

# Christopher Paul Saint

## List of Publications by Year in descending order

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105  
papers

11,287  
citations

44069

48  
h-index

31849

101  
g-index

105  
all docs

105  
docs citations

105  
times ranked

14784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in photocatalytic water treatment technology: A review. <i>Water Research</i> , 2010, 44, 2997-3027.	11.3	4,343
2	Kinetic study and equilibrium isotherm analysis of Congo Red adsorption by clay materials. <i>Chemical Engineering Journal</i> , 2009, 148, 354-364.	12.7	784
3	The controversial antibacterial activity of graphene-based materials. <i>Carbon</i> , 2016, 105, 362-376.	10.3	249
4	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. <i>Analytical Biochemistry</i> , 2005, 340, 24-34.	2.4	245
5	Adsorption of congo red by three Australian kaolins. <i>Applied Clay Science</i> , 2009, 43, 465-472.	5.2	243
6	Identification of genes implicated in toxin production in the cyanobacterium <i>Cylindrospermopsis raciborskii</i> . <i>Environmental Toxicology</i> , 2001, 16, 413-421.	4.0	242
7	Demonstration of preferential binding of SYBR Green I to specific DNA fragments in real-time multiplex PCR. <i>Nucleic Acids Research</i> , 2003, 31, 136e-136.	14.5	207
8	Enumeration of water-borne bacteria using viability assays and flow cytometry: a comparison to culture-based techniques. <i>Journal of Microbiological Methods</i> , 2003, 55, 585-597.	1.6	173
9	Applications of graphene in microbial fuel cells: The gap between promise and reality. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 1389-1403.	16.4	148
10	Isolation and identification of a novel microcystin-degrading bacterium from a biological sand filter. <i>Water Research</i> , 2007, 41, 4685-4695.	11.3	143
11	Biodegradation rates of 2-methylisoborneol (MIB) and geosmin through sand filters and in bioreactors. <i>Chemosphere</i> , 2007, 66, 2210-2218.	8.2	135
12	Bacterial degradation of microcystin toxins within a biologically active sand filter. <i>Water Research</i> , 2006, 40, 768-774.	11.3	129
13	Evaluation of physicochemical methods in enhancing the adsorption performance of natural zeolite as low-cost adsorbent of methylene blue dye from wastewater. <i>Journal of Cleaner Production</i> , 2016, 118, 197-209.	9.3	127
14	Profiling bacterial survival through a water treatment process and subsequent distribution system. <i>Journal of Applied Microbiology</i> , 2005, 99, 175-186.	3.1	124
15	Molecular Characterization of the Toxic Cyanobacterium <i>Cylindrospermopsis raciborskii</i> and Design of a Species-Specific PCR. <i>Applied and Environmental Microbiology</i> , 2000, 66, 332-338.	3.1	120
16	A comparative study of carboxyfluorescein diacetate and carboxyfluorescein diacetate succinimidyl ester as indicators of bacterial activity. <i>Journal of Microbiological Methods</i> , 2003, 52, 379-388.	1.6	119
17	Optimisation of an annular photoreactor process for degradation of Congo Red using a newly synthesized titania impregnated kaolinite nano-photocatalyst. <i>Separation and Purification Technology</i> , 2009, 67, 355-363.	7.9	116
18	Nanostructured Electrochemical Biosensors for Label-Free Detection of Water- and Food-Borne Pathogens. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6055-6072.	8.0	115

