Dimitrios V Vayenas

List of Publications by Year
in descending order

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101	3,689	101535	155644
papers	citations	36 h-index	55 g-index

105	105	105	3939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrocoagulation as a revived wastewater treatment methodâ€practical approaches: a review. Journal of Chemical Technology and Biotechnology, 2022, 97, 9-25.	3.2	23
2	Using raw and thermally modified fibrous clay minerals as low concentration NH4+â€“N adsorbents. Environmental Science and Pollution Research, 2022, 29, 17737-17756.	5.3	3
3	Pilot-scale hybrid system combining hydrodynamic cavitation and sedimentation for the decolorization of industrial inks and printing ink wastewater. Journal of Environmental Management, 2022, 302, 114108.	7.8	7
4	Enhanced electrochemical removal of sulfadiazine using stainless steel electrode coated with activated algal biochar. Journal of Environmental Management, 2022, 306, 114535.	7.8	13
5	Treatment of printing ink wastewater using a continuous flow electrocoagulation reactor. Journal of Environmental Management, 2022, 314, 115033.	7.8	12
6	Cultivation of Arthrospira platensis in Brewery Wastewater. Water (Switzerland), 2022, 14, 1547.	2.7	11
7	Printing ink wastewater treatment using combined hydrodynamic cavitation and pH fixation. Journal of Environmental Management, 2022, 317, 115404.	7.8	3
8	Agro-Industrial Wastewater Treatment with Decentralized Biological Treatment Methods. Water (Switzerland), 2021, 13, 953.	2.7	6
9	Combined electrocoagulation and electrochemical oxidation treatment for groundwater denitrification. Journal of Environmental Management, 2021, 285, 112068.	7.8	16
10	Nitrate removal from groundwater using a batch and continuous flow hybrid Fe-electrocoagulation and electrooxidation system. Journal of Environmental Management, 2021, 297, 113387.	7.8	13
11	Treatment of real industrial-grade dye solutions and printing ink wastewater using a novel pilot-scale hydrodynamic cavitation reactor. Journal of Environmental Management, 2021, 297, 113301.	7.8	21
12	A Cyanobacteria-Based Biofilm System for Advanced Brewery Wastewater Treatment. Applied Sciences (Switzerland), 2021, 11, 174.	2.5	13
13	Brewery wastewater treatment using cyanobacterial-bacterial settleable aggregates. Algal Research, 2020, 49, 101957.	4.6	32
14	Two-step treatment of brewery wastewater using electrocoagulation and cyanobacteria-based cultivation. Journal of Environmental Management, 2020, 265, 110543.	7.8	29
15	Treatment of table olive processing wastewaters using electrocoagulation in laboratory and pilot-scale reactors. Chemical Engineering Research and Design, 2019, 131, 38-47.	5.6	29
16	A hybrid system for groundwater denitrification using electrocoagulation and adsorption. Journal of Environmental Management, 2019, 249, 109355.	7.8	18
17	Second Cheese Whey Treatment Using Zeolite under Continuous Flow Mode and Its Application on Wheat Growth. Water (Switzerland), 2019, 11, 928.	2.7	10
18	Zeolite as a Potential Medium for Ammonium Recovery and Second Cheese Whey Treatment. Water (Switzerland), 2019, 11, 136.	2.7	56

