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List of Publications by Year
in descending order

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115 papers	4,042 citations	81900 39 h-index	149698 56 g-index
116 all docs	116 docs citations	116 times ranked	3850 citing authors

#	Article	IF	Citations
1	Performance of aerobic granular sludge in a sequencing batch bioreactor exposed to ofloxacin, norfloxacin and ciprofloxacin. Water Research, 2014, 50, 101-113.	11.3	197
2	Biodegradation of ofloxacin, norfloxacin, and ciprofloxacin as single and mixed substrates by Labrys portucalensis F11. Applied Microbiology and Biotechnology, 2014, 98, 3181-3190.	3.6	149
3	Monitoring of the 17 EU Watch List contaminants of emerging concern in the Ave and the Sousa Rivers. Science of the Total Environment, 2019, 649, 1083-1095.	8.0	120
4	Spatiotemporal distribution of pharmaceuticals in the Douro River estuary (Portugal). Science of the Total Environment, 2010, 408, 5513-5520.	8.0	116
5	Chiral Stationary Phases for Liquid Chromatography: Recent Developments. Molecules, 2019, 24, 865.	3.8	111
6	Seasonal and Spatial Distribution of Several Endocrine-Disrupting Compounds in the Douro River Estuary, Portugal. Archives of Environmental Contamination and Toxicology, 2009, 56, 1-11.	4.1	102
7	Degradation of fluoroquinolone antibiotics and identification of metabolites/transformation products by liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2014, 1333, 87-98.	3.7	96
8	Enantioseparation of chiral pharmaceuticals in biomedical and environmental analyses by liquid chromatography: An overview. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 968, 8-21.	2.3	91
9	Enrichment of bacterial strains for the biodegradation of diclofenac and carbamazepine from activated sludge. International Biodeterioration and Biodegradation, 2017, 120, 135-142.	3.9	88
10	New Trends in Sample Preparation Techniques for Environmental Analysis. Critical Reviews in Analytical Chemistry, 2014, 44, 142-185.	3.5	86
11	Chiral pharmaceuticals in the environment. Environmental Chemistry Letters, 2012, 10, 239-253.	16.2	76
12	HPLC with carbohydrate carbamate chiral phases: Influence of chiral phase structure on enantioselectivity. Chirality, 1994, 6, 135-140.	2.6	65
13	Gossypol enantiomer ratios in cotton seeds. Phytochemistry, 1991, 30, 2655-2657.	2.9	62
14	Chiral Drug Analysis in Forensic Chemistry: An Overview. Molecules, 2018, 23, 262.	3.8	59
15	Distribution of endocrine disruptors in the Mondego River estuary, Portugal. Environmental Monitoring and Assessment, 2009, 149, 183-193.	2.7	58
16	Enantioselectivity in Drug Pharmacokinetics and Toxicity: Pharmacological Relevance and Analytical Methods. Molecules, 2021, 26, 3113.	3.8	58
17	Treatment of a simulated wastewater amended with a chiral pharmaceuticals mixture by an aerobic granular sludge sequencing batch reactor. International Biodeterioration and Biodegradation, 2016, 115, 277-285.	3.9	57
18	Fluoroquinolones biosorption onto microbial biomass: activated sludge and aerobic granular sludge. International Biodeterioration and Biodegradation, 2016, 110, 53-60.	3.9	54