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19	Synthesis and characterisation of novel titania impregnated kaolinite nano-photocatalyst. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 233-242.	4.4	109
20	Metabolic flux network and analysis of fermentative hydrogen production. <i>Biotechnology Advances</i> , 2011, 29, 375-387.	11.7	108
21	Isolation and Characterization of the Gene Associated with Geosmin Production in Cyanobacteria. <i>Environmental Science &amp; Technology</i> , 2008, 42, 8027-8032.	10.0	106
22	Feasibility study on the application of advanced oxidation technologies for decentralised wastewater treatment. <i>Journal of Cleaner Production</i> , 2012, 35, 230-238.	9.3	105
23	Multiplex PCR assay for <i>Cylindrospermopsis raciborskii</i> and cylindrospermopsin-producing cyanobacteria. <i>Environmental Toxicology</i> , 2003, 18, 120-125.	4.0	104
24	Fine-Tuning the Surface of Forward Osmosis Membranes via Grafting Graphene Oxide: Performance Patterns and Biofouling Propensity. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18004-18016.	8.0	101
25	Culture-Independent Techniques for Rapid Detection of Bacteria Associated with Loss of Chloramine Residual in a Drinking Water System. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6479-6488.	3.1	95
26	Effective in-situ chemical surface modification of forward osmosis membranes with polydopamine-induced graphene oxide for biofouling mitigation. <i>Desalination</i> , 2016, 385, 126-137.	8.2	91
27	Environmental Temperature Controls <i>Cryptosporidium</i> Oocyst Metabolic Rate and Associated Retention of Infectivity. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3848-3857.	3.1	90
28	Development and field testing of a real-time PCR assay for cylindrospermopsin-producing cyanobacteria. <i>Journal of Applied Microbiology</i> , 2008, 104, 1503-1515.	3.1	90
29	Phosphorus Recovery and Reuse from Waste Streams. <i>Advances in Agronomy</i> , 2015, 131, 173-250.	5.2	89
30	Linearization of CMOS Broadband Power Amplifiers Through Combined Multigated Transistors and Capacitance Compensation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007, 55, 2320-2328.	4.6	85
31	An adsorption-photocatalysis hybrid process using multi-functional-nanoporous materials for wastewater reclamation. <i>Water Research</i> , 2010, 44, 5385-5397.	11.3	85
32	Occurrence of illicit drugs in water and wastewater and their removal during wastewater treatment. <i>Water Research</i> , 2017, 124, 713-727.	11.3	82
33	Investigations into the biodegradation of microcystin-LR in wastewaters. <i>Journal of Hazardous Materials</i> , 2010, 180, 628-633.	12.4	81
34	Metabolic flux analysis of hydrogen production network by <i>Clostridium butyricum</i> W5: Effect of pH and glucose concentrations. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6681-6690.	7.1	77
35	Enhancing the biofiltration of geosmin by seeding sand filter columns with a consortium of geosmin-degrading bacteria. <i>Water Research</i> , 2009, 43, 433-440.	11.3	68
36	Cell Culture-Taqman PCR Assay for Evaluation of <i>Cryptosporidium parvum</i> Disinfection. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2505-2511.	3.1	67

