

# Petros E Samaras

## List of Publications by Year in descending order

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114  
papers

3,617  
citations

117571

34  
h-index

143943

57  
g-index

119  
all docs

119  
docs citations

119  
times ranked

4303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Nutrients Recovery Capacity and Biomass Growth of Four Microalgae Species in Anaerobic Digestion Effluent. <i>Water (Switzerland)</i> , 2022, 14, 221.	1.2	5
2	Evaluation of <i>Lactobacillus kefir</i> and manganese peroxidase-producing bacteria for decolorization of melanoidins and reduction of chemical oxygen demand. <i>Water and Environment Journal</i> , 2021, 35, 704-714.	1.0	4
3	Estimation of Energy Recovery Potential from Primary Residues of Four Municipal Wastewater Treatment Plants. <i>Sustainability</i> , 2021, 13, 7198.	1.6	12
4	Effect of Operating Conditions on Membrane Fouling in Pilot-Scale MBRs: Filaments Growth, Diminishing Dissolved Oxygen and Recirculation Rate of the Activated Sludge. <i>Membranes</i> , 2021, 11, 490.	1.4	7
5	Membrane Fouling Controlled by Adjustment of Biological Treatment Parameters in Step-Aerating MBR. <i>Membranes</i> , 2021, 11, 553.	1.4	13
6	The Effect of Ammonia Toxicity on Methane Production of a Full-Scale Biogas Plant—An Estimation Method. <i>Energies</i> , 2021, 14, 5031.	1.6	10
7	Production and use of biochar from lignin and lignin-rich residues (such as digestate and olive) Tj ETQq1 1 0.784314 rgBT /Overlock 107 2.65 30	1.0	10
8	The Inclusion of Acidic and Stormwater Flows in Concrete Sewer Corrosion Mitigation Studies. <i>Water (Switzerland)</i> , 2021, 13, 261.	1.2	4
9	Novel Approaches for Biocorrosion Mitigation in Sewer Systems. <i>Chemistry</i> , 2021, 3, 1166-1177.	0.9	1
10	The Dissolved Oxygen Effect on the Controlled Growth of Filamentous Microorganisms in Membrane Bioreactors. <i>Environmental Sciences Proceedings</i> , 2020, 2, .	0.3	3
11	Energy Benchmarking and Optimization of Wastewater Treatment Plants in Greece. <i>Environmental Sciences Proceedings</i> , 2020, 2, 36.	0.3	7
12	Properties and Performance of Novel Mg(OH) <sub>2</sub> -Based Coatings for Corrosion Mitigation in Concrete Sewer Pipes. <i>Materials</i> , 2020, 13, 5291.	1.3	18
13	LCA of a Membrane Bioreactor Compared to Activated Sludge System for Municipal Wastewater Treatment. <i>Membranes</i> , 2020, 10, 421.	1.4	32
14	Least Cost Analysis for Biocorrosion Mitigation Strategies in Concrete Sewers. <i>Sustainability</i> , 2020, 12, 4578.	1.6	5
15	Combined Effect of Colloids and SMP on Membrane Fouling in MBRs. <i>Membranes</i> , 2020, 10, 118.	1.4	19
16	Biocorrosion of Concrete Sewers in Greece: Current Practices and Challenges. <i>Sustainability</i> , 2020, 12, 2638.	1.6	12
17	Quorum Quenching as an Anti-biofouling Strategy for Wastewater Reuse and Biofouling Affected Industries. , 2020, , 321-333.		0
18	The content of trace element iron is a key factor for competition between anaerobic ammonium oxidation and methane-dependent denitrification processes. <i>Chemosphere</i> , 2018, 198, 370-376.	4.2	30

