

Christophe Merlin

List of Publications by Citations

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52
papers

5,594
citations

29
h-index

54
g-index

54
ext. papers

6,639
ext. citations

7.2
avg, IF

5.5
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 52 | Urban wastewater treatment plants as hotspots for antibiotic resistant bacteria and genes spread into the environment: a review. <i>Science of the Total Environment</i> , 2013 , 447, 345-60 | 10.2 | 1383 |
| 51 | Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: a review. <i>Water Research</i> , 2013 , 47, 957-95 | 12.5 | 1189 |
| 50 | Tackling antibiotic resistance: the environmental framework. <i>Nature Reviews Microbiology</i> , 2015 , 13, 310-7 | 22.2 | 1092 |
| 49 | Why is carbonic anhydrase essential to Escherichia coli?. <i>Journal of Bacteriology</i> , 2003 , 185, 6415-24 | 3.5 | 163 |
| 48 | Biocompatible and stable ZnO quantum dots generated by functionalization with siloxane-core PAMAM dendrons. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1147-1155 | | 122 |
| 47 | Antibiotic resistance genes in treated wastewater and in the receiving water bodies: A pan-European survey of urban settings. <i>Water Research</i> , 2019 , 162, 320-330 | 12.5 | 117 |
| 46 | Mobile elements as a combination of functional modules. <i>Plasmid</i> , 2002 , 47, 26-35 | 3.3 | 113 |
| 45 | The biphenyl- and 4-chlorobiphenyl-catabolic transposon Tn4371, a member of a new family of genomic islands related to IncP and Ti plasmids. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 4837-48 | 4.8 | 91 |
| 44 | The exposure of bacteria to CdTe-core quantum dots: the importance of surface chemistry on cytotoxicity. <i>Nanotechnology</i> , 2009 , 20, 225101 | 3.4 | 83 |
| 43 | The Escherichia coli metD locus encodes an ABC transporter which includes Abc (MetN), YaeE (MetI), and YaeC (MetQ). <i>Journal of Bacteriology</i> , 2002 , 184, 5513-7 | 3.5 | 80 |
| 42 | Aqueous Route to Biocompatible ZnSe:Mn/ZnO Core/Shell Quantum Dots Using 1-Thioglycerol As Stabilizer. <i>Chemistry of Materials</i> , 2011 , 23, 3706-3713 | 9.6 | 74 |
| 41 | Tools for characterization of Escherichia coli genes of unknown function. <i>Journal of Bacteriology</i> , 2002 , 184, 4573-81 | 3.5 | 69 |
| 40 | Physicochemical properties and cellular toxicity of (poly)aminoalkoxysilanes-functionalized ZnO quantum dots. <i>Nanotechnology</i> , 2012 , 23, 335101 | 3.4 | 64 |
| 39 | Bacterial surface appendages strongly impact nanomechanical and electrokinetic properties of Escherichia coli cells subjected to osmotic stress. <i>PLoS ONE</i> , 2011 , 6, e20066 | 3.7 | 59 |
| 38 | High Throughput Analysis of Integron Gene Cassettes in Wastewater Environments. <i>Environmental Science & Technology</i> , 2016 , 50, 11825-11836 | 10.3 | 59 |
| 37 | Impact of internal RNA on aggregation and electrokinetics of viruses: comparison between MS2 phage and corresponding virus-like particles. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 4939-48 | 4.8 | 58 |
| 36 | Demonstrating plasmid-based horizontal gene transfer in complex environmental matrices: a practical approach for a critical review. <i>Science of the Total Environment</i> , 2014 , 493, 872-82 | 10.2 | 57 |

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| 35 | Persistence and dissemination of the multiple-antibiotic-resistance plasmid pB10 in the microbial communities of wastewater sludge microcosms. <i>Water Research</i> , 2011 , 45, 2897-905 | 12.5 | 55 |
| 34 | Tn4371: A modular structure encoding a phage-like integrase, a Pseudomonas-like catabolic pathway, and RP4/Ti-like transfer functions. <i>Plasmid</i> , 1999 , 41, 40-54 | 3.3 | 51 |
| 33 | Incidence of the core composition on the stability, the ROS production and the toxicity of CdSe quantum dots. <i>Journal of Hazardous Materials</i> , 2014 , 268, 246-55 | 12.8 | 46 |
| 32 | Chronic impact of tetracycline on nitrification kinetics and the activity of enriched nitrifying microbial culture. <i>Water Research</i> , 2015 , 72, 227-38 | 12.5 | 41 |
| 31 | A GntR-like negative regulator of the biphenyl degradation genes of the transposon Tn4371. <i>Molecular Genetics and Genomics</i> , 1999 , 262, 790-9 | | 41 |
| 30 | Stability and toxicity of ZnO quantum dots: interplay between nanoparticles and bacteria. <i>Journal of Hazardous Materials</i> , 2015 , 283, 110-6 | 12.8 | 38 |
| 29 | Comparison of seven methods for extraction of bacterial DNA from fecal and cecal samples of mice. <i>Journal of Microbiological Methods</i> , 2014 , 105, 180-5 | 2.8 | 32 |
| 28 | Inducibility of Tn916 conjugative transfer in <i>Enterococcus faecalis</i> by subinhibitory concentrations of ribosome-targeting antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2017 , 72, 2722-2728 | 5.1 | 32 |
| 27 | Organisation of the bph gene cluster of transposon Tn4371, encoding enzymes for the degradation of biphenyl and 4-chlorobiphenyl compounds. <i>Molecular Genetics and Genomics</i> , 1997 , 253, 499-506 | | 30 |
| 26 | Chronic impact of sulfamethoxazole on the metabolic activity and composition of enriched nitrifying microbial culture. <i>Water Research</i> , 2016 , 100, 546-555 | 12.5 | 30 |
| 25 | Trace amounts of Cu ²⁺ ions influence ROS production and cytotoxicity of ZnO quantum dots. <i>Journal of Hazardous Materials</i> , 2016 , 304, 532-42 | 12.8 | 29 |
| 24 | Occurrence of Tn4371-related mobile elements and sequences in (chloro)biphenyl-degrading bacteria. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 42-50 | 4.8 | 29 |
| 23 | Inter-laboratory calibration of quantitative analyses of antibiotic resistance genes. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 102214 | 6.8 | 29 |
| 22 | Impact of certain household micropollutants on bacterial behavior. Toxicity tests/study of extracellular polymeric substances in sludge. <i>Science of the Total Environment</i> , 2013 , 463-464, 355-65 | 10.2 | 27 |
| 21 | 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. <i>Frontiers in Microbiology</i> , 2020 , 11, 671 | 5.7 | 22 |
| 20 | Monitoring the dissemination of the broad-host-range plasmid pB10 in sediment microcosms by quantitative PCR. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 378-82 | 4.8 | 22 |
| 19 | Patterned hydrophobic domains in the exopolymer matrix of <i>Shewanella oneidensis</i> MR-1 biofilms. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 1400-2 | 4.8 | 21 |
| 18 | A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. <i>Environment International</i> , 2020 , 144, 106035 | 12.9 | 17 |

