic Digesters. <i>Microorganisms</i> , 2018, 6, 15.	1.6	77
13	Aerobic and anaerobic fungal metabolism and Omics insights for increasing polycyclic aromatic hydrocarbons biodegradation. <i>Fungal Biology Reviews</i> , 2017, 31, 61-72.	1.9	75
14	Effect of wastewater composition on archaeal population diversity. <i>Water Research</i> , 2005, 39, 1576-1584.	5.3	70
15	Effect of bioaugmentation by cellulolytic bacteria enriched from sheep rumen on methane production from wheat straw. <i>Anaerobe</i> , 2017, 46, 122-130.	1.0	69
16	Crop-based composting of lignocellulosic digestates: Focus on bacterial and fungal diversity. <i>Bioresource Technology</i> , 2019, 288, 121549.	4.8	67
17	Effect of oxytetracycline on biogas production and active microbial populations during batch anaerobic digestion of cow manure. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 541-546.	1.7	63
18	Inhibitory effects of antibiotic combinations on syntrophic bacteria, homoacetogens and methanogens. <i>Chemosphere</i> , 2015, 120, 515-520.	4.2	61

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19	Inert COD production in a membrane anaerobic reactor treating brewery wastewater. <i>Water Research</i> , 2000, 34, 3943-3948.	5.3	60
20	Acute inhibitory impact of antimicrobials on acetoclastic methanogenic activity. <i>Bioresource Technology</i> , 2012, 114, 109-116.	4.8	60
21	Inhibition of Volatile Fatty Acid Production in Granular Sludge from a UASB Reactor. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005, 40, 633-644.	0.9	57
22	Assessment of anaerobic bacterial diversity and its effects on anaerobic system stability and the occurrence of antibiotic resistance genes. <i>Bioresource Technology</i> , 2016, 207, 332-338.	4.8	57
23	Improvement of biogas potential of anaerobic digesters using rumen fungi. <i>Renewable Energy</i> , 2017, 109, 346-353.	4.3	57
24	Control of organic loading rate using the specific methanogenic activity test during start-up of an anaerobic digestion system. <i>Water Research</i> , 1995, 29, 349-355.	5.3	56
25	Determination of optimum operating conditions of an acidification reactor treating a chemical synthesis-based pharmaceutical wastewater. <i>Process Biochemistry</i> , 2006, 41, 2258-2263.	1.8	56
26	A comprehensive microbial insight into single-stage and two-stage anaerobic digestion of oxytetracycline-medicated cattle manure. <i>Chemical Engineering Journal</i> , 2016, 303, 675-684.	6.6	56
27	Bioaugmentation with <i>Clostridium thermocellum</i> to enhance the anaerobic biodegradation of lignocellulosic agricultural residues. <i>Bioresource Technology</i> , 2018, 249, 620-625.	4.8	54
28	Biological pretreatment with <i>Trametes versicolor</i> to enhance methane production from lignocellulosic biomass: A metagenomic approach. <i>Industrial Crops and Products</i> , 2019, 140, 111659.	2.5	54
29	Fungal bioaugmentation of anaerobic digesters fed with lignocellulosic biomass: What to expect from anaerobic fungus <i>Orpinomyces</i> sp.. <i>Bioresource Technology</i> , 2019, 277, 1-10.	4.8	52
30	Use of PCR-DGGE based molecular methods to assessment of microbial diversity during anaerobic treatment of antibiotic combinations. <i>Bioresource Technology</i> , 2015, 192, 735-740.	4.8	51
31	Evaluation of performance, acetoclastic methanogenic activity and archaeal composition of full-scale UASB reactors treating alcohol distillery wastewaters. <i>Process Biochemistry</i> , 2006, 41, 28-35.	1.8	48
32	Microbiological study of two-stage anaerobic digestion during start-up. <i>Water Research</i> , 1994, 28, 2383-2392.	5.3	47
33	Comparison of porous and non-porous media in upflow anaerobic filters when treating dairy wastewater. <i>Water Research</i> , 1994, 28, 1619-1624.	5.3	45
34	Rumen bacteria at work: bioaugmentation strategies to enhance biogas production from cow manure. <i>Journal of Applied Microbiology</i> , 2018, 124, 491-502.	1.4	43
35	Rumen anaerobic fungi create new opportunities for enhanced methane production from microalgae biomass. <i>Algal Research</i> , 2017, 23, 150-160.	2.4	40
36	Biogeographical distribution and diversity of bacterial and archaeal communities within highly polluted anoxic marine sediments from the marmara sea. <i>Marine Pollution Bulletin</i> , 2009, 58, 384-395.	2.3	39

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37	Operating conditions influence microbial community structures, elimination of the antibiotic resistance genes and metabolites during anaerobic digestion of cow manure in the presence of oxytetracycline. <i>Ecotoxicology and Environmental Safety</i> , 2018, 147, 349-356.	2.9	39