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19	Chiral Separation in Preparative Scale: A Brief Overview of Membranes as Tools for Enantiomeric Separation. Symmetry, 2017, 9, 206.	2.2	54
20	Enantioselective biodegradation of pharmaceuticals, alprenolol and propranolol, by an activated sludge inoculum. Ecotoxicology and Environmental Safety, 2013, 87, 108-114.	6.0	53
21	Enantiomeric resolution of chiral sulfoxides on polysaccharide phases by HPLC. Chirality, 1996, 8, 147-152.	2.6	52
22	Enantiomeric fraction evaluation of pharmaceuticals in environmental matrices by liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2014, 1363, 226-235.	3.7	52
23	Distribution and environmental assessment of trace elements contamination of water, sediments and flora from Douro River estuary, Portugal. Science of the Total Environment, 2018, 639, 1381-1393.	8.0	52
24	From Natural Products to New Synthetic Small Molecules: A Journey through the World of Xanthones. Molecules, 2021, 26, 431.	3.8	52
25	Removal of fluoxetine and its effects in the performance of an aerobic granular sludge sequential batch reactor. Journal of Hazardous Materials, 2015, 287, 93-101.	12.4	49
26	Chiral Separations in Preparative Scale: A Medicinal Chemistry Point of View. Molecules, 2020, 25, 1931.	3.8	49
27	Developing gossypol derivatives with enhanced antitumor activity. Investigational New Drugs, 1995, 13, 181-186.	2.6	48
28	Enantioseparation and chiral recognition mechanism of new chiral derivatives of xanthones on macrocyclic antibiotic stationary phases. Journal of Chromatography A, 2012, 1241, 60-68.	3.7	48
29	Enantioselective biodegradation of fluoxetine by the bacterial strain Labrys portucalensis F11. Chemosphere, 2014, 111, 103-111.	8.2	48
30	Chiral enantioresolution of cathinone derivatives present in â€œlegal highsâ€, and enantioselectivity evaluation on cytotoxicity of 3,4-methylenedioxypyrovalerone (MDPV). Forensic Toxicology, 2016, 34, 372-385.	2.4	48
31	Small Molecules as Chromatographic Tools for HPLC Enantiomeric Resolution: Pirkle-Type Chiral Stationary Phases Evolution. Chromatographia, 2013, 76, 871-897.	1.3	47
32	Enantioselective quantification of fluoxetine and norfluoxetine by HPLC in wastewater effluents. Chemosphere, 2014, 95, 589-596.	8.2	47
33	Pharmaceutical trace analysis in aqueous environmental matrices by liquid chromatographyâ€“ion trap tandem mass spectrometry. Journal of Chromatography A, 2009, 1216, 7033-7042.	3.7	46
34	Chiral Stationary Phases Based on Small Molecules: An Update of the Last 17 Years. Separation and Purification Reviews, 2018, 47, 89-123.	5.5	46
35	Enantioselective HPLC analysis and biodegradation of atenolol, metoprolol and fluoxetine. Environmental Chemistry Letters, 2013, 11, 83-90.	16.2	45
36	Quantification of fluoroquinolones in wastewaters by liquid chromatography-tandem mass spectrometry. Environmental Pollution, 2020, 259, 113927.	7.5	42

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37	A QSERR study on enantioselective separation of enantiomeric sulphoxides. Analytica Chimica Acta, 2000, 419, 93-100.	5.4	41
38	A column-switching method for quantification of the enantiomers of omeprazole in native matrices of waste and estuarine water samples. Talanta, 2010, 82, 384-391.	5.5	41
39	New chiral derivatives of xanthones: Synthesis and investigation of enantioselectivity as inhibitors of growth of human tumor cell lines. Bioorganic and Medicinal Chemistry, 2014, 22, 1049-1062.	3.0	41
40	Chiral Analysis of Pesticides and Drugs of Environmental Concern: Biodegradation and Enantiomeric Fraction. Symmetry, 2017, 9, 196.	2.2	39
41	Dual enantioselective LCâ€“MS/MS method to analyse chiral drugs in surface water: Monitoring in Douro River estuary. Journal of Pharmaceutical and Biomedical Analysis, 2019, 170, 89-101.	2.8	37
42	Occurrence of persistent organic pollutants in sediments and biota from Portugal versus European incidence: A critical overview. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2016, 51, 143-153.	1.5	35
43	Chiral Stationary Phases for Liquid Chromatography Based on Chitin- and Chitosan-Derived Marine Polysaccharides. Symmetry, 2017, 9, 190.	2.2	35
44	Enantioresolution of Chiral Derivatives of Xanthones on (S,S)â€Whelkâ€O1 and <scp>l</scp>â€Phenylglycine Stationary Phases and Chiral Recognition Mechanism by Docking Approach for (S,S)â€Whelkâ€O1. Chirality, 2013, 25, 89-100.	2.6	34
45	Analysis of chiral drugs in environmental matrices: Current knowledge and trends in environmental, biodegradation and forensic fields. TrAC - Trends in Analytical Chemistry, 2020, 124, 115783.	11.4	34
46	Development and Validation of a HPLCâ€DAD Method for Determination of Several Endocrine Disrupting Compounds in Estuarine Water. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 2729-2746.	1.0	32
47	Development and Optimization of a HPLC-DAD Method for the Determination of Diverse Pharmaceuticals in Estuarine Surface Waters. Journal of Chromatographic Science, 2010, 48, 176-182.	1.4	32
48	Synthesis of new chiral xanthone derivatives acting as nerve conduction blockers in the rat sciatic nerve. European Journal of Medicinal Chemistry, 2012, 55, 1-11.	5.5	32
49	Enantioselective degradation of ofloxacin and levofloxacin by the bacterial strains Labrys portucalensis F11 and Rhodococcus sp. FP1. Ecotoxicology and Environmental Safety, 2018, 155, 144-151.	6.0	32
50	Enantiomeric Resolution and Docking Studies of Chiral Xanthonic Derivatives on Chirobiotic Columns. Molecules, 2018, 23, 142.	3.8	32
51	An integrative review on the toxicity of Bisphenol A (BPA) released from resin composites used in dentistry. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1942-1952.	3.4	32
52	Occurrence of Chiral Bioactive Compounds in the Aquatic Environment: A Review. Symmetry, 2017, 9, 215.	2.2	31
53	Synthetic Chiral Derivatives of Xanthones: Biological Activities and Enantioselectivity Studies. Molecules, 2019, 24, 791.	3.8	31
54	Bacterial degradation of moxifloxacin in the presence of acetate as a bulk substrate. Journal of Environmental Management, 2016, 168, 219-228.	7.8	30

