Christopher Paul Saint

List of Publications by Year
in descending order

105	11,287	44042 48	31818 101
papers	citations	h-index	g-index

105	105	105	14784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review of Enzyme Induced Carbonate Precipitation (EICP): The Role of Enzyme Kinetics. Sustainable Chemistry, 2021, 2, 92-114.	2.2	41
2	Efficiency of Graphene-Based Forward Osmosis Membranes. , 2020, , 309-334.		0
3	Occurrence, removal and environmental risk of markers of five drugs of abuse in urban wastewater systems in South Australia. Environmental Science and Pollution Research, 2019, 26, 33816-33826.	2.7	16
4	Understanding the Removal and Fate of Selected Drugs of Abuse in Sludge and Biosolids from Australian Wastewater Treatment Operations. Engineering, 2019, 5, 872-879.	3.2	13
5	Aquatic Phytotoxicity to Lemna minor of Three Commonly Used Drugs of Addiction in Australia. Bulletin of Environmental Contamination and Toxicology, 2019, 103, 710-716.	1.3	1
6	Transformation pathway and toxicity assessment of malathion in aqueous solution during UV photolysis and photocatalysis. Chemosphere, 2019, 234, 204-214.	4.2	50
7	Label-Free Bacterial Toxin Detection in Water Supplies Using Porous Silicon Nanochannel Sensors. ACS Sensors, 2019, 4, 1515-1523.	4.0	40
8	Fluorescence Excitation-Emission Spectroscopy: An Analytical Technique to Monitor Drugs of Addiction in Wastewater. Water (Switzerland), 2019, 11, 377.	1.2	8
9	Removal of emerging drugs of addiction by wastewater treatment and water recycling processes and impacts on effluent-associated environmental risk. Science of the Total Environment, 2019, 680, 13-22.	3.9	29
10	Nanostructured Electrochemical Biosensors for Label-Free Detection of Water- and Food-Borne Pathogens. ACS Applied Materials & Interfaces, 2018, 10, 6055-6072.	4.0	115
11	Innovative graphene microbial platforms for domestic wastewater treatment. Reviews in Environmental Science and Biotechnology, 2018, 17, 147-158.	3.9	15
12	Blue-Green Water Nexus in Aquaculture for Resilience to Climate Change. Reviews in Fisheries Science and Aquaculture, 2018, 26, 139-154.	5.1	13
13	Analysis of chromium status in the revegetated flora of a tannery waste site and microcosm studies using earthworm E. fetida. Environmental Science and Pollution Research, 2018, 25, 5063-5070.	2.7	11
14	Electrochemical Biosensing of Algal Toxins in Water: The Current State-of-the-Art. ACS Sensors, 2018, 3, 1233-1245.	4.0	40
15	Assessment of chromium hyper-accumulative behaviour using biochemical analytical techniques of greenhouse cultivated Sonchus asper on tannery waste dump site soils. Environmental Science and Pollution Research, 2018, 25, 26992-26999.	2.7	5
16	Development of a buried bag technique to study biochars incorporated in a compost or composting medium. Journal of Soils and Sediments, 2017, 17, 656-664.	1.5	7
17	Overlooked effects of organic solvents from sample preparation on reaction constants of micropollutants in UV-based advanced oxidation processes. Chemical Engineering Journal, 2017, 313, 801-806.	6.6	6
18	Evaluation of Methylated Silica Solid-Phase Extraction Sorbent to Retain a Surfactant in the Detection of Pesticides in Water Using Ultra-Performance Liquid Chromatographyâ€“Tandem Mass Spectrometry. Chromatographia, 2017, 80, 247-257.	0.7	2

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19	A Novel Fabrication Approach for Multifunctional Graphene-based Thin Film Nano-composite Membranes with Enhanced Desalination and Antibacterial Characteristics. Scientific Reports, 2017, 7, 7490.	1.6	22
20	Occurrence of illicit drugs in water and wastewater and their removal during wastewater treatment. Water Research, 2017, 124, 713-727.	5.3	82
