

Serge Chiron

List of Publications by Year in descending order

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81
papers

5,483
citations

81839

39
h-index

79644

73
g-index

83
all docs

83
docs citations

83
times ranked

5188
citing authors

#	ARTICLE	IF	CITATIONS
1	Pesticide chemical oxidation: state-of-the-art. <i>Water Research</i> , 2000, 34, 366-377.	5.3	416
2	Sulfate radical anion oxidation of diclofenac and sulfamethoxazole for water decontamination. <i>Chemical Engineering Journal</i> , 2012, 197, 440-447.	6.6	336
3	Fenton-like oxidation of 2,4,6-trinitrotoluene using different iron minerals. <i>Science of the Total Environment</i> , 2007, 385, 242-251.	3.9	300
4	Photodegradation Processes of the Antiepileptic Drug Carbamazepine, Relevant To Estuarine Waters. <i>Environmental Science & Technology</i> , 2006, 40, 5977-5983.	4.6	261
5	Ciprofloxacin oxidation by UV-C activated peroxymonosulfate in wastewater. <i>Journal of Hazardous Materials</i> , 2014, 265, 41-46.	6.5	229
6	Solar photo-Fenton like using persulphate for carbamazepine removal from domestic wastewater. <i>Water Research</i> , 2014, 48, 229-236.	5.3	173
7	Reactive photoinduced species in estuarine waters. Characterization of hydroxyl radical, singlet oxygen and dissolved organic matter triplet state in natural oxidation processes. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 78-86.	1.6	167
8	Removal of carbamazepine from urban wastewater by sulfate radical oxidation. <i>Environmental Chemistry Letters</i> , 2011, 9, 347-353.	8.3	159
9	Comparison of on-line solid-phase disk extraction to liquid-liquid extraction for monitoring selected pesticides in environmental waters. <i>Environmental Science & Technology</i> , 1993, 27, 2352-2359.	4.6	142
10	Coupling enhanced water solubilization with cyclodextrin to indirect electrochemical treatment for pentachlorophenol contaminated soil remediation. <i>Water Research</i> , 2005, 39, 2763-2773.	5.3	142
11	Photochemical Fate of Carbamazepine in Surface Freshwaters: Laboratory Measures and Modeling. <i>Environmental Science & Technology</i> , 2012, 46, 8164-8173.	4.6	126
12	Oxidation of 2,4,6-trinitrotoluene in the presence of different iron-bearing minerals at neutral pH. <i>Chemical Engineering Journal</i> , 2008, 144, 453-458.	6.6	112
13	Photochemical processes involving nitrite in surface water samples. <i>Aquatic Sciences</i> , 2007, 69, 71-85.	0.6	111
14	Determination of imidacloprid in vegetables by high-performance liquid chromatography with diode-array detection. <i>Journal of Chromatography A</i> , 1996, 721, 97-105.	1.8	110
15	Occurrence and distribution of selected antibiotics in a small Mediterranean stream (Arc River, Tj ETQq1 1 0.784314 rgBT / Overlock 109	2.3	109
16	Automated Online Liquid-Solid Extraction Followed by Liquid Chromatography-High-Flow Pneumatically Assisted Electrospray Mass Spectrometry for the Determination of Acidic Herbicides in Environmental Waters. <i>Analytical Chemistry</i> , 1995, 67, 1637-1643.	3.2	104
17	Occurrence of 2,4-Dichlorophenol and of 2,4-Dichloro-6-Nitrophenol in the Rhône River Delta (Southern France). <i>Environmental Science & Technology</i> , 2007, 41, 3127-3133.	4.6	99
18	Pesticides in the Rhône river delta (France): Basic data for a field-based exposure assessment. <i>Science of the Total Environment</i> , 2007, 380, 124-132.	3.9	92

