

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	Coagulation-flocculation pretreatment of sanitary landfill leachates. <i>Chemosphere</i> , 2003, 53, 737-744.	4.2	370
2	Effect of activated carbons modification on porosity, surface structure and phenol adsorption. <i>Journal of Hazardous Materials</i> , 2008, 151, 414-421.	6.5	215
3	Electrochemical oxidation of olive oil mill wastewaters. <i>Water Research</i> , 2005, 39, 4177-4187.	5.3	188
4	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
5	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
6	Investigation of sewage sludge stabilization potential by the addition of fly ash and lime. <i>Journal of Hazardous Materials</i> , 2008, 154, 1052-1059.	6.5	117
7	Photocatalytic and sonolytic oxidation of acid orange 7 in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 159-168.	10.8	116
8	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
9	A multi-criteria assessment of scenarios on thermal processing of infectious hospital wastes: A case study for Central Macedonia. <i>Waste Management</i> , 2010, 30, 251-262.	3.7	94
10	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
11	Wastewater reclamation by advanced treatment of secondary effluents. <i>Desalination</i> , 2006, 195, 109-118.	4.0	84
12	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
13	Application of a membrane sequencing batch reactor for landfill leachate treatment. <i>Desalination</i> , 2008, 221, 483-493.	4.0	72
14	The effect of mineral matter and pyrolysis conditions on the gasification of Greek lignite by carbon dioxide. <i>Fuel</i> , 1996, 75, 1108-1114.	3.4	68
15	PCDD/F Prevention by Novel Inhibitors: Addition of Inorganic S- and N-Compounds in the Fuel before Combustion. <i>Environmental Science & Technology</i> , 2000, 34, 5092-5096.	4.6	67
16	An investigation on the physical, chemical and ecotoxicological characteristics of particulate matter emitted from light-duty vehicles. <i>Environmental Pollution</i> , 2009, 157, 2320-2327.	3.7	61
17	The effects of toxic substances on the activated sludge microfauna. <i>Desalination</i> , 2007, 211, 177-191.	4.0	54
18	Evaluation of a novel quorum quenching strain for MBR biofouling mitigation. <i>Water Research</i> , 2018, 143, 56-65.	5.3	53

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19	Comparative study of phenol and cyanide containing wastewater in CSTR and SBR activated sludge reactors. <i>Bioresource Technology</i> , 2009, 100, 31-37.	4.8	50
20	Combined treatment of landfill leachate and domestic sewage in a sequencing batch reactor. <i>Water Science and Technology</i> , 1997, 36, 61.	1.2	49
21	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
22	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
23	Emissions monitoring during coal waste wood co-combustion in an industrial steam boiler. <i>Fuel</i> , 2002, 81, 547-554.	3.4	47
24	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
25	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
26	Application of leaching tests for toxicity evaluation of coal fly ash. <i>Environmental Toxicology</i> , 2006, 21, 409-416.	2.1	43
27	Effect of hexavalent chromium on the activated sludge process and on the sludge protozoan community. <i>Bioresource Technology</i> , 2009, 100, 38-43.	4.8	41
28	Mechanism of SMP aggregation within the pores of hydrophilic and hydrophobic MBR membranes and aggregates detachment. <i>Separation and Purification Technology</i> , 2018, 202, 119-129.	3.9	41
29	Comparison of Efficiency between Polyaluminium Chloride and Aluminium Sulphate Coagulants during Fullscale Experiments in a Drinking Water Treatment Plant. <i>Separation Science and Technology</i> , 2008, 43, 1507-1519.	1.3	37
30	Ecotoxicological properties of wastewater treated using tertiary methods. <i>Environmental Toxicology</i> , 2006, 21, 417-424.	2.1	36
31	Monitoring of industrial effluent ecotoxicity in the greater Thessaloniki area. <i>Desalination</i> , 2008, 224, 261-270.	4.0	36
32	Cellular-automata and individual-based approaches for the modeling of biofilm structures: Pros and cons. <i>Desalination</i> , 2010, 250, 390-394.	4.0	36
33	An innovative bioreactor set-up that reduces membrane fouling by adjusting the filamentous bacterial population. <i>Journal of Membrane Science</i> , 2017, 542, 430-438.	4.1	36
34	Effect of ultrasonic and ozonation pretreatment on methane production potential of raw molasses wastewater. <i>Renewable Energy</i> , 2016, 96, 1078-1085.	4.3	35
35	LCA of a Membrane Bioreactor Compared to Activated Sludge System for Municipal Wastewater Treatment. <i>Membranes</i> , 2020, 10, 421.	1.4	32
36	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