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19	Treatment of printing ink wastewater using electrocoagulation. Journal of Environmental Management, 2019, 237, 442-448.	7.8	77
20	A Leptolyngbya-based microbial consortium for agro-industrial wastewaters treatment and biodiesel production. Environmental Science and Pollution Research, 2018, 25, 17957-17966.	5.3	44
21	Data on cellular lipids of Yarrowia lipolytica grown on fatty substrates. Data in Brief, 2018, 21, 1037-1044.	1.0	10
22	Agroindustrial Wastewater Treatment with Simultaneous Biodiesel Production in Attached Growth Systems Using a Mixed Microbial Culture. Water (Switzerland), 2018, 10, 1693.	2.7	29
23	Biomodification of fats and oils and scenarios of adding value on renewable fatty materials through microbial fermentations: Modelling and trials with Yarrowia lipolytica. Journal of Cleaner Production, 2018, 200, 1111-1129.	9.3	38
24	Simultaneous Treatment of Agro-Industrial and Industrial Wastewaters: Case Studies of Cr(VI)/Second Cheese Whey and Cr(VI)/Winery Effluents. Water (Switzerland), 2018, 10, 382.	2.7	7
25	Treatment of table olive washing water using trickling filters, constructed wetlands and electrooxidation. Environmental Science and Pollution Research, 2017, 24, 1085-1092.	5.3	34
26	Biotreatment of raisin and winery wastewaters and simultaneous biodiesel production using a Leptolyngbya -based microbial consortium. Journal of Cleaner Production, 2017, 148, 185-193.	9.3	71
27	Electrochemical treatment of biologically pre-treated dairy wastewater using dimensionally stable anodes. Journal of Environmental Management, 2017, 202, 217-224.	7.8	38
28	A novel horizontal subsurface flow constructed wetland: Reducing area requirements and clogging risk. Chemosphere, 2017, 186, 257-268.	8.2	58
29	Integrated biological treatment of olive mill waste combining aerobic biological treatment, constructed wetlands, and composting. , 2017, , 139-159.		7
30	Cocomposting of olive mill waste for the production of soil amendments. , 2017, , 161-182.		21
31	Treatment of second cheese whey effluents using aChoricystis-based system with simultaneous lipid production. Journal of Chemical Technology and Biotechnology, 2016, 91, 2349-2359.	3.2	41
32	Ethanol and hydrogen production from sunflower straw: The effect of pretreatment on the whole slurry fermentation. Biochemical Engineering Journal, 2016, 116, 65-74.	3.6	55
33	Effect of C/N ratio and support material on heterotrophic denitrification of potable water in bio-filters using sugar as carbon source. International Biodeterioration and Biodegradation, 2016, 111, 62-73.	3.9	44
34	A hybrid system comprising an aerobic biological process and electrochemical oxidation for the treatment of black table olive processing wastewaters. International Biodeterioration and Biodegradation, 2016, 109, 104-112.	3.9	22
35	Effect of hydraulic retention time, temperature, and organic load on a horizontal subsurface flow constructed wetland treating cheese whey wastewater. Journal of Chemical Technology and Biotechnology, 2016, 91, 726-732.	3.2	40
36	Aerobic biological treatment of second cheese whey in suspended and attached growth reactors. Journal of Chemical Technology and Biotechnology, 2015, 90, 2040-2049.	3.2	28

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37	Is physicochemical evaluation enough to characterize olive mill waste compost as soil amendment? The case of genotoxicity and cytotoxicity evaluation. Journal of Cleaner Production, 2015, 93, 94-102.	9.3	28
38	Lipid production by the filamentous cyanobacterium Limnothrix sp. growing in synthetic wastewater in suspended- and attached-growth photobioreactor systems. Annals of Microbiology, 2015, 65, 1941-1948.	2.6	46
39	Mathematical modeling of olive mill waste composting process. Waste Management, 2015, 43, 61-71.	7.4	34
40	Chemical Pretreatment of Sunflower Straw Biomass: The Effect on Chemical Composition and Structural Changes. Waste and Biomass Valorization, 2015, 6, 733-746.	3.4	38
41	Integrated Cr(VI) removal using constructed wetlands and composting. Journal of Hazardous Materials, 2015, 281, 106-113.	12.4	42
42	Molasses as an efficient low-cost carbon source for biological Cr(VI) removal. Journal of Hazardous Materials, 2015, 281, 95-105.	12.4	38
43	Start-up of a free water surface constructed wetland for treating olive mill wastewater. Hemijska Industrija, 2015, 69, 577-583.	0.7	10
44	Constructed wetlands in the treatment of agro-industrial wastewater: A review. Hemijska Industrija, 2015, 69, 127-142.	0.7	28
45	Chromium removal in constructed wetlands: A review. International Biodeterioration and Biodegradation, 2014, 96, 181-190.	3.9	73
46	Composting of three phase olive mill solid waste using different bulking agents. International Biodeterioration and Biodegradation, 2014, 91, 66-73.	3.9	26
47	Treatment of olive mill wastewater using a coagulation-flocculation process either as a single step or as post-treatment after aerobic biological treatment. Journal of Chemical Technology and Biotechnology, 2014, 89, 1866-1874.	3.2	33
48	Olive mill waste composting: A review. International Biodeterioration and Biodegradation, 2013, 85, 108-119.	3.9	139
49	Removal of ammonium, iron and manganese from potable water in biofiltration units: a review. Journal of Chemical Technology and Biotechnology, 2013, 88, 751-773.	3.2	138
50	Modelling of biological Cr(VI) removal in draw-fill reactors using microorganisms in suspended and attached growth systems. Water Research, 2013, 47, 623-636.	11.3	64
51	Biological Cr(VI) removal using bio-filters and constructed wetlands. Water Science and Technology, 2013, 68, 2228-2233.	2.5	18
52	Effect of environmental and operating conditions on a full-scale trickling filter for well water treatment. Desalination and Water Treatment, 2012, 39, 228-234.	1.0	6
53	Olive-Mill Wastewater Bacterial Communities Display a Cultivar Specific Profile. Current Microbiology, 2012, 64, 197-203.	2.2	34
54	Bacterial diversity in Cr(VI) and Cr(III)-contaminated industrial wastewaters. Extremophiles, 2012, 16, 285-296.	2.3	34

