# Louis Carles

List of Publications by Year
in descending order



| 16 | 451 | 687363 13 | 940533 16 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 17 | 17 | 17 | 490 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Meta-analysis of glyphosate contamination in surface waters and dissipation by biofilms. Environment International, 2019, 124, 284-293. | 10.0 | 103 |
| 2 | Identification of sulfonylurea biodegradation pathways enabled by a novel nicosulfuron-transforming strain Pseudomonas fluorescens SG-1: Toxicity assessment and effect of formulation. Journal of Hazardous Materials, 2017, 324, 184-193. | 12.4 | 47 |
| 3 | Biodegradation and toxicity of a maize herbicide mixture: mesotrione, nicosulfuron and S-metolachlor. Journal of Hazardous Materials, 2018, 354, 42-53. | 12.4 | 46 |
| 4 | Glyphosate-degrading behavior of five bacterial strains isolated from stream biofilms. Journal of Hazardous Materials, 2021, 420, 126651. | 12.4 | 35 |
| 5 | Impact of wastewater on the microbial diversity of periphyton and its tolerance to micropollutants in an engineered flow-through channel system. Water Research, 2021, 203, 117486. | 11.3 | 31 |
| 6 | How the edaphic Bacillus megaterium strain Mes11 adapts its metabolism to the herbicide mesotrione pressure. Environmental Pollution, 2015, 199, 198-208. | 7.5 | 29 |
| 7 | Potential of preventive bioremediation to reduce environmental contamination by pesticides in an agricultural context: A case study with the herbicide 2,4-D. Journal of Hazardous Materials, 2021, 416, 125740. | 12.4 | 23 |
| 8 | Mesotrione Herbicide: Efficiency, Effects, and Fate in the Environment after 15 Years of Agricultural Use. Clean - Soil, Air, Water, 2017, 45, 1700011. | 1.1 | 22 |
| 9 | Functional and structural characterization of two Bacillus megaterium nitroreductases biotransforming the herbicide mesotrione. Biochemical Journal, 2016, 473, 1443-1453. | 3.7 | 21 |
| 10 | Biotransformation of herbicides by aquatic microbial communities associated to submerged leaves. Environmental Science and Pollution Research, 2017, 24, 3664-3674. | 5.3 | 18 |
| 11 | Interaction between glyphosate and dissolved phosphorus on bacterial and eukaryotic communities from river biofilms. Science of the Total Environment, 2020, 719, 137463. | 8.0 | 17 |
| 12 | Wastewater microorganisms impact the micropollutant biotransformation potential of natural stream biofilms. Water Research, 2022, 217, 118413. | 11.3 | 17 |
| 13 | Nicosulfuron Degradation by an Ascomycete Fungus Isolated From Submerged Alnus Leaf Litter. Frontiers in Microbiology, 2018, 9, 3167. | 3.5 | 16 |
| 14 | Dissolved organic matter does not promote glyphosate degradation in auto-heterotrophic aquatic microbial communities. Environmental Pollution, 2020, 259, 113951. | 7.5 | 14 |
| 15 | Genomic analysis of the Bacillus megaterium Mes11: New insights into nitroreductase genes associated with the degradation of mesotrione. International Biodeterioration and Biodegradation, 2021, 162, 105254. | 3.9 | 7 |
| 16 | Important ecological processes are affected by the accumulation and trophic transfer of nanoplastics in a freshwater periphyton-grazer food chain. Environmental Science: Nano, 2022, 9, 2990-3003. | 4.3 | 5 |