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19	Mechanism of SMP aggregation within the pores of hydrophilic and hydrophobic MBR membranes and aggregates detachment. Separation and Purification Technology, 2018, 202, 119-129.	3.9	41
20	Evaluation of a novel quorum quenching strain for MBR biofouling mitigation. Water Research, 2018, 143, 56-65.	5.3	53
21	An innovative bioreactor set-up that reduces membrane fouling by adjusting the filamentous bacterial population. Journal of Membrane Science, 2017, 542, 430-438.	4.1	36
22	Microalgae-activated sludge treatment of molasses wastewater in sequencing batch photo-bioreactor. Environmental Technology (United Kingdom), 2017, 38, 1120-1126.	1.2	8
23	Start-up and steady-state results of a UASB reactor treating high pH baker's yeast molasses wastewater for methane production. Journal of Chemical Technology and Biotechnology, 2017, 92, 775-780.	1.6	10
24	ROLE OF EXTRACELLULAR POLYMERIC SUBSTANCES ON TWO BIOLOGICAL REACTORS PERFORMANCE TREATING PHENOL. Environmental Engineering and Management Journal, 2017, 16, 1843-1852.	0.2	0
25	12th International Conference on Protection and Restoration of the Environment (PRE XII) Skiathos Island, Greece, 29 June–3 July, 2014. Desalination and Water Treatment, 2016, 57, 11435-11435.	1.0	0
26	Biodegradation and decolorization of melanoidin solutions by manganese peroxidase yeasts. Water Science and Technology, 2016, 73, 2436-2445.	1.2	14
27	Enhancement of the performance of a combined microalgae-activated sludge system for the treatment of high strength molasses wastewater. Journal of Environmental Management, 2016, 183, 126-132.	3.8	28
28	Seasonal variation in microbiological and physicochemical characteristics of municipal wastewater in Al-Sharqiya province, Egypt (case study). Desalination and Water Treatment, 2016, 57, 2355-2364.	1.0	5
29	Experimental study of degradation of molasses wastewater by biological treatment combined with ozonation. Journal of Chemical Technology and Biotechnology, 2016, 91, 857-864.	1.6	9
30	Effect of ultrasonic and ozonation pretreatment on methane production potential of raw molasses wastewater. Renewable Energy, 2016, 96, 1078-1085.	4.3	35
31	Quantitative and Qualitative Analysis of Biomass from Agro-industrial Processes in the Central Macedonia Region, Greece. Waste and Biomass Valorization, 2016, 7, 383-395.	1.8	7
32	Removal of Toxic Materials from Aqueous Streams. , 2015, , 443-473.		3
33	The use of steelmaking slag for sewage sludge stabilization. Desalination and Water Treatment, 2015, 55, 1697-1702.	1.0	9
34	Contribution to the Sustainable Management of Resources by Novel Combination of Industrial Solid Residues into Red Ceramics. Bulletin of Environmental Contamination and Toxicology, 2015, 94, 345-351.	1.3	7
35	Evaluation of interactions between soil and coal fly ash leachates using column percolation tests. Waste Management, 2015, 43, 255-263.	3.7	20
36	1st EWaS-MED International Conference on Improving Efficiency of Water Systems in a Changing Natural and Financial Environment 11–13 April 2013, Thessaloniki, Greece. Desalination and Water Treatment, 2015, 54, 2057-2058.	1.0	0