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| 17 | ZnO Nanorods with High Photocatalytic and Antibacterial Activity under Solar Light Irradiation. <i>Materials</i> , 2018 , 11, | 3.5 | 16 |
| 16 | Reducing the Consumption of Antibiotics: Would That Be Enough to Slow Down the Dissemination of Resistances in the Downstream Environment?. <i>Frontiers in Microbiology</i> , 2020 , 11, 33 | 5.7 | 15 |
| 15 | Polyethyleneimine-mediated flocculation of <i>Shewanella oneidensis</i> MR-1: impacts of cell surface appendage and polymer concentration. <i>Water Research</i> , 2012 , 46, 1838-46 | 12.5 | 13 |
| 14 | Comparing TiO photocatalysis and UV-C radiation for inactivation and mutant formation of <i>Salmonella typhimurium</i> TA102. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 1871-1879 | 5.1 | 11 |
| 13 | Natural microbial communities supporting the transfer of the IncP-1 plasmid pB10 exhibit a higher initial content of plasmids from the same incompatibility group. <i>Frontiers in Microbiology</i> , 2014 , 5, 637 | 5.7 | 11 |
| 12 | Suspended Materials in River Waters Differentially Enrich Class 1 Integron- and IncP-1 Plasmid-Carrying Bacteria in Sediments. <i>Frontiers in Microbiology</i> , 2018 , 9, 1443 | 5.7 | 10 |
| 11 | Improving the recovery of qPCR-grade DNA from sludge and sediment. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 2303-11 | 5.7 | 10 |
| 10 | Zn leakage and photo-induced reactive oxidative species do not explain the full toxicity of ZnO core Quantum Dots. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122616 | 12.8 | 6 |
| 9 | Deciphering the aggregation mechanism of bacteria (<i>Shewanella oneidensis</i> MR1) in the presence of polyethyleneimine: Effects of the exopolymeric superstructure and polymer molecular weight. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 139, 285-93 | 6 | 6 |
| 8 | Characterization of a temperate phage hosted by <i>Alcaligenes eutrophus</i> strain A5. <i>Research in Microbiology</i> , 1993 , 144, 627-31 | 4 | 5 |
| 7 | Introduction of <i>Pseudomonas aeruginosa</i> mutator phage D3112 into <i>Alcaligenes eutrophus</i> strain CH34. <i>Research in Microbiology</i> , 1995 , 146, 245-50 | 4 | 4 |
| 6 | Assessment of Damage to Nucleic Acids and Repair Machinery in <i>Salmonella typhimurium</i> Exposed to Chlorine. <i>International Journal of Microbiology</i> , 2009 , 2009, 201868 | 3.6 | 3 |
| 5 | Atypical stress response to temperature and NaOCl exposure leading to septation defect during cell division in <i>Cupriavidus metallidurans</i> CH34. <i>FEMS Microbiology Letters</i> , 2014 , 353, 32-9 | 2.9 | 2 |
| 4 | Identification of antibiotics triggering the dissemination of antibiotic resistance genes by SXT/R391 elements using a dedicated high-throughput whole-cell biosensor assay. <i>Journal of Antimicrobial Chemotherapy</i> , 2021 , | 5.1 | 2 |
| 3 | Abundance and environmental host range of the SXT/R391 ICEs in aquatic environmental communities. <i>Environmental Pollution</i> , 2021 , 288, 117673 | 9.3 | 2 |
| 2 | F-Specific RNA Bacteriophage Transport in Stream Water: Hydro-Meteorological Controls and Association with Suspended Solids. <i>Water (Switzerland)</i> , 2021 , 13, 2250 | 3 | 0 |
| 1 | Tracking antibiotic resistance gene transfers in activated sludge reactors. <i>Proceedings of the Water Environment Federation</i> , 2008 , 2008, 7524-7537 | | |