

# Bruno Coulomb

## List of Publications by Year in descending order

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63  
papers

1,594  
citations

257450

24  
h-index

315739

38  
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63  
all docs

63  
docs citations

63  
times ranked

2123  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Effect of coupled UV-A and UV-C LEDs on both microbiological and chemical pollution of urban wastewaters. <i>Science of the Total Environment</i> , 2012, 426, 304-310.  | 8.0  | 117       |
| 2  | Occurrence, origin, and toxicity of disinfection byproducts in chlorinated swimming pools: An overview. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 591-603.   | 4.3  | 105       |
| 3  | Identification of disinfection by-products in freshwater and seawater swimming pools and evaluation of genotoxicity. <i>Environment International</i> , 2016, 88, 94-102.  | 10.0 | 80        |
| 4  | Multivariate optimization of fecal bioindicator inactivation by coupling UV-A and UV-C LEDs. <i>Desalination</i> , 2012, 285, 219-225.   | 8.2  | 74        |
| 5  | Selection of wild macrophytes for use in constructed wetlands for phytoremediation of contaminant mixtures. <i>Journal of Environmental Management</i> , 2015, 147, 108-123.   | 7.8  | 72        |
| 6  | Exposure levels to brominated compounds in seawater swimming pools treated with chlorine. <i>Water Research</i> , 2012, 46, 828-836.   | 11.3 | 70        |
| 7  | Light-induced nitrous acid (HONO) production from NO <sub>2</sub> heterogeneous reactions on household chemicals. <i>Atmospheric Environment</i> , 2014, 95, 391-399.  | 4.1  | 57        |
| 8  | Degradation Products of Benzophenone-3 in Chlorinated Seawater Swimming Pools. <i>Environmental Science &amp; Technology</i> , 2015, 49, 9308-9316.  | 10.0 | 54        |
| 9  | Degradation of Organic UV filters in Chlorinated Seawater Swimming Pools: Transformation Pathways and Bromoform Formation. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13580-13591.  | 10.0 | 51        |
| 10 | Impact of watering with UV-LED-treated wastewater on microbial and physico-chemical parameters of soil. <i>Water Research</i> , 2013, 47, 1971-1982.   | 11.3 | 47        |
| 11 | Transfer of metals and metalloids from soil to shoots in wild rosemary ( <i>Rosmarinus officinalis</i> L.) growing on a former lead smelter site: Human exposure risk. <i>Science of the Total Environment</i> , 2013, 454-455, 219-229. | 8.0  | 47        |
| 12 | 3D-printed lab-on-valve for fluorescent determination of cadmium and lead in water. <i>Talanta</i> , 2018, 183, 201-208.   | 5.5  | 44        |
| 13 | 3D-printed flow system for determination of lead in natural waters. <i>Talanta</i> , 2017, 168, 298-302.   | 5.5  | 42        |
| 14 | Aqueous Phase Oligomerization of Methyl Vinyl Ketone by Atmospheric Radical Reactions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29421-29430.  | 3.1  | 39        |
| 15 | Aqueous-phase oligomerization of methyl vinyl ketone through photooxidation " Part 1: Aging processes of oligomers. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 21-35.  | 4.9  | 39        |
| 16 | Spectrofluorimetric determination of aluminum in drinking waters by sequential injection analysis. <i>Analytica Chimica Acta</i> , 2002, 457, 311-318.   | 5.4  | 38        |
| 17 | Solid phase extraction " Multisyringe flow injection system for the spectrophotometric determination of selenium with 2,3-diaminonaphthalene. <i>Talanta</i> , 2010, 81, 572-577.  | 5.5  | 36        |
| 18 | Fate of carbamazepine and anthracene in soils watered with UV-LED treated wastewaters. <i>Water Research</i> , 2013, 47, 6574-6584.  | 11.3 | 34        |