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19	Fast and easy extraction combined with high resolution-mass spectrometry for residue analysis of two anticonvulsants and their transformation products in marine mussels. <i>Journal of Chromatography A</i> , 2013, 1305, 27-34.	1.8	86
20	Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems. <i>Journal of Chromatography A</i> , 1993, 645, 125-134.	1.8	85
21	Phototransformation of selected human-used macrolides in surface water: Kinetics, model predictions and degradation pathways. <i>Water Research</i> , 2009, 43, 1959-1967.	5.3	84
22	Bioconcentration of two pharmaceuticals (benzodiazepines) and two personal care products (UV Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Environmental Science and Pollution Research, 2012, 19, 2561-2569.	2.7	83
23	Speciation of butyl- and phenyltin compounds in sediments using pressurized liquid extraction and liquid chromatographyâ€“inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2000, 879, 137-145.	1.8	81
24	Application of on-line solid-phase extraction followed by liquid chromatographyâ€“thermospray mass spectrometry to the determination of pesticides in environmental waters. <i>Journal of Chromatography A</i> , 1994, 665, 295-305.	1.8	74
25	Comparative photodegradation rates of alachlor and bentazone in natural water and determination of breakdown products. <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 1287-1298.	2.2	73
26	Solid-phase sample preparation and stability of pesticides in water using Empore disks. <i>TrAC - Trends in Analytical Chemistry</i> , 1994, 13, 352-361.	5.8	71
27	Solar photo-Fenton using peroxymonosulfate for organic micropollutants removal from domestic wastewater: Comparison with heterogeneous TiO ₂ photocatalysis. <i>Chemosphere</i> , 2014, 117, 256-261.	4.2	71
28	Pesticide by-products in the RhÃ“ne delta (Southern France). The case of 4-chloro-2-methylphenol and of its nitroderivative. <i>Chemosphere</i> , 2009, 74, 599-604.	4.2	68
29	Comparing pharmaceutical and pesticide loads into a small Mediterranean river. <i>Science of the Total Environment</i> , 2005, 349, 201-210.	3.9	65
30	On-line and off-line sample preparation of acidic herbicides and bentazone transformation products in estuarine waters. <i>Journal of Chromatography A</i> , 1994, 665, 283-293.	1.8	60
31	Evaluating on-line solid-phase extraction coupled to liquid chromatographyâ€“ion trap mass spectrometry for reliable quantification and confirmation of several classes of antibiotics in urban wastewaters. <i>Journal of Chromatography A</i> , 2007, 1164, 95-104.	1.8	58
32	Use of solar advanced oxidation processes for wastewater treatment: Follow-up on degradation products, acute toxicity, genotoxicity and estrogenicity. <i>Chemosphere</i> , 2016, 148, 473-480.	4.2	58
33	Transformation of the antiepileptic drug oxcarbazepine upon different water disinfection processes. <i>Water Research</i> , 2011, 45, 1587-1596.	5.3	57
34	Runoff of pesticides from rice fields in the Ile de Camargue (RhÃ“ne river delta, France): Field study and modeling. <i>Environmental Pollution</i> , 2008, 151, 486-493.	3.7	56
35	Adsorption and transformation of selected human-used macrolide antibacterial agents with iron(III) and manganese(IV) oxides. <i>Environmental Pollution</i> , 2009, 157, 1317-1322.	3.7	54
36	Photoâ€“Fenton treatment of TNT contaminated soil extract solutions obtained by soil flushing with cyclodextrin. <i>Chemosphere</i> , 2006, 62, 1395-1402.	4.2	51

