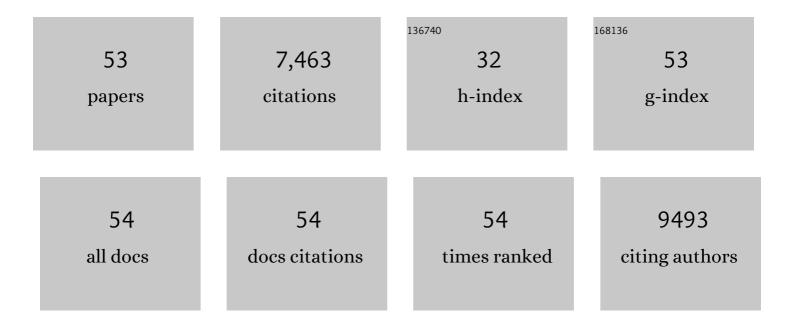
## **Christophe Merlin**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6827165/publications.pdf Version: 2024-02-01



CHRISTORNE MERLIN

#	Article	IF	CITATIONS
1	Urban wastewater treatment plants as hotspots for antibiotic resistant bacteria and genes spread into the environment: A review. Science of the Total Environment, 2013, 447, 345-360.	3.9	1,784
2	Tackling antibiotic resistance: the environmental framework. Nature Reviews Microbiology, 2015, 13, 310-317.	13.6	1,612
3	Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: A review. Water Research, 2013, 47, 957-995.	5.3	1,518
4	Antibiotic resistance genes in treated wastewater and in the receiving water bodies: A pan-European survey of urban settings. Water Research, 2019, 162, 320-330.	5.3	231
5	Why Is Carbonic Anhydrase Essential to Escherichia coli ?. Journal of Bacteriology, 2003, 185, 6415-6424.	1.0	210
6	Biocompatible and stable ZnOquantum dots generated by functionalization with siloxane-core PAMAM dendrons. Journal of Materials Chemistry, 2010, 20, 1147-1155.	6.7	141
7	Mobile Elements as a Combination of Functional Modules. Plasmid, 2002, 47, 26-35.	0.4	134
8	The Biphenyl- and 4-Chlorobiphenyl-Catabolic Transposon Tn 4371 , a Member of a New Family of Genomic Islands Related to IncP and Ti Plasmids. Applied and Environmental Microbiology, 2003, 69, 4837-4845.	1.4	101
9	The Escherichia coli metD Locus Encodes an ABC Transporter Which Includes Abc (MetN), YaeE (MetI), and YaeC (MetQ). Journal of Bacteriology, 2002, 184, 5513-5517.	1.0	96
10	The exposure of bacteria to CdTe-core quantum dots: the importance of surface chemistry on cytotoxicity. Nanotechnology, 2009, 20, 225101.	1.3	93
11	Tools for Characterization of Escherichia coli Genes of Unknown Function. Journal of Bacteriology, 2002, 184, 4573-4581.	1.0	86
12	Physicochemical properties and cellular toxicity of (poly)aminoalkoxysilanes-functionalized ZnO quantum dots. Nanotechnology, 2012, 23, 335101.	1.3	81
13	Aqueous Route to Biocompatible ZnSe:Mn/ZnO Core/Shell Quantum Dots Using 1-Thioglycerol As Stabilizer. Chemistry of Materials, 2011, 23, 3706-3713.	3.2	78
14	Impact of Internal RNA on Aggregation and Electrokinetics of Viruses: Comparison between MS2 Phage and Corresponding Virus-Like Particles. Applied and Environmental Microbiology, 2011, 77, 4939-4948.	1.4	77
15	Demonstrating plasmid-based horizontal gene transfer in complex environmental matrices: A practical approach for a critical review. Science of the Total Environment, 2014, 493, 872-882.	3.9	75
16	Bacterial Surface Appendages Strongly Impact Nanomechanical and Electrokinetic Properties of Escherichia coli Cells Subjected to Osmotic Stress. PLoS ONE, 2011, 6, e20066.	1.1	69
17	High Throughput Analysis of Integron Gene Cassettes in Wastewater Environments. Environmental Science & Technology, 2016, 50, 11825-11836.	4.6	68
18	Persistence and dissemination of the multiple-antibiotic-resistance plasmid pB10 in the microbial communities of wastewater sludge microcosms. Water Research, 2011, 45, 2897-2905.	5.3	63