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|----|--|------|-----------|
| 19 | Salicylic acid and derivatives anchored on poly(styrene-co-divinylbenzene) resin and membrane via a diazo bridge: Synthesis, characterisation and application to metal extraction. <i>Reactive and Functional Polymers</i> , 2008, 68, 775-786.                                      | 4.1  | 31        |
| 20 | On-line solid-phase extraction and multisyringe flow injection analysis of Al(III) and Fe(III) in drinking water. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1595-1602.  | 3.7  | 28        |
| 21 | On-line analysis of volatile fatty acids in anaerobic treatment processes. <i>Analytica Chimica Acta</i> , 2010, 668, 74-79.   | 5.4  | 27        |
| 22 | As, Pb, Sb, and Zn transfer from soil to root of wild rosemary: do native symbionts matter?. <i>Plant and Soil</i> , 2014, 382, 219-236.   | 3.7  | 27        |
| 23 | Occurrence of brominated disinfection byproducts in the air and water of chlorinated seawater swimming pools. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 583-590.   | 4.3  | 27        |
| 24 | Biogeochemistry of an Amazonian podzol-ferralsol soil system with white kaolin. <i>Biogeosciences</i> , 2012, 9, 3705-3720.  | 3.3  | 25        |
| 25 | Assessing the genotoxicity of two commonly occurring byproducts of water disinfection: Chloral hydrate and bromal hydrate. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2017, 813, 37-44.   | 1.7  | 25        |
| 26 | Fluorimetric determination of aluminium in water by sequential injection through column extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 1652-1658.  | 3.7  | 24        |
| 27 | Synthesis and applications of XAD-4-DAN chelate resin for the separation and determination of Se(IV). <i>Reactive and Functional Polymers</i> , 2009, 69, 877-883.   | 4.1  | 22        |
| 28 | In situ biostimulation of petroleum hydrocarbon degradation by nitrate and phosphate injection using a dipole well configuration. <i>Journal of Contaminant Hydrology</i> , 2014, 171, 22-31.  | 3.3  | 20        |
| 29 | An experimental design to optimize the flow extraction parameters for the selective removal of Fe(III) and Al(III) in aqueous samples using salicylic acid grafted on Amberlite XAD-4 and final determination by GF-AAS. <i>Journal of Hazardous Materials</i> , 2007, 147, 463-470. | 12.4 | 17        |
| 30 | Modified 3D-printed device for mercury determination in waters. <i>Analytica Chimica Acta</i> , 2019, 1082, 78-85.   | 5.4  | 17        |
| 31 | Experimental design approach for the solid-phase extraction of residual aluminium coagulants in treated waters. <i>Talanta</i> , 2007, 73, 237-245.  | 5.5  | 15        |
| 32 | Development of a fluorescence-based microplate method for the determination of volatile fatty acids in anaerobically digested and sewage sludges. <i>Talanta</i> , 2012, 88, 230-236.  | 5.5  | 15        |
| 33 | Alternative Spectrofluorimetric Determination of Short-Chain Volatile Fatty Acids in Aqueous Samples. <i>Analytical Chemistry</i> , 2009, 81, 3063-3070.   | 6.5  | 14        |
| 34 | Development of a simple fluorescence-based microplate method for the high-throughput analysis of proline in wine samples. <i>Food Chemistry</i> , 2014, 150, 274-279.  | 8.2  | 14        |
| 35 | Occurrence and fate of selected surfactants in seawater at the outfall of the Marseille urban sewerage system. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 1527-1538.   | 3.5  | 13        |
| 36 | Monitoring and factors affecting levels of airborne and water bromoform in chlorinated seawater swimming pools. <i>Journal of Environmental Sciences</i> , 2017, 58, 262-270.  | 6.1  | 13        |