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37	Post-treatment of molasses wastewater by electrocoagulation and process optimization through response surface analysis. <i>Journal of Environmental Management</i> , 2015, 164, 104-113.	3.8	49
38	Utilization of Phosphogypsum in Tannery Sludge Stabilization and Evaluation of the Radiological Impact. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 94, 352-357.	1.3	17
39	Water Pipe Networks Performance Assessment: Benchmarking Eight Cases Across the EU Mediterranean Basin. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 99-108.	1.5	15
40	Basic Principles of a DSS Tool Developed to Prioritize NRW Reduction Measures in Water Pipe Networks. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 39-51.	1.5	16
41	Occurrence of Cr(VI) in drinking water of Greece and relation to the geological background. <i>Journal of Hazardous Materials</i> , 2015, 281, 2-11.	6.5	104
42	The Incorporation of Ceramic Membranes in MBR Systems for Wastewater Treatment: Advantages and Patented New Developments. <i>Recent Patents on Engineering</i> , 2014, 8, 24-32.	0.3	16
43	Fouling Issues in Membrane Bioreactors (MBRs) for Wastewater Treatment: Major Mechanisms, Prevention and Control Strategies. <i>Processes</i> , 2014, 2, 795-866.	1.3	90
44	NanoMembraneWater: development of innovative hybrid processes for contaminated water treatment using nanoporous membranes. <i>Desalination and Water Treatment</i> , 2013, 51, 4938-4946.	1.0	4
45	A test for adequate wastewater treatment based on glutathione S transferase isoenzyme profile. <i>Ecotoxicology and Environmental Safety</i> , 2013, 90, 46-51.	2.9	2
46	Protozoans as indicators of sequential batch processes for phenol treatment; an autoecological approach. <i>Ecotoxicology and Environmental Safety</i> , 2013, 98, 210-218.	2.9	10
47	Utilization of a multi-parameter sensor network for online monitoring of the water quality in the lignite mining area of Kozani, Greece. <i>Desalination and Water Treatment</i> , 2013, 51, 2977-2986.	1.0	3
48	A new set of water losses-related performance indicators focused on areas facing water scarcity conditions. <i>Desalination and Water Treatment</i> , 2013, 51, 2994-3010.	1.0	31
49	Indicators and options towards sustainability in industrial areas. <i>International Journal of Innovation and Sustainable Development</i> , 2013, 7, 215.	0.3	3
50	Assessing the performance of urban water networks across the EU Mediterranean area: The paradox of high NRW levels and absence of respective reduction measures. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 939-950.	1.0	23
51	Artificial destratification of Dipotamos reservoir in Northern Greece by low energy air injection. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 1046-1055.	1.0	1
52	The use of a submerged membrane batch reactor (S.M.B.R) for co-treatment of landfill leachates and domestic wastewater. <i>Desalination and Water Treatment</i> , 2012, 39, 284-290.	1.0	6
53	Environmental hazard assessment of coal fly ashes using leaching and ecotoxicity tests. <i>Ecotoxicology and Environmental Safety</i> , 2012, 84, 212-220.	2.9	47
54	Evaluation of the operation performance of a municipal activated sludge unit. <i>Desalination and Water Treatment</i> , 2012, 39, 271-277.	1.0	3

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55	2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE). Desalination and Water Treatment, 2011, 33, 1-2.	1.0	2
56	Effect of municipal waste water effluent upon the expression of Glutathione S-transferase isoenzymes of brine shrimp Artemia. Chemosphere, 2011, 84, 105-109.	4.2	8
57	Effects of influent composition on activated sludge protozoa. Desalination and Water Treatment, 2011, 33, 132-139.	1.0	2
58	Evaluation of sewage sludge production and utilization in Greece in the frame of integrated energy recovery. Desalination and Water Treatment, 2011, 33, 185-193.	1.0	24
59	A multi-criteria assessment of scenarios on thermal processing of infectious hospital wastes: A case study for Central Macedonia. Waste Management, 2010, 30, 251-262.	3.7	94
60	Investigation of protozoa as indicators of wastewater treatment efficiency in constructed wetlands. Desalination, 2010, 250, 378-382.	4.0	30
61	Cellular-automata and individual-based approaches for the modeling of biofilm structures: Pros and cons. Desalination, 2010, 250, 390-394.	4.0	36
62	Operation description and physicochemical characteristics of influent, effluent and the tertiary treatment from a sewage treatment plant of the Eastern Region of Cyprus under warm climates. Desalination and Water Treatment, 2010, 22, 244-257.	1.0	15
63	Treatment efficiency and sludge characteristics in conventional and suspended PVA gel beads activated sludge treating Cr (VI) containing wastewater. Desalination and Water Treatment, 2010, 23, 199-205.	1.0	8
64	Effectiveness of ozonation and chlorination on municipal wastewater treatment evaluated by a battery of bioassays and biomarkers. Water Science and Technology, 2009, 60, 1497-1505.	1.2	6
65	Effect of hexavalent chromium on the activated sludge process and on the sludge protozoan community. Bioresource Technology, 2009, 100, 38-43.	4.8	41
66	Comparative study of phenol and cyanide containing wastewater in CSTR and SBR activated sludge reactors. Bioresource Technology, 2009, 100, 31-37.	4.8	50
67	An investigation on the physical, chemical and ecotoxicological characteristics of particulate matter emitted from light-duty vehicles. Environmental Pollution, 2009, 157, 2320-2327.	3.7	61
68	Toxicological and ecotoxic impact of secondary and tertiary treated sewage effluents. Water Research, 2009, 43, 5063-5074.	5.3	30
69	Characterisation and treatment of leachates from the municipal sanitary landfill of Thessaloniki, Greece. International Journal of Environment and Waste Management, 2009, 4, 385.	0.2	4
70	Effect of activated carbons modification on porosity, surface structure and phenol adsorption. Journal of Hazardous Materials, 2008, 151, 414-421.	6.5	215
71	Investigation of sewage sludge stabilization potential by the addition of fly ash and lime. Journal of Hazardous Materials, 2008, 154, 1052-1059.	6.5	117
72	Application of a membrane sequencing batch reactor for landfill leachate treatment. Desalination, 2008, 221, 483-493.	4.0	72