CHRISTOPHE MERLIN

#	Article	IF	CITATIONS
19	Tn4371:A Modular Structure Encoding a Phage-like Integrase, aPseudomonas-like Catabolic Pathway, and RP4/Ti-like Transfer Functions. Plasmid, 1999, 41, 40-54.	0.4	56
20	Incidence of the core composition on the stability, the ROS production and the toxicity of CdSe quantum dots. Journal of Hazardous Materials, 2014, 268, 246-255.	6.5	55
21	A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. Environment International, 2020, 144, 106035.	4.8	55
22	Chronic impact of tetracycline on nitrification kinetics and the activity of enriched nitrifying microbial culture. Water Research, 2015, 72, 227-238.	5.3	50
23	Inducibility of Tn916 conjugative transfer in Enterococcus faecalis by subinhibitory concentrations of ribosome-targeting antibiotics. Journal of Antimicrobial Chemotherapy, 2017, 72, 2722-2728.	1.3	48
24	Stability and toxicity of ZnO quantum dots: Interplay between nanoparticles and bacteria. Journal of Hazardous Materials, 2015, 283, 110-116.	6.5	45
25	Inter-laboratory calibration of quantitative analyses of antibiotic resistance genes. Journal of Environmental Chemical Engineering, 2020, 8, 102214.	3.3	45
26	Cell-Free DNA: An Underestimated Source of Antibiotic Resistance Gene Dissemination at the Interface Between Human Activities and Downstream Environments in the Context of Wastewater Reuse. Frontiers in Microbiology, 2020, 11, 671.	1.5	45
27	A GntR-like negative regulator of the biphenyl degradation genes of the transposon Tn4371. Molecular Genetics and Genomics, 1999, 262, 790-799.	2.4	44
28	Comparison of seven methods for extraction of bacterial DNA from fecal and cecal samples of mice. Journal of Microbiological Methods, 2014, 105, 180-185.	0.7	44
29	Chronic impact of sulfamethoxazole on the metabolic activity and composition of enriched nitrifying microbial culture. Water Research, 2016, 100, 546-555.	5.3	43
30	Trace amounts of Cu 2+ ions influence ROS production and cytotoxicity of ZnO quantum dots. Journal of Hazardous Materials, 2016, 304, 532-542.	6.5	42
31	Organisation of the bph gene cluster of transposon Tn4371, encoding enzymes for the degradation of biphenyl and 4-chlorobiphenyl compounds. Molecular Genetics and Genomics, 1997, 253, 499-506.	2.4	36
32	Impact of certain household micropollutants on bacterial behavior. Toxicity tests/study of extracellular polymeric substances in sludge. Science of the Total Environment, 2013, 463-464, 355-365.	3.9	35
33	Occurrence of Tn 4371 -Related Mobile Elements and Sequences in (Chloro)biphenyl-Degrading Bacteria. Applied and Environmental Microbiology, 2001, 67, 42-50.	1.4	31
34	Monitoring the Dissemination of the Broad-Host-Range Plasmid pB10 in Sediment Microcosms by Quantitative PCR. Applied and Environmental Microbiology, 2010, 76, 378-382.	1.4	27
35	Reducing the Consumption of Antibiotics: Would That Be Enough to Slow Down the Dissemination of Resistances in the Downstream Environment?. Frontiers in Microbiology, 2020, 11, 33.	1.5	25
36	ZnO Nanorods with High Photocatalytic and Antibacterial Activity under Solar Light Irradiation. Materials, 2018, 11, 2158.	1.3	24

Christophe Merlin

#	Article	IF	CITATIONS
37	Patterned Hydrophobic Domains in the Exopolymer Matrix of Shewanella oneidensis MR-1 Biofilms. Applied and Environmental Microbiology, 2013, 79, 1400-1402.	1.4	23
38	Natural microbial communities supporting the transfer of the IncP-1β plasmid pB10 exhibit a higher initial content of plasmids from the same incompatibility group. Frontiers in Microbiology, 2014, 5, 637.	1.5	23
39	Comparing TiO2 photocatalysis and UV-C radiation for inactivation and mutant formation of Salmonella typhimurium TA102. Environmental Science and Pollution Research, 2017, 24, 1871-1879.	2.7	22
40	Zn2+ leakage and photo-induced reactive oxidative species do not explain the full toxicity of ZnO core Quantum Dots. Journal of Hazardous Materials, 2020, 396, 122616.	6.5	18
41	Polyethyleneimine-mediated flocculation of Shewanella oneidensis MR-1: Impacts of cell surface appendage and polymer concentration. Water Research, 2012, 46, 1838-1846.	5.3	17
42	Suspended Materials in River Waters Differentially Enrich Class 1 Integron- and IncP-1 Plasmid-Carrying Bacteria in Sediments. Frontiers in Microbiology, 2018, 9, 1443.	1.5	15
43	Improving the recovery of qPCR-grade DNA from sludge and sediment. Applied Microbiology and Biotechnology, 2010, 87, 2303-2311.	1.7	14
44	Characterization of a temperate phage hosted by Alcaligenes eutrophus strain A5. Research in Microbiology, 1993, 144, 627-631.	1.0	10
45	Abundance and environmental host range of the SXT/R391 ICEs in aquatic environmental communities. Environmental Pollution, 2021, 288, 117673.	3.7	8
46	Deciphering the aggregation mechanism of bacteria (Shewanella oneidensis MR1) in the presence of polyethyleneimine: Effects of the exopolymeric superstructure and polymer molecular weight. Colloids and Surfaces B: Biointerfaces, 2016, 139, 285-293.	2.5	7
47	EpicPCR 2.0: Technical and Methodological Improvement of a Cutting-Edge Single-Cell Genomic Approach. Microorganisms, 2021, 9, 1649.	1.6	7
48	Introduction of Pseudomonas aeruginosa mutator phage D3112 into Alcaligenes eutrophus strain CH34. Research in Microbiology, 1995, 146, 245-250.	1.0	5
49	Assessment of Damage to Nucleic Acids and Repair Machinery in <i>Salmonella typhimurium</i> Exposed to Chlorine. International Journal of Microbiology, 2009, 2009, 1-5.	0.9	4
50	Identification of antibiotics triggering the dissemination of antibiotic resistance genes by SXT/R391 elements using a dedicated high-throughput whole-cell biosensor assay. Journal of Antimicrobial Chemotherapy, 2021, 77, 112-123.	1.3	3
51	Atypical stress response to temperature and NaOCl exposure leading to septation defect during cell division inCupriavidus metalliduransCH34. FEMS Microbiology Letters, 2014, 353, 33-39.	0.7	2
52	F-Specific RNA Bacteriophage Transport in Stream Water: Hydro-Meteorological Controls and Association with Suspended Solids. Water (Switzerland), 2021, 13, 2250.	1.2	2
53	Tracking antibiotic resistance gene transfers in activated sludge reactors. Proceedings of the Water Environment Federation, 2008, 2008, 7524-7537.	0.0	0