38	An Investigation into the Pre-Treatment of Dairy Wastewater Prior to Aerobic Biological Treatment. <i>Water Science and Technology</i> , 1994, 29, 205-212.	1.2	38
39	Biodegradation of Tetracycline Under Various Conditions and Effects on Microbial Community. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 631-640.	1.4	37
40	Microbial monitoring of ammonia removal in a UASB reactor treating pre-digested chicken manure with anaerobic granular inoculum. <i>Bioresource Technology</i> , 2017, 241, 332-339.	4.8	37
41	Effect of a chemical synthesis-based pharmaceutical wastewater on performance, acetoclastic methanogenic activity and microbial population in an upflow anaerobic filter. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 711-719.	1.6	35
42	Determination of potential methane production capacity of a granular sludge from a pilot-scale upflow anaerobic sludge blanket reactor using a specific methanogenic activity test. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 573-578.	1.6	34
43	Effect of nitrogen limitation on enrichment of activated sludge for PHA production. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 1007-1016.	1.7	34
44	Performance of anaerobic sequencing batch reactor in the treatment of pharmaceutical wastewater containing erythromycin and sulfamethoxazole mixture. <i>Water Science and Technology</i> , 2014, 70, 1625-1632.	1.2	34
45	Anaerobic co-digestion of cow manure and barley: Effect of cow manure to barley ratio on methane production and digestion stability. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 589-595.	1.3	34
46	Application of next-generation sequencing methods for microbial monitoring of anaerobic digestion of lignocellulosic biomass. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6849-6864.	1.7	32
47	Spatial and temporal changes in microbial diversity of the Marmara Sea Sediments. <i>Marine Pollution Bulletin</i> , 2011, 62, 2384-2394.	2.3	29
48	Volatile fatty acid production dynamics during the acidification of pretreated olive mill wastewater. <i>Bioresource Technology</i> , 2017, 241, 936-944.	4.8	27
49	Composition of the microbial population in a membrane anaerobic reactor system during start-up. <i>Water Research</i> , 1997, 31, 1-10.	5.3	26
50	Assessment of inert COD in pulp and paper mill wastewater under anaerobic conditions. <i>Water Research</i> , 1998, 32, 3490-3494.	5.3	26
51	Changes to bacterial community make-up in a two-phase anaerobic digestion system. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 500-508.	1.6	26
52	Degradation of oxytetracycline and its impacts on biogas-producing microbial community structure. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1051-1060.	1.7	26
53	The fate of oxytetracycline in two-phase and single-phase anaerobic cattle manure digesters and its effects on microbial communities. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 806-814.	1.6	26
54	Assessment of the horizontal transfer of functional genes as a suitable approach for evaluation of the bioremediation potential of petroleum-contaminated sites: a mini-review. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4341-4348.	1.7	26

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55	Microbial Kinetics of a Membrane Anaerobic Reactor System. Environmental Technology (United Kingdom), 1997, 18, 107-114.	1.2	25
56	Attachment, strength and performance of a porous media in an upflow anaerobic filter treating dairy wastewater. Water Science and Technology, 2000, 41, 261-270.	1.2	25
57	Bioaugmentation of anaerobic digesters treating lignocellulosic feedstock by enriched microbial consortia. Engineering in Life Sciences, 2018, 18, 440-446.	2.0	25
58	Toxicity of trivalent chromium in the anaerobic digestion process. Water Research, 1996, 30, 731-741.	5.3	24
59	Nickel Removal from Waters Using Surfactant-Enhanced Hybrid PAC/MF Process. I. The Influence of System-Component Variables. Industrial & Engineering Chemistry Research, 2006, 45, 3926-3933.	1.8	23
60	Inhibition effect of isopropanol on acetyl-CoA synthetase expression level of acetoclastic methanogen, Methanosaeta concilii. Journal of Biotechnology, 2011, 156, 95-99.	1.9	23
61	Changes in microbial community structures due to varying operational conditions in the anaerobic digestion of oxytetracycline-medicated cow manure. Applied Microbiology and Biotechnology, 2016, 100, 6469-6479.	1.7	23