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73	Monitoring of industrial effluent ecotoxicity in the greater Thessaloniki area. <i>Desalination</i> , 2008, 224, 261-270.	4.0	36
74	Comparison of Efficiency between Polyaluminium Chloride and Aluminium Sulphate Coagulants during Full-scale Experiments in a Drinking Water Treatment Plant. <i>Separation Science and Technology</i> , 2008, 43, 1507-1519.	1.3	37
75	Influence of ozonation on the in vitro mutagenic and toxic potential of secondary effluents. <i>Water Research</i> , 2008, 42, 4929-4940.	5.3	75
76	Evaluation of leaching and ecotoxicological properties of sewage sludge-fly ash mixtures. <i>Environmental Research</i> , 2008, 106, 340-348.	3.7	28
77	Bioassays and biomarkers for ecotoxicological assessment of reclaimed municipal wastewater. <i>Water Science and Technology</i> , 2008, 57, 947-953.	1.2	10
78	Study of phytotoxic properties of sewage sludge stabilised by alkaline mediums. , 2008, , .		2
79	Potential Ozone Applications for Water/Wastewater Treatment. <i>Separation Science and Technology</i> , 2007, 42, 1433-1446.	1.3	18
80	Comparison of single and dual media filtration in a full-scale drinking water treatment plant. <i>Desalination</i> , 2007, 213, 334-342.	4.0	48
81	The effects of toxic substances on the activated sludge microfauna. <i>Desalination</i> , 2007, 211, 177-191.	4.0	54
82	Advances in mathematical modelling of biofilm structures. <i>WIT Transactions on Ecology and the Environment</i> , 2007, , .	0.0	0
83	Appropriate combination of physico-chemical methods (coagulation/flocculation and ozonation) for the efficient treatment of landfill leachates. <i>Chemosphere</i> , 2006, 62, 722-730.	4.2	124
84	The effect of coagulation on the toxicity and mutagenicity of reclaimed municipal effluents. <i>Chemosphere</i> , 2006, 65, 1007-1018.	4.2	22
85	Interactive toxic effects of heavy metals and humic acids on <i>Vibrio fischeri</i> . <i>Ecotoxicology and Environmental Safety</i> , 2006, 63, 158-167.	2.9	121
86	Application of leaching tests for toxicity evaluation of coal fly ash. <i>Environmental Toxicology</i> , 2006, 21, 409-416.	2.1	43
87	Ecotoxicological properties of wastewater treated using tertiary methods. <i>Environmental Toxicology</i> , 2006, 21, 417-424.	2.1	36
88	Wastewater reclamation by advanced treatment of secondary effluents. <i>Desalination</i> , 2006, 195, 109-118.	4.0	84
89	Photocatalytic and sonolytic oxidation of acid orange 7 in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 159-168.	10.8	116
90	Bioavailability and Toxicity of Heavy Metals in the Presence of Natural Organic Matter. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2006, 41, 1509-1517.	0.9	45