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37	Toxicological and ecotoxic impact of secondary and tertiary treated sewage effluents. <i>Water Research</i> , 2009, 43, 5063-5074.	5.3	30
38	Investigation of protozoa as indicators of wastewater treatment efficiency in constructed wetlands. <i>Desalination</i> , 2010, 250, 378-382.	4.0	30
39	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
40	Production and use of biochar from lignin and lignin-rich residues (such as digestate and olive) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	2.6	30
41	Interactive toxic effects of agrochemicals on aquatic organisms. <i>Water Science and Technology</i> , 1999, 40, 357.	1.2	28
42	Evaluation of leaching and ecotoxicological properties of sewage sludge-fly ash mixtures. <i>Environmental Research</i> , 2008, 106, 340-348.	3.7	28
43	Enhancement of the performance of a combined microalgae-activated sludge system for the treatment of high strength molasses wastewater. <i>Journal of Environmental Management</i> , 2016, 183, 126-132.	3.8	28
44	PCDD/F inhibition by prior addition of urea to the solid fuel in laboratory experiments and results statistical evaluation. <i>Chemosphere</i> , 2001, 42, 737-743.	4.2	25
45	Toxic Properties of Metals and Organotin Compounds and Their Interactions on <i>Daphnia magna</i> and <i>Vibrio fischeri</i> . <i>Water, Air and Soil Pollution</i> , 2004, 4, 101-110.	0.8	25
46	Evaluation of sewage sludge production and utilization in Greece in the frame of integrated energy recovery. <i>Desalination and Water Treatment</i> , 2011, 33, 185-193.	1.0	24
47	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
48	The effect of coagulation on the toxicity and mutagenicity of reclaimed municipal effluents. <i>Chemosphere</i> , 2006, 65, 1007-1018.	4.2	22
49	Toxic emissions during co-combustion of biomass-waste wood-lignite blends in an industrial boiler. <i>Chemosphere</i> , 2001, 43, 751-755.	4.2	20
50	Evaluation of interactions between soil and coal fly ash leachates using column percolation tests. <i>Waste Management</i> , 2015, 43, 255-263.	3.7	20
51	The effect of demineralization on lignite activation. <i>Carbon</i> , 1991, 29, 1181-1190.	5.4	19
52	Combined Effect of Colloids and SMP on Membrane Fouling in MBRs. <i>Membranes</i> , 2020, 10, 118.	1.4	19
53	Acid treatment of lignite and its effect on activation. <i>Carbon</i> , 1994, 32, 771-776.	5.4	18
54	Potential Ozone Applications for Water/Wastewater Treatment. <i>Separation Science and Technology</i> , 2007, 42, 1433-1446.	1.3	18

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55	Properties and Performance of Novel Mg(OH) ₂ -Based Coatings for Corrosion Mitigation in Concrete Sewer Pipes. <i>Materials</i> , 2020, 13, 5291.	1.3	18
56	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
57	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
58	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
59	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. <i>Desalination and Water Treatment</i> , 2010, 22, 244-257.	1.0	15
60	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
61	Biodegradation and decolorization of melanoidin solutions by manganese peroxidase yeasts. <i>Water Science and Technology</i> , 2016, 73, 2436-2445.	1.2	14
62	Membrane Fouling Controlled by Adjustment of Biological Treatment Parameters in Step-Aerating MBR. <i>Membranes</i> , 2021, 11, 553.	1.4	13
63	Biocorrosion of Concrete Sewers in Greece: Current Practices and Challenges. <i>Sustainability</i> , 2020, 12, 2638.	1.6	12
64	Estimation of Energy Recovery Potential from Primary Residues of Four Municipal Wastewater Treatment Plants. <i>Sustainability</i> , 2021, 13, 7198.	1.6	12
65	Bioassays and biomarkers for ecotoxicological assessment of reclaimed municipal wastewater. <i>Water Science and Technology</i> , 2008, 57, 947-953.	1.2	10
66	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
67	Start-up and steady-state results of a UASB reactor treating high pH baker's yeast molasses wastewater for methane production. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 775-780.	1.6	10
68	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
69	Comparison of Several Toxicity Tests Applied to Complex Wastewaters and Mussel Biomarkers in Receiving Waters. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005, 40, 1525-1541.	0.9	9
70	The use of steelmaking slag for sewage sludge stabilization. <i>Desalination and Water Treatment</i> , 2015, 55, 1697-1702.	1.0	9
71	Experimental study of degradation of molasses wastewater by biological treatment combined with ozonation. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 857-864.	1.6	9
72	STATISTICAL EVALUATION OF PCDD/F EMISSION DATA DURING SOLID WASTE COMBUSTION BY FUZZY CLUSTERING TECHNIQUES. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2001, 36, 153-161.	0.9	8