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37	Enhancing removal efficiency of anionic dye by combination and calcination of clay materials and calcium hydroxide. <i>Journal of Hazardous Materials</i> , 2009, 171, 941-947.	12.4	66
38	Single-Step Assembly of Multifunctional Poly(tannic acid)â€“Graphene Oxide Coating To Reduce Biofouling of Forward Osmosis Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17519-17528.	8.0	66
39	Application of H-titanate nanofibers for degradation of Congo Red in an annular slurry photoreactor. <i>Chemical Engineering Journal</i> , 2009, 150, 49-54.	12.7	64
40	Bacterial inactivation kinetics of a photo-disinfection system using novel titania-impregnated kaolinite photocatalyst. <i>Chemical Engineering Journal</i> , 2011, 171, 16-23.	12.7	58
41	Isolates of â€“Candidatus <i>Nostocoida limicola</i> â€™ Blackall et al. 2000 should be described as three novel species of the genus <i>Tetrasphaera</i> , as <i>Tetrasphaera jenkinsii</i> sp. nov., <i>Tetrasphaera vanveenii</i> sp. nov. and <i>Tetrasphaera veronensis</i> sp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 2279-2290.	1.7	56
42	Genetic manipulation of butyrate formation pathways in <i>Clostridium butyricum</i> . <i>Journal of Biotechnology</i> , 2011, 155, 269-274.	3.8	56
43	Cooperative biodegradation of geosmin by a consortium comprising three gram-negative bacteria isolated from the biofilm of a sand filter column. <i>Letters in Applied Microbiology</i> , 2006, 43, 417-423.	2.2	54
44	Assessing granular media filtration for the removal of chemical contaminants from wastewater. <i>Water Research</i> , 2011, 45, 3461-3472.	11.3	53
45	The isolation and microbial community analysis of hydrogen producing bacteria from activated sludge. <i>Journal of Applied Microbiology</i> , 2007, 103, 1415-1423.	3.1	52
46	Preliminary evidence of toxicity associated with the benthic cyanobacterium <i>Phormidium</i> in South Australia. <i>Environmental Toxicology</i> , 2001, 16, 506-511.	4.0	50
47	A genetic and metabolic approach to redirection of biochemical pathways of <i>Clostridium butyricum</i> for enhancing hydrogen production. <i>Biotechnology and Bioengineering</i> , 2013, 110, 338-342.	3.3	50
48	Transformation pathway and toxicity assessment of malathion in aqueous solution during UV photolysis and photocatalysis. <i>Chemosphere</i> , 2019, 234, 204-214.	8.2	50
49	Molecular Phylogeny of <i>Anabaena circinalis</i> and Its Identification in Environmental Samples by PCR. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4145-4148.	3.1	48
50	Evaluating the photodegradation of Carbamazepine in a sequential batch photoreactor system: Impacts of effluent organic matter and inorganic ions. <i>Chemical Engineering Journal</i> , 2011, 174, 595-602.	12.7	48
51	Can integrated aquaculture-agriculture (IAA) produce â€œmore crop per dropâ€?. <i>Food Security</i> , 2014, 6, 767-779.	5.3	48
52	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. <i>BMC Bioinformatics</i> , 2007, 8, 107.	2.6	46
53	Development of an <i>mlrA</i> Gene-Directed TaqMan PCR Assay for Quantitative Assessment of Microcystin-Degrading Bacteria within Water Treatment Plant Sand Filter Biofilms. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5167-5169.	3.1	46
54	Electrochemical Biosensors Featuring Oriented Antibody Immobilization via Electrografted and Self-Assembled Hydrazide Chemistry. <i>Analytical Chemistry</i> , 2014, 86, 1422-1429.	6.5	46