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55	Chiral Derivatives of Xanthones with Antimicrobial Activity. Molecules, 2019, 24, 314.	3.8	30
56	Preparative enantioseparation on polysaccharide phase using microporous silica as a support. , 1998, 10, 573-577.		29
57	Integrated liquid chromatography method in enantioselective studies: Biodegradation of ofloxacin by an activated sludge consortium. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1029-1030, 174-183.	2.3	29
58	Enantiomeric resolution of kielcorin derivatives by HPLC on polysaccharide stationary phases using multimodal elution. Chirality, 2004, 16, 279-285.	2.6	28
59	Spatial distribution and quantification of endocrine-disrupting chemicals in Sado River estuary, Portugal. Environmental Monitoring and Assessment, 2009, 159, 415-427.	2.7	28
60	Resolution and determination of enantiomeric purity of new chiral derivatives of xanthones using polysaccharide-based stationary phases. Journal of Chromatography A, 2012, 1269, 143-153.	3.7	28
61	Chiral polymeric membranes: Recent applications and trends. Separation and Purification Technology, 2022, 280, 119800.	7.9	27
62	Occurrence of Natural Contaminants of Emerging Concern in the Douro River Estuary, Portugal. Archives of Environmental Contamination and Toxicology, 2016, 70, 361-371.	4.1	26
63	Liquid chromatographic methods for the therapeutic drug monitoring of methotrexate as clinical decision support for personalized medicine: A brief review. Biomedical Chromatography, 2018, 32, e4159.	1.7	26
64	In silico and in vitro antioxidant and cytotoxicity evaluation of oxygenated xanthone derivatives. Arabian Journal of Chemistry, 2020, 13, 17-26.	4.9	26
65	Multimilligram enantioresolution of low-solubility xanthonolignoids on polysaccharide chiral stationary phases using a solid-phase injection system. Journal of Chromatography A, 2006, 1120, 75-81.	3.7	25
66	Enantiomeric resolution by HPLC of axial chiral amides using amylose tris[(S)-1-phenylethylcarbamate]. , 1997, 9, 109-112.		24
67	Lipophilicity assessement in drug discovery: Experimental and theoretical methods applied to xanthone derivatives. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1072, 182-192.	2.3	24
68	Chiral Derivatives of Xanthones: Investigation of the Effect of Enantioselectivity on Inhibition of Cyclooxygenases (COX-1 and COX-2) and Binding Interaction with Human Serum Albumin. Pharmaceuticals, 2017, 10, 50.	3.8	23
69	Enantiomeric ratios: Why so many notations?. Journal of Chromatography A, 2018, 1569, 1-7.	3.7	23
70	Multi-residue method for enantioseparation of psychoactive substances and beta blockers by gas chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1125, 121731.	2.3	23
71	ENANTIOSEPARATION ON AMYLOSE TRIS(3,5-DIMETHOXYPHENYL CARBAMATE): APPLICATION TO COMMERCIAL PHARMACEUTICAL CHIRAL DRUGS. Journal of Liquid Chromatography and Related Technologies, 1999, 22, 3091-3099.	1.0	22
72	Microbial degradation of 17Î² -estradiol and 17Î± -ethinylestradiol followed by a validated HPLC-DAD method. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2010, 45, 265-273.	1.5	21