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55	Potable water hydrogenotrophic denitrification in packed-bed bioreactors coupled with a solar-electrolysis hydrogen production system. Desalination and Water Treatment, 2011, 33, 86-96.	1.0	20
56	Mathematical Modelling of Bacterial Populations in Bio-remediation Processes. , 2011, , .		0
57	A fullâ€scale system for aerobic biological treatment of olive mill wastewater. Journal of Chemical Technology and Biotechnology, 2011, 86, 888-892.	3.2	29
58	Modeling of singleâ€cell oil production under nitrogenâ€limited and substrate inhibition conditions. Biotechnology and Bioengineering, 2011, 108, 1049-1055.	3.3	101
59	Treatment of olive mill wastewater in pilot-scale vertical flow constructed wetlands. Ecological Engineering, 2011, 37, 931-939.	3.6	78
60	Composting of olive leaves and pomace from a three-phase olive mill plant. International Biodeterioration and Biodegradation, 2011, 65, 560-564.	3.9	32
61	The effect of carbon source on microbial community structure and Cr(VI) reduction rate. Biotechnology and Bioengineering, 2010, 107, 478-487.	3.3	28
62	A fullâ€scale trickling filter for the simultaneous removal of ammonium, iron and manganese from potable water. Journal of Chemical Technology and Biotechnology, 2010, 85, 1023-1026.	3.2	15
63	Hydrogenotrophic denitrification of potable water: A review. Journal of Hazardous Materials, 2010, 180, 20-37.	12.4	291
64	Dynamics of a chemostat with three competitive hydrogen oxidizing denitrifying microbial populations and their efficiency for denitrification. Ecological Modelling, 2009, 220, 1169-1180.	2.5	7
65	Experimental and modelling study of drinking water hydrogenotrophic denitrification in packed-bed reactors. Journal of Hazardous Materials, 2009, 165, 812-824.	12.4	45
66	Complex dynamics of microbial competition in the gradostat. Journal of Biotechnology, 2009, 139, 38-46.	3.8	21
67	Hydrogenotrophic denitrification of drinking water using packed-bed reactors. Desalination, 2009, 248, 859-868.	8.2	9
68	Simultaneous phenol removal and biological reduction of hexavalent chromium in a packedâ€bed reactor. Journal of Chemical Technology and Biotechnology, 2008, 83, 829-835.	3.2	24
69	Biological Cr(VI) reduction in a trickling filter under continuous operation with recirculation. Journal of Chemical Technology and Biotechnology, 2008, 83, 871-877.	3.2	11
70	Biological manganese removal from potable water using trickling filters. Biochemical Engineering Journal, 2008, 38, 292-301.	3.6	52
71	Simultaneous biological removal of ammonia, iron and manganese from potable water using a trickling filter. Biochemical Engineering Journal, 2008, 39, 215-220.	3.6	70
72	Modelling of biological phenol removal in draw-fill reactors using suspended and attached growth olive pulp bacteria. International Biodeterioration and Biodegradation, 2008, 61, 142-150.	3.9	9