62	Potential energy production from anaerobic digestion of dairy wastewater. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 1998, 33, 1219-1228.	0.9	22
63	Assessment of Biogas use as an Energy Source from Anaerobic Digestion of Brewery Wastewater. Water, Air, and Soil Pollution, 2001, 126, 239-251.	1.1	22
64	Comparative evaluation of full-scale UASB reactors treating alcohol distillery wastewaters in terms of performance and methanogenic activity. Journal of Chemical Technology and Biotechnology, 2005, 80, 138-144.	1.6	22
65	Effect of seed sludge microbial community and activity on the performance of anaerobic reactors during the start-up period. World Journal of Microbiology and Biotechnology, 2012, 28, 637-647.	1.7	21
66	Enrichment of lignocellulose-degrading microbial communities from natural and engineered methanogenic environments. Applied Microbiology and Biotechnology, 2018, 102, 1035-1043.	1.7	21
67	Performance and microbial community variations in thermophilic anaerobic digesters treating OTC medicated cow manure under different operational conditions. Bioresource Technology, 2016, 205, 191-198.	4.8	20
68	Enhancing methane production from anaerobic co-digestion of cow manure and barley: Link between process parameters and microbial community dynamics. Environmental Progress and Sustainable Energy, 2020, 39, 13292.	1.3	19
69	Bacterial Succession in the Thermophilic Phase of Composting of Anaerobic Digestates. Waste and Biomass Valorization, 2020, 11, 841-849.	1.8	18
70	Pollution Prevention in the Pulp and Paper Industries. , 0, , .		16
71	Nickel Removal from Waters Using a Surfactant-Enhanced Hybrid Powdered Activated Carbon/Microfiltration Process. II. The Influence of Process Variables. Industrial & Engineering Chemistry Research, 2009, 48, 903-913.	1.8	15
72	Microbial community shifts in the oxic-settling-anoxic process in response to changes to sludge interchange ratio. Heliyon, 2019, 5, e01517.	1.4	15

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73	Potential of ultrafiltration for organic matter removal in the polymer industry effluent based on particle size distribution analysis. <i>Environmental Science and Pollution Research</i> , 2013, 20, 340-350.	2.7	14
74	Acute effect of erythromycin on metabolic transformations of volatile fatty acid mixture under anaerobic conditions. <i>Chemosphere</i> , 2015, 124, 129-135.	4.2	14
75	Acute effects of various antibiotic combinations on acetoclastic methanogenic activity. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6230-6235.	2.7	14
76	Effect of nitrogen deficiency during SBR operation on PHA storage and microbial diversity. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 1827-1837.	1.2	13
77	Inhibitory effect of erythromycin, tetracycline and sulfamethoxazole antibiotics on anaerobic treatment of a pharmaceutical wastewater. <i>Water Science and Technology</i> , 2015, 71, 1620-1628.	1.2	13
78	Effect of Wastewater Composition on Methanogenic Activity in an Anaerobic Reactor. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2004, 39, 2941-2953.	0.9	11
79	Increment in Anaerobic Hydrocarbon Degradation Activity of Halic Bay Sediments via Nutrient Amendment. <i>Microbial Ecology</i> , 2011, 61, 871-884.	1.4	10
80	The effects of white-rot fungi <i>Trametes versicolor</i> and <i>Bjerkandera adusta</i> on microbial community structure and functional genes during the bioaugmentation process following biostimulation practice of petroleum contaminated soil. <i>International Biodeterioration and Biodegradation</i> , 2016, 114, 67-74.	1.9	10
81	Composting practice for sustainable waste management: a case study in Istanbul. <i>Desalination and Water Treatment</i> , 2016, 57, 14473-14477.	1.0	10
82	Contrasting the Water Quality and Bacterial Community Patterns in Shallow and Deep Lakes: Manyas vs. Iznik. <i>Environmental Management</i> , 2021, 67, 506-512.	1.2	10
83	Experimental Determination of the Inert Soluble COD Fraction of a Brewery Wastewater under Anaerobic Conditions. <i>Environmental Technology (United Kingdom)</i> , 1998, 19, 437-442.	1.2	9
84	Joint analysis of transient flux behaviors via membrane fouling in hybrid PAC/MF processes using neural network. <i>Desalination</i> , 2010, 250, 188-196.	4.0	9
85	Effect of Changes in Composition of Methanogenic Species on Performance of a Membrane Anaerobic Reactor System Treating Brewery Wastewater. <i>Environmental Technology (United Kingdom)</i> , 1995, 16, 901-914.	1.2	8
86	Analysis of Methanogenic Archaeal and Sulphate Reducing Bacterial Populations in Deep Sediments of the Black Sea. <i>Geomicrobiology Journal</i> , 2006, 23, 285-292.	1.0	8