21	Applications of graphene in microbial fuel cells: The gap between promise and reality. Renewable and Sustainable Energy Reviews, 2017, 72, 1389-1403.	8.2	148
22	Electrochemical detection of Nâ€nitrosodimethylamine using a molecular imprinted polymer. Sensors and Actuators B: Chemical, 2016, 237, 613-620.	4.0	30
23	The controversial antibacterial activity of graphene-based materials. Carbon, 2016, 105, 362-376.	5.4	249
24	Stress responses and specific metal exclusion on mine soils based on germination and growth studies by Australian golden wattle. Ecological Indicators, 2016, 71, 113-122.	2.6	4
25	Impact of prechlorination on organophosphorus pesticides during drinking water treatment: Removal and transformation to toxic oxon byproducts. Water Research, 2016, 105, 1-10.	5.3	43
26	Remediation of metalliferous mines, revegetation challenges and emerging prospects in semi-arid and arid conditions. Environmental Science and Pollution Research, 2016, 23, 20131-20150.	2.7	24
27	Metal bioavailability to Eisenia fetida through copper mine dwelling animal and plant litter, a new challenge on contaminated environment remediation. International Biodeterioration and Biodegradation, 2016, 113, 208-216.	1.9	20
28	Single-Step Assembly of Multifunctional Poly(tannic acid)â€“Graphene Oxide Coating To Reduce Biofouling of Forward Osmosis Membranes. ACS Applied Materials & Interfaces, 2016, 8, 17519-17528.	4.0	66
29	Porous silicon membrane-modified electrodes for label-free voltammetric detection of MS2 bacteriophage. Biosensors and Bioelectronics, 2016, 80, 47-53.	5.3	37
30	Evaluation of physicochemical methods in enhancing the adsorption performance of natural zeolite as low-cost adsorbent of methylene blue dye from wastewater. Journal of Cleaner Production, 2016, 118, 197-209.	4.6	127
31	Effective in-situ chemical surface modification of forward osmosis membranes with polydopamine-induced graphene oxide for biofouling mitigation. Desalination, 2016, 385, 126-137.	4.0	91
32	Reclaimed Water Systems: Biodiversity Friend or Foe?. ACS Symposium Series, 2015, , 355-374.	0.5	0
33	Phosphorus Recovery and Reuse from Waste Streams. Advances in Agronomy, 2015, 131, 173-250.	2.4	89
34	Determination of Volatile Disinfection Byproducts in Water by Gas Chromatographyâ€“Triple Quadrupole Mass Spectrometry. Analytical Letters, 2015, 48, 188-203.	1.0	14
35	Fine-Tuning the Surface of Forward Osmosis Membranes via Grafting Graphene Oxide: Performance Patterns and Biofouling Propensity. ACS Applied Materials & Interfaces, 2015, 7, 18004-18016.	4.0	101
36	The role of methanol addition to water samples in reducing analyte adsorption and matrix effects in liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2015, 1389, 76-84.	1.8	16

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37	UV and UV/H2O2 treatment of diazinon and its influence on disinfection byproduct formation following chlorination. Chemical Engineering Journal, 2015, 274, 39-49.	6.6	34
38	Optimising diet decisions and urban agriculture using linear programming. Food Security, 2014, 6, 701-718.	2.4	26
39	Electrochemical Biosensors Featuring Oriented Antibody Immobilization via Electrografted and Self-Assembled Hydrazide Chemistry. Analytical Chemistry, 2014, 86, 1422-1429.	3.2	46
40	Can integrated aquaculture-agriculture (IAA) produce â€œmore crop per dropâ€?. Food Security, 2014, 6, 767-779.	2.4	48
41	A genetic and metabolic approach to redirection of biochemical pathways of Clostridium butyricum for enhancing hydrogen production. Biotechnology and Bioengineering, 2013, 110, 338-342.	1.7	50