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37	POCIS passive samplers as a monitoring tool for pharmaceutical residues and their transformation products in marine environment. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5019-5029.	2.7	48
38	Supercritical Fluid Extraction of Atrazine and Polar Metabolites from Sediments Followed by Confirmation with LC-MS. <i>Environmental Science & Technology</i> , 1996, 30, 1822-1826.	4.6	43
39	Modelling the occurrence and reactivity of the carbonate radical in surface freshwater. <i>Comptes Rendus Chimie</i> , 2009, 12, 865-871.	0.2	41
40	Automated Sample Preparation for Monitoring Groundwater Pollution by Carbamate Insecticides and Their Transformation Products. <i>Journal of AOAC INTERNATIONAL</i> , 1995, 78, 1346-1352.	0.7	40
41	Biodegradation of fluoroquinolone antibiotics and the climbazole fungicide by <i>Trichoderma</i> species. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23331-23341.	2.7	40
42	Pesticide chemical oxidation processes: an analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 1997, 16, 518-527.	5.8	38
43	Relevance of a photo-Fenton like technology based on peroxymonosulphate for 17 β -estradiol removal from wastewater. <i>Chemical Engineering Journal</i> , 2014, 257, 191-199.	6.6	38
44	Nitration Processes of Acetaminophen in Nitrifying Activated Sludge. <i>Environmental Science & Technology</i> , 2010, 44, 284-289.	4.6	37
45	Application of gas and liquid chromatography-mass spectrometry to the evaluation of pirimiphos methyl degradation products in industrial water under ozone treatment. <i>Journal of Chromatography A</i> , 1998, 823, 97-107.	1.8	36
46	Chiral signature of venlafaxine as a marker of biological attenuation processes. <i>Chemosphere</i> , 2013, 90, 1933-1938.	4.2	36
47	Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples. <i>Analytica Chimica Acta</i> , 1995, 311, 319-329.	2.6	35
48	Modelling the occurrence and reactivity of hydroxyl radicals in surface waters: implications for the fate of selected pesticides. <i>International Journal of Environmental Analytical Chemistry</i> , 2010, 90, 260-275.	1.8	34
49	Enantioselective reductive transformation of climbazole: A concept towards quantitative biodegradation assessment in anaerobic biological treatment processes. <i>Water Research</i> , 2017, 116, 203-210.	5.3	34
50	Bicarbonate-enhanced transformation of phenol upon irradiation of hematite, nitrate, and nitrite. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 91-100.	1.6	33
51	Photoinduced transformation processes of 2,4-dichlorophenol and 2,6-dichlorophenol on nitrate irradiation. <i>Chemosphere</i> , 2007, 69, 1548-1554.	4.2	32
52	Oxidation of phenol by green rust and hydrogen peroxide at neutral pH. <i>Separation and Purification Technology</i> , 2008, 61, 442-446.	3.9	30
53	Enantiomeric fractionation as a tool for quantitative assessment of biodegradation: The case of metoprolol. <i>Water Research</i> , 2016, 95, 19-26.	5.3	30
54	Laboratory and field evidence of the photonitration of 4-chlorophenol to 2-nitro-4-chlorophenol and of the associated bicarbonate effect. <i>Environmental Science and Pollution Research</i> , 2010, 17, 1063-1069.	2.7	27