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55	Biodegradation of geosmin by a novel Gram-negative bacterium; isolation, phylogenetic characterisation and degradation rate determination. <i>Water Research</i> , 2009, 43, 2927-2935.	11.3	44
56	Impact of prechlorination on organophosphorus pesticides during drinking water treatment: Removal and transformation to toxic oxon byproducts. <i>Water Research</i> , 2016, 105, 1-10.	11.3	43
57	Development of a nested-PCR assay for the detection of cryptosporidium parvum in finished water. <i>Water Research</i> , 2001, 35, 1641-1648.	11.3	41
58	A Review of Enzyme Induced Carbonate Precipitation (EICP): The Role of Enzyme Kinetics. <i>Sustainable Chemistry</i> , 2021, 2, 92-114.	4.7	41
59	Molecular biology techniques in parasite ecology. <i>International Journal for Parasitology</i> , 2002, 32, 551-562.	3.1	40
60	Electrochemical Biosensing of Algal Toxins in Water: The Current State-of-the-Art. <i>ACS Sensors</i> , 2018, 3, 1233-1245.	7.8	40
61	Label-Free Bacterial Toxin Detection in Water Supplies Using Porous Silicon Nanochannel Sensors. <i>ACS Sensors</i> , 2019, 4, 1515-1523.	7.8	40
62	Porous silicon membrane-modified electrodes for label-free voltammetric detection of MS2 bacteriophage. <i>Biosensors and Bioelectronics</i> , 2016, 80, 47-53.	10.1	37
63	UV and UV/H <sub>2</sub> O <sub>2</sub> treatment of diazinon and its influence on disinfection byproduct formation following chlorination. <i>Chemical Engineering Journal</i> , 2015, 274, 39-49.	12.7	34
64	Rapid Confirmation of <i>Clostridium perfringens</i> by Using Chromogenic and Fluorogenic Substrates. <i>Applied and Environmental Microbiology</i> , 2001, 67, 4382-4384.	3.1	32
65	Biochemical kinetics of fermentative hydrogen production by <i>Clostridium butyricum</i> W5. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 791-798.	7.1	31
66	Bacterial inactivation kinetics, regrowth and synergistic competition in a photocatalytic disinfection system using anatase titanate nanofiber catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 214, 1-9.	3.9	30
67	Electrochemical detection of Nitrosodimethylamine using a molecular imprinted polymer. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 613-620.	7.8	30
68	Removal of emerging drugs of addiction by wastewater treatment and water recycling processes and impacts on effluent-associated environmental risk. <i>Science of the Total Environment</i> , 2019, 680, 13-22.	8.0	29
69	Legionella Confirmation Using Real-Time PCR and SYTO9 Is an Alternative to Current Methodology. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8944-8948.	3.1	28
70	Optimising diet decisions and urban agriculture using linear programming. <i>Food Security</i> , 2014, 6, 701-718.	5.3	26
71	Remediation of metalliferous mines, revegetation challenges and emerging prospects in semi-arid and arid conditions. <i>Environmental Science and Pollution Research</i> , 2016, 23, 20131-20150.	5.3	24
72	A Novel Fabrication Approach for Multifunctional Graphene-based Thin Film Nano-composite Membranes with Enhanced Desalination and Antibacterial Characteristics. <i>Scientific Reports</i> , 2017, 7, 7490.	3.3	22

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73	Removal of geosmin and 2-methylisoborneol through biologically active sand filters. <i>International Journal of Environment and Waste Management</i> , 2007, 1, 311.	0.3	21
74	EXPRESSION OF THE GEOSMIN SYNTHASE GENE IN THE CYANOBACTERIUM <i>ANABAENA CIRCINALIS</i> AWQC318 <sup>1</sup> . <i>Journal of Phycology</i> , 2011, 47, 1338-1343.	2.3	21
75	Metal bioavailability to <i>Eisenia fetida</i> through copper mine dwelling animal and plant litter, a new challenge on contaminated environment remediation. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 208-216.	3.9	20
76	An examination of the antibiotic effects of cylindrospermopsin on common gram-positive and gram-negative bacteria and the protozoan <i>Naegleria lovaniensis</i> . <i>Environmental Toxicology</i> , 2008, 23, 36-43.	4.0	18
77	Effect of water treatment processes on <i>Cryptosporidium</i> infectivity. <i>Water Research</i> , 2008, 42, 1805-1811.	11.3	17
78	The role of methanol addition to water samples in reducing analyte adsorption and matrix effects in liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1389, 76-84.	3.7	16
79	Occurrence, removal and environmental risk of markers of five drugs of abuse in urban wastewater systems in South Australia. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33816-33826.	5.3	16
80	Innovative graphene microbial platforms for domestic wastewater treatment. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 147-158.	8.1	15
81	Development of a pilot fluidised bed reactor system with a formulated clay-lime mixture for continuous removal of chemical pollutants from wastewater. <i>Chemical Engineering Journal</i> , 2010, 158, 535-541.	12.7	14
82	Determination of Volatile Disinfection Byproducts in Water by Gas Chromatography-Triple Quadrupole Mass Spectrometry. <i>Analytical Letters</i> , 2015, 48, 188-203.	1.8	14
83	A PCR test for the identification and discrimination of <i>Legionella longbeachae</i> serogroups 1 and 2. <i>Journal of Microbiological Methods</i> , 1999, 37, 245-253.	1.6	13
84	Development of glucosidase agar for the confirmation of water-borne <i>Enterococcus</i> . <i>Water Research</i> , 2001, 35, 4243-4246.	11.3	13
85	Using H-titanate nanofiber catalysts for water disinfection: Understanding and modelling of the inactivation kinetics and mechanisms. <i>Chemical Engineering Science</i> , 2011, 66, 6525-6535.	3.8	13
86	Blue-Green Water Nexus in Aquaculture for Resilience to Climate Change. <i>Reviews in Fisheries Science and Aquaculture</i> , 2018, 26, 139-154.	9.1	13
87	Understanding the Removal and Fate of Selected Drugs of Abuse in Sludge and Biosolids from Australian Wastewater Treatment Operations. <i>Engineering</i> , 2019, 5, 872-879.	6.7	13
88	Degradation of Microcystin-LR through Biological Sand Filters. <i>Practice Periodical of Hazardous, Toxic and Radioactive Waste Management</i> , 2007, 11, 191-196.	0.4	11
89	FACS enrichment and identification of floc-associated alphaproteobacterial tetrad-forming organisms in an activated sludge community. <i>FEMS Microbiology Letters</i> , 2008, 285, 130-135.	1.8	11
90	Analysis of chromium status in the revegetated flora of a tannery waste site and microcosm studies using earthworm <i>E. fetida</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 5063-5070.	5.3	11