42	Removal of cyanobacterial metabolites through wastewater treatment plant filters. Water Science and Technology, 2012, 65, 1244-1251.	1.2	6
43	Feasibility study on the application of advanced oxidation technologies for decentralised wastewater treatment. Journal of Cleaner Production, 2012, 35, 230-238.	4.6	105
44	Assessing granular media filtration for the removal of chemical contaminants from wastewater. Water Research, 2011, 45, 3461-3472.	5.3	53
45	Genetic manipulation of butyrate formation pathways in Clostridium butyricum. Journal of Biotechnology, 2011, 155, 269-274.	1.9	56
46	EXPRESSION OF THE GEOSMIN SYNTHASE GENE IN THE CYANOBACTERIUM ANABAENA CIRCINALIS AWQC318¹. Journal of Phycology, 2011, 47, 1338-1343.	1.0	21
47	Metabolic flux network and analysis of fermentative hydrogen production. Biotechnology Advances, 2011, 29, 375-387.	6.0	108
48	Evaluating the photodegradation of Carbamazepine in a sequential batch photoreactor system: Impacts of effluent organic matter and inorganic ions. Chemical Engineering Journal, 2011, 174, 595-602.	6.6	48
49	Using H-titanate nanofiber catalysts for water disinfection: Understanding and modelling of the inactivation kinetics and mechanisms. Chemical Engineering Science, 2011, 66, 6525-6535.	1.9	13
50	Bacterial inactivation kinetics of a photo-disinfection system using novel titania-impregnated kaolinite photocatalyst. Chemical Engineering Journal, 2011, 171, 16-23.	6.6	58
51	Investigations into the biodegradation of microcystin-LR in wastewaters. Journal of Hazardous Materials, 2010, 180, 628-633.	6.5	81
52	Bacterial inactivation kinetics, regrowth and synergistic competition in a photocatalytic disinfection system using anatase titanate nanofiber catalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 214, 1-9.	2.0	30
53	Metabolic flux analysis of hydrogen production network by Clostridium butyricum W5: Effect of pH and glucose concentrations. International Journal of Hydrogen Energy, 2010, 35, 6681-6690.	3.8	77
54	Development of a pilot fluidised bed reactor system with a formulated clayâ€“lime mixture for continuous removal of chemical pollutants from wastewater. Chemical Engineering Journal, 2010, 158, 535-541.	6.6	14

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55	Recent developments in photocatalytic water treatment technology: A review. Water Research, 2010, 44, 2997-3027.	5.3	4,343
56	An adsorptionâ€“photocatalysis hybrid process using multi-functional-nanoporous materials for wastewater reclamation. Water Research, 2010, 44, 5385-5397.	5.3	85
57	Development of an mlrA Gene-Directed TaqMan PCR Assay for Quantitative Assessment of Microcystin-Degrading Bacteria within Water Treatment Plant Sand Filter Biofilms. Applied and Environmental Microbiology, 2009, 75, 5167-5169.	1.4	46
58	Kinetic study and equilibrium isotherm analysis of Congo Red adsorption by clay materials. Chemical Engineering Journal, 2009, 148, 354-364.	6.6	784
59	Synthesis and characterisation of novel titania impregnated kaolinite nano-photocatalyst. Microporous and Mesoporous Materials, 2009, 117, 233-242.	2.2	109
60	Biochemical kinetics of fermentative hydrogen production by Clostridium butyricum W5. International Journal of Hydrogen Energy, 2009, 34, 791-798.	3.8	31
61	Enhancing removal efficiency of anionic dye by combination and calcination of clay materials and calcium hydroxide. Journal of Hazardous Materials, 2009, 171, 941-947.	6.5	66
62	Optimisation of an annular photoreactor process for degradation of Congo Red using a newly synthesized titania impregnated kaolinite nano-photocatalyst. Separation and Purification Technology, 2009, 67, 355-363.	3.9	116