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55	Screening triclocarban and its transformation products in river sediment using liquid chromatography and high resolution mass spectrometry. <i>Science of the Total Environment</i> , 2015, 502, 199-205.	3.9	26
56	Use of Extraction Disks for Trace Enrichment of Various Pesticides from River and Sea Water Samples. <i>International Journal of Environmental Analytical Chemistry</i> , 1992, 49, 31-42.	1.8	25
57	Biotic nitrosation of diclofenac in a soil aquifer system (Katari watershed, Bolivia). <i>Science of the Total Environment</i> , 2016, 565, 473-480.	3.9	25
58	Relevance of N-nitrosation reactions for secondary amines in nitrate-rich wastewater under UV-C treatment. <i>Water Research</i> , 2019, 162, 22-29.	5.3	25
59	Impact of long-term irrigation with municipal reclaimed wastewater on the uptake and degradation of organic contaminants in lettuce and leek. <i>Science of the Total Environment</i> , 2021, 765, 142742.	3.9	25
60	Identification of Carbofuran And Methiocarb and their Transformation Products in Estuarine Waters by On-line Solid Phase Extraction Liquid Chromatography-Mass Spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 1996, 65, 37-52.	1.8	22
61	Factors responsible for rapid dissipation of acidic herbicides in the coastal lagoons of the Camargue (Rh�ne River Delta, France). <i>Science of the Total Environment</i> , 2011, 409, 582-587.	3.9	22
62	Determination of nonionic polyethoxylate surfactants in wastewater and sludge samples of sewage treatment plants by liquid chromatography-mass spectrometry. <i>Analisis - European Journal of Analytical Chemistry</i> , 2000, 28, 535-542.	0.4	20
63	In vitro synthesis of 1,N6-etheno-2-deoxyadenosine and 1,N2-etheno-2-deoxyguanosine by 2,4-dinitrophenol and 1,3-dinitropyrene in presence of a bacterial nitroreductase. <i>Environmental Toxicology</i> , 2007, 22, 222-227.	2.1	20
64	New insight into photo-bromination processes in saline surface waters: The case of salicylic acid. <i>Science of the Total Environment</i> , 2012, 435-436, 345-350.	3.9	20
65	4-nitroso-sulfamethoxazole generation in soil under denitrifying conditions: Field observations versus laboratory results. <i>Journal of Hazardous Materials</i> , 2017, 334, 185-192.	6.5	20
66	Combining micelle-clay sorption to solar photo-Fenton processes for domestic wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18971-18978.	2.7	19
67	Environmental nitration processes enhance the mutagenic potency of aromatic compounds. <i>Environmental Toxicology</i> , 2012, 27, 321-331.	2.1	17
68	6-hydroxygalangin and C-prenylated kaempferol derivatives from <i>Platanus acerifolia</i> buds. <i>Phytochemistry</i> , 1992, 31, 2131-2134.	1.4	14
69	Insights into reductive dechlorination of triclocarban in river sediments: Field measurements and in vitro mechanism investigations. <i>Chemosphere</i> , 2016, 144, 425-432.	4.2	14
70	Photodegradation of Xenobiotic Compounds Relevant to Estuarine Waters. <i>Annali Di Chimica</i> , 2007, 97, 135-139.	0.6	12
71	Peroxydisulfate activation process on copper oxide: Cu(III) as the predominant selective intermediate oxidant for phenol and waterborne antibiotics removal. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105145.	3.3	12
72	Copper oxide/peroxydisulfate system for urban wastewater disinfection: Performances, reactive species, and antibiotic resistance genes removal. <i>Science of the Total Environment</i> , 2022, 806, 150768.	3.9	10

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73	Oxidative degradation of pentachlorophenol by permanganate for ISCO application. Environmental Technology (United Kingdom), 2018, 39, 651-657.	1.2	9
74	Penetration, distribution and effects of [14C] pentachlorophenol inside culturedAcer cells. Phytochemistry, 1991, 30, 3553-3558.	1.4	8
75	Nitric oxide reactivity accounts for N-nitroso-ciprofloxacin formation under nitrate-reducing conditions. Water Research, 2020, 185, 116293.	5.3	8
76	Peroxydisulfate activation by CuO pellets in a fixed-bed column, operating mode and assessments for antibiotics degradation and urban wastewater disinfection. Environmental Science and Pollution Research, 2022, 29, 71709-71720.	2.7	8
77	Modeling anthropogenic substances in coastal wetlands: Application to herbicides in the Camargue (France). Environmental Modelling and Software, 2010, 25, 1837-1844.	1.9	7
78	Secondary oxidation of cyclic 1,N2-propano and 1,N2-etheno-2-â€²-deoxyguanosine DNA adducts. Consequences in oxidative stress biomarker development. Chemosphere, 2010, 80, 1081-1087.	4.2	6
79	Comparison of sunlight-AOPs for levofloxacin removal: kinetics, transformation products, and toxicity assay on Escherichia coli and Micrococcus flavus. Environmental Science and Pollution Research, 2022, 29, 58201-58211.	2.7	6
80	Impact of repeated irrigation of lettuce cultures with municipal wastewater on soil bacterial community diversity and composition. Environmental Science and Pollution Research, 2022, 29, 29236-29243.	2.7	2
81	Soil Sorption and Degradation Studies of Pharmaceutical Compounds Present in Recycled Wastewaters Based on Enantiomeric Fractionation. Handbook of Environmental Chemistry, 2020, , 143.	0.2	1