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91	Fluorescence Excitation-Emission Spectroscopy: An Analytical Technique to Monitor Drugs of Addiction in Wastewater. <i>Water (Switzerland)</i> , 2019, 11, 377.	2.7	8
92	Development of a buried bag technique to study biochars incorporated in a compost or composting medium. <i>Journal of Soils and Sediments</i> , 2017, 17, 656-664.	3.0	7
93	Removal of cyanobacterial metabolites through wastewater treatment plant filters. <i>Water Science and Technology</i> , 2012, 65, 1244-1251.	2.5	6
94	Overlooked effects of organic solvents from sample preparation on reaction constants of micropollutants in UV-based advanced oxidation processes. <i>Chemical Engineering Journal</i> , 2017, 313, 801-806.	12.7	6
95	pTIM3, a Plasmid Delivery Vector for a Transposon-Based Inducible Marker Gene System in Gram-Negative Bacteria. <i>Plasmid</i> , 1995, 34, 165-174.	1.4	5
96	Assessment of chromium hyper-accumulative behaviour using biochemical analytical techniques of greenhouse cultivated <i>Sonchus asper</i> on tannery waste dump site soils. <i>Environmental Science and Pollution Research</i> , 2018, 25, 26992-26999.	5.3	5
97	Biological filtration for the removal of algal metabolites from drinking water. <i>Water Science and Technology: Water Supply</i> , 2006, 6, 153-159.	2.1	4
98	Stress responses and specific metal exclusion on mine soils based on germination and growth studies by Australian golden wattle. <i>Ecological Indicators</i> , 2016, 71, 113-122.	6.3	4
99	A Fully Integrated Broadband Power Amplifier with Two-dimensional Linearization. , 2006, , .		3
100	<i>Legionella longbeachae</i> isolated from water. <i>Medical Journal of Australia</i> , 1998, 168, 96-96.	1.7	2
101	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. <i>Chromatographia</i> , 2017, 80, 247-257.	1.3	2
102	Aquatic Phytotoxicity to <i>Lemna minor</i> of Three Commonly Used Drugs of Addiction in Australia. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 103, 710-716.	2.7	1
103	Reclaimed Water Systems: Biodiversity Friend or Foe?. <i>ACS Symposium Series</i> , 2015, , 355-374.	0.5	0
104	A Novel and Rapid <i>Legionella</i> Detection System for Water Analysis. , 0, , 453-455.		0
105	Efficiency of Graphene-Based Forward Osmosis Membranes. , 2020, , 309-334.		0