63	Application of H-titanate nanofibers for degradation of Congo Red in an annular slurry photoreactor. Chemical Engineering Journal, 2009, 150, 49-54.	6.6	64
64	Adsorption of congo red by three Australian kaolins. Applied Clay Science, 2009, 43, 465-472.	2.6	243
65	Enhancing the biofiltration of geosmin by seeding sand filter columns with a consortium of geosmin-degrading bacteria. Water Research, 2009, 43, 433-440.	5.3	68
66	Biodegradation of geosmin by a novel Gram-negative bacterium; isolation, phylogenetic characterisation and degradation rate determination. Water Research, 2009, 43, 2927-2935.	5.3	44
67	An examination of the antibiotic effects of cylindrospermopsin on common gram-positive and gram-negative bacteria and the protozoanNaegleria lovaniensis. Environmental Toxicology, 2008, 23, 36-43.	2.1	18
68	FACS enrichment and identification of floc-associated alphaproteobacterial tetrad-forming organisms in an activated sludge community. FEMS Microbiology Letters, 2008, 285, 130-135.	0.7	11
69	Development and field testing of a real-time PCR assay for cylindrospermopsin-producing cyanobacteria. Journal of Applied Microbiology, 2008, 104, 1503-1515.	1.4	90
70	Effect of water treatment processes on Cryptosporidium infectivity. Water Research, 2008, 42, 1805-1811.	5.3	17
71	Isolation and Characterization of the Gene Associated with Geosmin Production in Cyanobacteria. Environmental Science & Technology, 2008, 42, 8027-8032.	4.6	106
72	Removal of geosmin and 2-methylisoborneol through biologically active sand filters. International Journal of Environment and Waste Management, 2007, 1, 311.	0.2	21

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73	Degradation of Microcystin-LR through Biological Sand Filters. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2007, 11, 191-196.	0.4	11
74	Isolation and identification of a novel microcystin-degrading bacterium from a biological sand filter. Water Research, 2007, 41, 4685-4695.	5.3	143
75	Biodegradation rates of 2-methylisoborneol (MIB) and geosmin through sand filters and in bioreactors. Chemosphere, 2007, 66, 2210-2218.	4.2	135
76	The isolation and microbial community analysis of hydrogen producing bacteria from activated sludge. Journal of Applied Microbiology, 2007, 103, 1415-1423.	1.4	52
77	Use of DNA melting simulation software for in silico diagnostic assay design: targeting regions with complex melting curves and confirmation by real-time PCR using intercalating dyes. BMC Bioinformatics, 2007, 8, 107.	1.2	46
78	Linearization of CMOS Broadband Power Amplifiers Through Combined Multigated Transistors and Capacitance Compensation. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2320-2328.	2.9	85
79	A Fully Integrated Broadband Power Amplifier with Two-dimensional Linearization. , 2006, , .		3
80	Bacterial degradation of microcystin toxins within a biologically active sand filter. Water Research, 2006, 40, 768-774.	5.3	129
81	Biological filtration for the removal of algal metabolites from drinking water. Water Science and Technology: Water Supply, 2006, 6, 153-159.	1.0	4
82	Cooperative biodegradation of geosmin by a consortium comprising three gram-negative bacteria isolated from the biofilm of a sand filter column. Letters in Applied Microbiology, 2006, 43, 417-423.	1.0	54
83	Isolates of â€˜Candidatus Nostocoida limicolaâ€™ Blackall et al. 2000 should be described as three novel species of the genus Tetrasphaera, as Tetrasphaera jenkinsii sp. nov., Tetrasphaera vanveenii sp. nov. and Tetrasphaera veronensis sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 2279-2290.	0.8	56