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91	Toxic and interactive toxic effects of agrochemical substances and copper on <i>Vibrio fischeri</i> . WIT Transactions on Ecology and the Environment, 2006, , .	0.0	4
92	Toxicity of atmospheric particulate matter using aquatic bioassays. WIT Transactions on Biomedicine and Health, 2006, , .	0.0	2
93	Toxicity assessment of fothiazate, metalaxyl-M and imidacloprid and their interaction with copper on <i>Daphnia magna</i> . WIT Transactions on Biomedicine and Health, 2006, , .	0.0	1
94	Comparison of Several Toxicity Tests Applied to Complex Wastewaters and Mussel Biomarkers in Receiving Waters. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2005, 40, 1525-1541.	0.9	9
95	Electrochemical oxidation of olive oil mill wastewaters. Water Research, 2005, 39, 4177-4187.	5.3	188
96	Toxic Properties of Metals and Organotin Compounds and Their Interactions on <i>Daphnia magna</i> and <i>Vibrio fischeri</i> . Water, Air and Soil Pollution, 2004, 4, 101-110.	0.8	25
97	Coagulationâ€“flocculation pretreatment of sanitary landfill leachates. Chemosphere, 2003, 53, 737-744.	4.2	370
98	Using Bioassays for Testing Seawater Quality in Greece. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2003, 38, 533-544.	0.9	5
99	Emissions monitoring during coal waste wood co-combustion in an industrial steam boiler. Fuel, 2002, 81, 547-554.	3.4	47
100	PCDD/F inhibition by prior addition of urea to the solid fuel in laboratory experiments and results statistical evaluation. Chemosphere, 2001, 42, 737-743.	4.2	25
101	Toxic emissions during co-combustion of biomassâ€“waste woodâ€“lignite blends in an industrial boiler. Chemosphere, 2001, 43, 751-755.	4.2	20
102	STATISTICAL EVALUATION OF PCDD/F EMISSION DATA DURING SOLID WASTE COMBUSTION BY FUZZY CLUSTERING TECHNIQUES. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2001, 36, 153-161.	0.9	8
103	PCDD/F Prevention by Novel Inhibitors:Â Addition of Inorganic S- and N-Compounds in the Fuel before Combustion. Environmental Science & Technology, 2000, 34, 5092-5096.	4.6	67
104	Production, characterization and applications of carbon molecular sieves from a high ash Greek lignite. Studies in Surface Science and Catalysis, 1999, 120, 425-457.	1.5	3
105	Interactive toxic effects of agrochemicals on aquatic organisms. Water Science and Technology, 1999, 40, 357.	1.2	28
106	Combined treatment of landfill leachate and domestic sewage in a sequencing batch reactor. Water Science and Technology, 1997, 36, 61.	1.2	49
107	The effect of mineral matter and pyrolysis conditions on the gasification of Greek lignite by carbon dioxide. Fuel, 1996, 75, 1108-1114.	3.4	68
108	Acid treatment of lignite and its effect on activation. Carbon, 1994, 32, 771-776.	5.4	18

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109	The effect of demineralization on lignite activation. Carbon, 1991, 29, 1181-1190.	5.4	19
110	Evaluation of public perception on key sustainability indicators for drinking water quality by fuzzy logic methodologies. , 0, 170, 378-393.		6
111	The use of a submerged membrane batch reactor (S.M.B.R) for co-treatment of landfill leachates and domestic wastewater. , 0, 39, 284-290.		0
112	Evaluation of the operation performance of a municipal activated sludge unit. , 0, 39, 271-277.		0
113	The third International Conference on Small and Decentralized Water and Wastewater Treatment Plants (SWAT-III) - Editorial. , 0, 39, 190-191.		0
114	Recent progress in the advanced oxidation of wastewaters using recycled fly ashes as alternative catalytic agents. , 0, 133, 392-306.		0