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|----|---|------|-----------|
| 37 | Fast microplate assay for simultaneous determination of thiols and dissolved sulfides in wastewater. <i>Microchemical Journal</i> , 2017, 132, 205-210.   | 4.5  | 12        |
| 38 | Nickel retention by an ion-imprinted polymer: Wide-range selectivity study and modelling of the binding structures. <i>Chemical Engineering Journal</i> , 2016, 304, 20-28.   | 12.7 | 11        |
| 39 | Comparative Study on Metal Extraction Properties of Empore SDBâ€XC and Amberlite XADâ€4 Grafted by Salicylic Acid and its Derivatives via Different Bridges. <i>Separation Science and Technology</i> , 2006, 41, 1619-1633.                  | 2.5  | 9         |
| 40 | Rapid estimation of TOC in a marine urban sewage area by UV spectral deconvolution. <i>International Journal of Environmental Analytical Chemistry</i> , 2006, 86, 1079-1093.   | 3.3  | 9         |
| 41 | Modification of poly(styrene-co-divinylbenzene) membrane by grafting of salicylic acid via a ketone bridge. <i>European Polymer Journal</i> , 2007, 43, 416-424.  | 5.4  | 9         |
| 42 | Impact of organic pollutants on metal and As uptake by helophyte species and consequences for constructed wetlands design and management. <i>Water Research</i> , 2015, 68, 328-341.  | 11.3 | 9         |
| 43 | High throughput determination of ammonium and primary amine compounds in environmental and food samples. <i>Microchemical Journal</i> , 2017, 133, 216-221.   | 4.5  | 9         |
| 44 | Development of transient mutagenic activity following the chlorination of the sunscreen UV filter dioxybenzone (benzophenone-8) in bromide-rich water. <i>International Journal of Hygiene and Environmental Health</i> , 2019, 222, 663-669. | 4.3  | 9         |
| 45 | Implication of phytometabolites on metal tolerance of the pseudo-metallophyte - <i>Rosmarinus officinalis</i> - in a Mediterranean brownfield. <i>Chemosphere</i> , 2020, 249, 126159.  | 8.2  | 9         |
| 46 | Sub-ppb mercury detection in real environmental samples with an improved rhodamine-based detection system. <i>Talanta</i> , 2021, 224, 121909.  | 5.5  | 9         |
| 47 | Development of a simple, low-cost and rapid thin-layer chromatography method for the determination of individual volatile fatty acids. <i>Analytical Methods</i> , 2019, 11, 1891-1897.   | 2.7  | 8         |
| 48 | Development of an automated system for the analysis of inorganic chloramines in swimming pools via multi-syringe chromatography and photometric detection with ABTS. <i>Talanta</i> , 2020, 207, 120322.                                      | 5.5  | 8         |
| 49 | Soil organic carbon mobility in equatorial podzols: soil column experiments. <i>Soil</i> , 2021, 7, 585-594.  | 4.9  | 8         |
| 50 | $\hat{1}^2$ -Hydroxymyristic acid as a chemical marker to detect endotoxins in dialysis water. <i>Analytical Biochemistry</i> , 2015, 470, 71-77.   | 2.4  | 7         |
| 51 | Individual volatile fatty acids determination by chromogenic derivatization coupled to multi-syringe chromatography. <i>Talanta</i> , 2013, 115, 737-743.   | 5.5  | 6         |
| 52 | A highly-sensitive microplate fluorimetric method for the high-throughput determination of nitrate ion in aqueous compost extracts. <i>Microchemical Journal</i> , 2018, 138, 424-429.  | 4.5  | 6         |
| 53 | In situ complexation versus complex isolation in synthesis of ion imprinted polymers. <i>Reactive and Functional Polymers</i> , 2018, 122, 1-8.   | 4.1  | 6         |
| 54 | Simple and ultrasensitive microplate method for spectrofluorimetric determination of trace resorcinol. <i>Microchemical Journal</i> , 2015, 122, 5-9.   | 4.5  | 5         |

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|----|---|-----|-----------|
| 55 | Colza ( <i>Brassica napus</i> , v. Jaguar) Responses to Low Level of Metal Inputs Through Sewage Sludge Application: Induction of phytochelatin synthesis (10 pp). <i>Journal of Soils and Sediments</i> , 2006, 6, 221-230.                        | 3.0 | 4         |
| 56 | Biomonitoring of <i>Epilobium hirsutum</i> L. Health Status to Assess Water Ecotoxicity in Constructed Wetlands Treating Mixtures of Contaminants. <i>Water (Switzerland)</i> , 2015, 7, 697-715.   | 2.7 | 4         |
| 57 | Proposal of a new ecotoxicity evaluation tool based on morphological responses of five helophytes to mixtures of pollutants: The Helophyte Development Index. <i>Ecological Engineering</i> , 2015, 77, 180-188.                                    | 3.6 | 4         |
| 58 | Fast UHPLC-MS/MS for the Simultaneous Determination of Azithromycin, Erythromycin, Fluoxetine and Sotalol in Surface Water Samples. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8316.   | 2.5 | 4         |
| 59 | Determination of Las in Wastewater Treatment Plants: Comparative Study Between Conventional Biodegradation Testing and an Alternative Photo-Oxidation Method. <i>International Journal of Environmental Analytical Chemistry</i> , 2001, 81, 55-72. | 3.3 | 2         |
| 60 | Evaluation of an integrated constructed wetland to manage pig manure under Mediterranean climate. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16383-16395.  | 5.3 | 2         |
| 61 | Inorganic chloramines analysis in water. <i>Comprehensive Analytical Chemistry</i> , 2021, 92, 31-49.   | 1.3 | 2         |
| 62 | Determination of dissolved nickel in natural waters using a rapid microplate fluorescence assay method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 275, 121170.   | 3.9 | 2         |
| 63 | Multisyringe Flow Injection Analysis of Tropomyosin Allergens in Shellfish Samples. <i>Molecules</i> , 2021, 26, 5809.  | 3.8 | 1         |