84	Comparison of SYTO9 and SYBR Green I for real-time polymerase chain reaction and investigation of the effect of dye concentration on amplification and DNA melting curve analysis. Analytical Biochemistry, 2005, 340, 24-34.	1.1	245
85	Profiling bacterial survival through a water treatment process and subsequent distribution system. Journal of Applied Microbiology, 2005, 99, 175-186.	1.4	124
86	Environmental Temperature Controls Cryptosporidium Oocyst Metabolic Rate and Associated Retention of Infectivity. Applied and Environmental Microbiology, 2005, 71, 3848-3857.	1.4	90
87	Legionella Confirmation Using Real-Time PCR and SYTO9 Is an Alternative to Current Methodology. Applied and Environmental Microbiology, 2005, 71, 8944-8948.	1.4	28
88	Culture-Independent Techniques for Rapid Detection of Bacteria Associated with Loss of Chloramine Residual in a Drinking Water System. Applied and Environmental Microbiology, 2005, 71, 6479-6488.	1.4	95
89	Multiplex PCR assay forCylindrospermopsis raciborskii and cylindrospermopsin-producing cyanobacteria. Environmental Toxicology, 2003, 18, 120-125.	2.1	104
90	Cell Culture-Taqman PCR Assay for Evaluation of Cryptosporidium parvum Disinfection. Applied and Environmental Microbiology, 2003, 69, 2505-2511.	1.4	67

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91	A comparative study of carboxyfluorescein diacetate and carboxyfluorescein diacetate succinimidyl ester as indicators of bacterial activity. Journal of Microbiological Methods, 2003, 52, 379-388.	0.7	119
92	Enumeration of water-borne bacteria using viability assays and flow cytometry: a comparison to culture-based techniques. Journal of Microbiological Methods, 2003, 55, 585-597.	0.7	173
93	Demonstration of preferential binding of SYBR Green I to specific DNA fragments in real-time multiplex PCR. Nucleic Acids Research, 2003, 31, 136e-136.	6.5	207
94	Molecular biology techniques in parasite ecology. International Journal for Parasitology, 2002, 32, 551-562.	1.3	40
95	Development of a nested-PCR assay for the detection of cryptosporidium parvum in finished water. Water Research, 2001, 35, 1641-1648.	5.3	41
96	Development of glucosidase agar for the confirmation of water-borne Enterococcus. Water Research, 2001, 35, 4243-4246.	5.3	13
97	Preliminary evidence of toxicity associated with the benthic cyanobacteriumPhormidium in South Australia. Environmental Toxicology, 2001, 16, 506-511.	2.1	50
98	Identification of genes implicated in toxin production in the cyanobacteriumCylindrospermopsis raciborskii. Environmental Toxicology, 2001, 16, 413-421.	2.1	242
99	Rapid Confirmation of Clostridium perfringens by Using Chromogenic and Fluorogenic Substrates. Applied and Environmental Microbiology, 2001, 67, 4382-4384.	1.4	32
100	Molecular Phylogeny of Anabaena circinalis and Its Identification in Environmental Samples by PCR. Applied and Environmental Microbiology, 2000, 66, 4145-4148.	1.4	48
101	Molecular Characterization of the Toxic Cyanobacterium Cylindrospermopsis raciborskii and Design of a Species-Specific PCR. Applied and Environmental Microbiology, 2000, 66, 332-338.	1.4	120
102	A PCR test for the identification and discrimination of Legionella longbeachae serogroups 1 and 2. Journal of Microbiological Methods, 1999, 37, 245-253.	0.7	13
103	Legionella longbeachae isolated from water. Medical Journal of Australia, 1998, 168, 96-96.	0.8	2
104	pTIM3, a Plasmid Delivery Vector for a Transposon-Based Inducible Marker Gene System in Gram-Negative Bacteria. Plasmid, 1995, 34, 165-174.	0.4	5
105	A Novel and Rapid Legionella Detection System for Water Analysis. , 0, , 453-455.		0