87	Toluene inhibition on an anaerobic reactor sludge in terms of potential activity and composition of acetoclastic methanogens. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 1551-1556.	0.9	8
88	Acidification of non-medicated and oxytetracycline-medicated cattle manures during anaerobic digestion. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2373-2379.	1.2	8
89	Individual and combined inhibitory effects of methanol and toluene on acetyl-CoA synthetase expression level of acetoclastic methanogen, <i>Methanosaeta concilii</i> . <i>International Biodeterioration and Biodegradation</i> , 2015, 105, 233-238.	1.9	8
90	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2003, 144, 301-315.	1.1	7

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91	Development of a fast and low-cost qPCR assay for diagnosis of acute gas pharyngitis. <i>Annals of Clinical Microbiology and Antimicrobials</i> , 2016, 15, 46.	1.7	7
92	Microbial Population Dynamics in an Anaerobic CSTR Treating a Chemical Synthesis-Based Pharmaceutical Wastewater. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2003, 38, 2029-2042.	0.9	6
93	Fate of inert cod fractions in two-stage biological treatment of a strong wastewater. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 1999, 34, 1329-1340.	0.9	5
94	Methanogenic community change in a full-scale UASB reactor operated at a low F/M ratio. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 903-910.	0.9	5
95	Monitoring the abundance and the activity of ammonia-oxidizing bacteria in a full-scale nitrifying activated sludge reactor. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2328-2334.	2.7	5
96	Linking nano-ZnO contamination to microbial community profiling in sanitary landfill simulations. <i>Environmental Science and Pollution Research</i> , 2019, 26, 13580-13591.	2.7	5
97	Ecosystem modelling of coastal lagoons for sustainable management. <i>International Journal of Salt Lake Research</i> , 1997, 6, 91-105.	0.1	4
98	The microbial diversity, methane production, operational routine of an anaerobic reactor treating maize processing wastewater. <i>Water Practice and Technology</i> , 2012, 7, .	1.0	4
99	Bioenergy production from diluted poultry manure and microbial consortium inside Anaerobic Sludge Bed Reactor at sub-mesophilic conditions. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 775-785.	0.7	3
100	Gel Electrophoresis Based Genetic Fingerprinting Techniques on Environmental Ecology. , 2012, , .		2
101	The joint acute effect of tetracycline, erythromycin and sulfamethoxazole on acetoclastic methanogens. <i>Water Science and Technology</i> , 2015, 71, 1128-1135.	1.2	2
102	Bacterial Community Composition of Sapanca Lake During a Cyanobacterial Bloom. <i>Aquatic Sciences and Engineering</i> , 2020, 35, 52-56.	0.8	2
103	Identification of nitrifiers in a full-scale biological treatment system using fluorescentin situ hybridization. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 517-523.	0.9	1
104	Comparative Assessment of Biogas Production Potential of the Most Abundant Agro-residues in Turkey. <i>Deu Muhendislik Fakultesi Fen Ve Muhendislik</i> , 2021, 23, 547-555.	0.1	1
105	Determination of potential methane production capacity of a granular sludge from a pilot-scale upflow anaerobic sludge blanket reactor using a specific methanogenic activity test. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 573-578.	1.6	1
106	Erratum to "Effect of aerobic stabilization on biomass activity" [J. Biotechnol. 150S (2010) S35]. <i>Journal of Biotechnology</i> , 2012, 160, 269.	1.9	0
107	New approach to encapsulation of <i>Trametes versicolor</i> in calcium alginate beads: a promising biological pretreatment method for enhanced anaerobic digestion. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	0
108	Monitoring of Bacterial Diversity in Relation to PHA Storage Capacity in an Anaerobic/Aerobic Activated Sludge SBR System. , 2009, , .		0

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109	Rumen Sıvısının Aşırı Olarak Kullanıldığı Bıyıkbağ Hayvan Dışkılarına Aşırı Asidifikasyon Veriminin İncelenmesi. Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2015, 1, 27-38.	0.2	0
110	Zeytin Karasuyunun Elektrokoagülasyon ile Arıtılması Tek Fazlı Anaerobik Arıtma. Sakarya University Journal of Science, 0, , 1-1.	0.3	0
111	Anaerobic Lignocellulolytic Microbial Community Derived from Hindgut of Pachnoda Marginata Larva. Pamukkale University Journal of Engineering Sciences, 2020, 26, 1117-1122.	0.2	0