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73	A kinetic study of combined aerobic biological phenol and nitrate removal in batch suspended growth cultures. International Biodeterioration and Biodegradation, 2008, 61, 261-271.	3.9	22
74	Dynamics of free-living nitrogen-fixing bacterial populations and nitrogen fixation in a two-preyâ€“one-predator system. Ecological Modelling, 2008, 218, 323-338.	2.5	4
75	Effect of the specific surface area and operating mode on biological phenol removal using packed bed reactors. Desalination, 2007, 211, 128-137.	8.2	14
76	Biological removal of hexavalent chromium in trickling filters operating with different filter media types. Desalination, 2007, 211, 156-163.	8.2	16
77	Ammonia, iron and manganese removal from potable water using trickling filters. Desalination, 2007, 210, 225-235.	8.2	89
78	Aerobic biological treatment of olive mill wastewater by olive pulp bacteria. International Biodeterioration and Biodegradation, 2007, 60, 209-214.	3.9	47
79	A kinetic study of biological Cr(VI) reduction in trickling filters with different filter media types. Journal of Hazardous Materials, 2007, 145, 256-262.	12.4	11
80	Dynamics of free-living nitrogen-fixing bacterial populations in antagonistic conditions. Ecological Modelling, 2007, 200, 243-253.	2.5	11
81	Physico-chemical and biological iron removal from potable water. Biochemical Engineering Journal, 2006, 31, 74-83.	3.6	47
82	Kinetics of pure cultures of hydrogen-oxidizing denitrifying bacteria and modeling of the interactions among them in mixed cultures. Biotechnology and Bioengineering, 2006, 95, 513-525.	3.3	51
83	Biological chromium(VI) reduction using a trickling filter. Journal of Hazardous Materials, 2005, 126, 78-85.	12.4	89
84	Biological phenol removal using suspended growth and packed bed reactors. Biochemical Engineering Journal, 2005, 26, 65-71.	3.6	73
85	Preyâ€“predator dynamics with predator switching regulated by a catabolic repression control mode. Ecological Modelling, 2005, 183, 451-462.	2.5	16
86	Dynamics of a two-preyâ€“one-predator system with predator switching regulated by a catabolic repression control-like mode. Ecological Modelling, 2005, 186, 345-357.	2.5	8
87	Simulation of the thermodynamics and removal processes in the sulfate-ammonia-nitric acid system during winter: Implications for PM2.5control strategies. Journal of Geophysical Research, 2005, 110, .	3.3	46
88	Modeling the diurnal variation of nitrate during the Pittsburgh Air Quality Study. Journal of Geophysical Research, 2004, 109, .	3.3	61
89	Operational and Design Considerations of a Trickling Filter for Ammonia Removal from Potable Water. Environmental Modeling and Assessment, 2003, 8, 55-62.	2.2	9
90	Visualization experiments of biodegradation in porous media and calculation of the biodegradation rate. Advances in Water Resources, 2002, 25, 203-219.	3.8	40

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91	Chaotic dynamics of a microbial system of coupled food chains. Ecological Modelling, 2001, 136, 285-295.	2.5	28
92	Coexistence of three microbial populations competing for three complementary nutrients in a chemostat. Mathematical Biosciences, 1999, 161, 1-13.	1.9	5
93	Chaotic dynamics of a food web in a chemostat. Mathematical Biosciences, 1999, 162, 69-84.	1.9	35
94	Influence of iron overload on manganese, zinc, and copper concentration in rat tissues in vivo: study of liver, spleen, and brain. International Journal of Clinical and Laboratory Research, 1998, 28, 183-186.	1.0	30
95	Oscillations of two competing microbial populations in configurations of two interconnected chemostats. Mathematical Biosciences, 1998, 148, 43-63.	1.9	19
96	On the coexistence of three microbial populations competing for two complementary substrates in configurations of interconnected chemostats. Mathematical Biosciences, 1998, 154, 87-102.	1.9	4
97	Removal of Mn and simultaneous removal of NH3, Fe and Mn from potable water using a trickling filter. Water Research, 1998, 32, 2442-2450.	11.3	99
98	Removal of iron from potable water using a trickling filter. Water Research, 1997, 31, 991-996.	11.3	64
99	Development of a dynamic model describing nitritification and nitratification in trickling filters. Water Research, 1997, 31, 1135-1147.	11.3	49
100	On the design of nitrifying trickling filters for potable water treatment. Water Research, 1995, 29, 1079-1084.	11.3	13
101	A novel model for nitrifying trickling filters. Water Research, 1994, 28, 1275-1284.	11.3	32