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73	Treatment efficiency and sludge characteristics in conventional and suspended PVA gel beads activated sludge treating Cr (VI) containing wastewater. <i>Desalination and Water Treatment</i> , 2010, 23, 199-205.	1.0	8
74	Effect of municipal waste water effluent upon the expression of Glutathione S-transferase isoenzymes of brine shrimp <i>Artemia</i> . <i>Chemosphere</i> , 2011, 84, 105-109.	4.2	8
75	Microalgae-activated sludge treatment of molasses wastewater in sequencing batch photo-bioreactor. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1120-1126.	1.2	8
76	Contribution to the Sustainable Management of Resources by Novel Combination of Industrial Solid Residues into Red Ceramics. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015, 94, 345-351.	1.3	7
77	Quantitative and Qualitative Analysis of Biomass from Agro-industrial Processes in the Central Macedonia Region, Greece. <i>Waste and Biomass Valorization</i> , 2016, 7, 383-395.	1.8	7
78	Energy Benchmarking and Optimization of Wastewater Treatment Plants in Greece. <i>Environmental Sciences Proceedings</i> , 2020, 2, 36.	0.3	7
79	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
80	Effectiveness of ozonation and chlorination on municipal wastewater treatment evaluated by a battery of bioassays and biomarkers. <i>Water Science and Technology</i> , 2009, 60, 1497-1505.	1.2	6
81	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
82	Evaluation of public perception on key sustainability indicators for drinking water quality by fuzzy logic methodologies. , 0, 170, 378-393.		6
83	Using Bioassays for Testing Seawater Quality in Greece. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2003, 38, 533-544.	0.9	5
84	Seasonal variation in microbiological and physicochemical characteristics of municipal wastewater in Al-Sharqiya province, Egypt (case study). <i>Desalination and Water Treatment</i> , 2016, 57, 2355-2364.	1.0	5
85	Least Cost Analysis for Biocorrosion Mitigation Strategies in Concrete Sewers. <i>Sustainability</i> , 2020, 12, 4578.	1.6	5
86	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
87	Characterisation and treatment of leachates from the municipal sanitary landfill of Thessaloniki, Greece. <i>International Journal of Environment and Waste Management</i> , 2009, 4, 385.	0.2	4
88	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
89	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
90	The Inclusion of Acidic and Stormwater Flows in Concrete Sewer Corrosion Mitigation Studies. <i>Water (Switzerland)</i> , 2021, 13, 261.	1.2	4

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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	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
93	Evaluation of the operation performance of a municipal activated sludge unit. Desalination and Water Treatment, 2012, 39, 271-277.	1.0	3
94	Utilization of a multi-parameter sensor network for online monitoring of the water quality in the lignite mining area of Kozani, Greece. Desalination and Water Treatment, 2013, 51, 2977-2986.	1.0	3
95	Indicators and options towards sustainability in industrial areas. International Journal of Innovation and Sustainable Development, 2013, 7, 215.	0.3	3
96	Removal of Toxic Materials from Aqueous Streams. , 2015, , 443-473.		3
97	The Dissolved Oxygen Effect on the Controlled Growth of Filamentous Microorganisms in Membrane Bioreactors. Environmental Sciences Proceedings, 2020, 2, .	0.3	3
98	2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE). Desalination and Water Treatment, 2011, 33, 1-2.	1.0	2
99	Effects of influent composition on activated sludge protozoa. Desalination and Water Treatment, 2011, 33, 132-139.	1.0	2
100	A test for adequate wastewater treatment based on glutathione S transferase isoenzyme profile. Ecotoxicology and Environmental Safety, 2013, 90, 46-51.	2.9	2
101	Toxicity of atmospheric particulate matter using aquatic bioassays. WIT Transactions on Biomedicine and Health, 2006, , .	0.0	2
102	Study of phytotoxic properties of sewage sludge stabilised by alkaline mediums. , 2008, , .		2
103	Artificial destratification of Dipotamos reservoir in Northern Greece by low energy air injection. Water Science and Technology: Water Supply, 2013, 13, 1046-1055.	1.0	1
104	Novel Approaches for Biocorrosion Mitigation in Sewer Systems. Chemistry, 2021, 3, 1166-1177.	0.9	1
105	Toxicity assessment of fosthiazate, metalaxyl-M and imidacloprid and their interaction with copper on <i>Daphnia magna</i> . WIT Transactions on Biomedicine and Health, 2006, , .	0.0	1
106	1st EWaS-MED International Conference on Improving Efficiency of Water Systems in a Changing Natural and Financial Environment 11â€“13 April 2013, Thessaloniki, Greece. Desalination and Water Treatment, 2015, 54, 2057-2058.	1.0	0
107	12th International Conference on Protection and Restoration of the Environment (PRE XII) Skiathos Island, Greece, 29 Juneâ€“3 July, 2014. Desalination and Water Treatment, 2016, 57, 11435-11435.	1.0	0
108	Advances in mathematical modelling of biofilm structures. WIT Transactions on Ecology and the Environment, 2007, , .	0.0	0

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109	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
110	Evaluation of the operation performance of a municipal activated sludge unit. , 0, 39, 271-277.		0
111	The third International Conference on Small and Decentralized Water and Wastewater Treatment Plants (SWAT-III) - Editorial. , 0, 39, 190-191.		0
112	ROLE OF EXTRACELLULAR POLYMERIC SUBSTANCES ON TWO BIOLOGICAL REACTORS PERFORMANCE TREATING PHENOL. Environmental Engineering and Management Journal, 2017, 16, 1843-1852.	0.2	0
113	Recent progress in the advanced oxidation of wastewaters using recycled fly ashes as alternative catalytic agents. , 0, 133, 392-306.		0
114	Quorum Quenching as an Anti-biofouling Strategy for Wastewater Reuse and Biofouling Affected Industries. , 2020, , 321-333.		0