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73	Assessment of Douro and Ave River (Portugal) lower basin water quality focusing on physicochemical and trace element spatiotemporal changes. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 1056-1066.	1.7	21
74	Anthropogenic pressure in a Portuguese river: Endocrine-disrupting compounds, trace elements and nutrients. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 1043-1052.	1.7	20
75	Dispersive liquidâ€“liquid microextraction and HPLC to analyse fluoxetine and metoprolol enantiomers in wastewaters. Environmental Chemistry Letters, 2015, 13, 203-210.	16.2	19
76	Chiral Flavonoids as Antitumor Agents. Pharmaceuticals, 2021, 14, 1267.	3.8	19
77	Separation of Enantiomers Using Gas Chromatography: Application in Forensic Toxicology, Food and Environmental Analysis. Critical Reviews in Analytical Chemistry, 2020, 51, 1-25.	3.5	18
78	New chiral stationary phases based on xanthone derivatives for liquid chromatography. Chirality, 2017, 29, 430-442.	2.6	17
79	Challenges and innovations in chiral drugs in an environmental and bioanalysis perspective. TrAC - Trends in Analytical Chemistry, 2021, 142, 116326.	11.4	17
80	Environmental Fate of Chiral Pharmaceuticals: Determination, Degradation and Toxicity. Environmental Chemistry for A Sustainable World, 2012, , 3-45.	0.5	17
81	Microfluidic mixing system for precise PLGA-PEG nanoparticles size control. Nanomedicine: Nanotechnology, Biology, and Medicine, 2022, 40, 102482.	3.3	17
82	Resolution, determination of enantiomeric purity and chiral recognition mechanism of new xanthone derivatives on (S,S)â€whelkâ€O1 stationary phase. Chirality, 2017, 29, 247-256.	2.6	16
83	Carboxyxanthones: Bioactive Agents and Molecular Scaffold for Synthesis of Analogues and Derivatives. Molecules, 2019, 24, 180.	3.8	16
84	Quantification of alprenolol and propranolol in human plasma using a two-dimensional liquid chromatography (2D-LC). Journal of Pharmaceutical and Biomedical Analysis, 2017, 141, 1-8.	2.8	15
85	Carbohydrate carbamate coated onto microporous silica: Application to chiral analysis of commercial pharmaceutical drugs. , 1996, 8, 143-146.		14
86	Wastewater analysis of psychoactive drugs: Non-enantioselective vs enantioselective methods for estimation of consumption. Forensic Science International, 2021, 325, 110873.	2.2	14
87	Evaluation of chiral separation by Pirkle-type chiral selector based mixed matrix membranes. Separation and Purification Technology, 2022, 289, 120722.	7.9	13
88	Spatiotemporal Distribution and Sources of Trace Elements in Ave River (Portugal) Lower Basin: Estuarine Water, Sediments and Indigenous Flora. International Journal of Environmental Research, 2019, 13, 303-318.	2.3	12
89	Influence of PDLA nanoparticles size on drug release and interaction with cells. Journal of Biomedical Materials Research - Part A, 2019, 107, 482-493.	4.0	12
90	Ketamine and Norketamine: Enantioresolution and Enantioselective Aquatic Ecotoxicity Studies. Environmental Toxicology and Chemistry, 2022, 41, 569-579.	4.3	12

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91	Priority Substances and Emerging Organic Pollutants in Portuguese Aquatic Environment: A Review. Reviews of Environmental Contamination and Toxicology, 2016, 238, 1-44.	1.3	11
92	New chiral stationary phases for liquid chromatography based on small molecules: Development, enantioresolution evaluation and chiral recognition mechanisms. Chirality, 2020, 32, 81-97.	2.6	10
93	Strategies for Preparation of Chiral Stationary Phases: Progress on Coating and Immobilization Methods. Molecules, 2021, 26, 5477.	3.8	10
94	Microbial degradation of pharmaceuticals followed by a simple HPLC-DAD method. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 2151-2158.	1.7	9
95	Enantiomeric Separation of Tramadol and Its Metabolites: Method Validation and Application to Environmental Samples. Symmetry, 2017, 9, 170.	2.2	9
96	Sardine Roe as a Source of Lipids To Produce Liposomes. ACS Biomaterials Science and Engineering, 2020, 6, 1017-1029.	5.2	9
97	Development and validation of a gas chromatography mass spectrometry method for the analysis of phytoestrogens, phytosterols and mycotoxins in estuarine water samples. International Journal of Environmental Analytical Chemistry, 2015, 95, 187-202.	3.3	8
98	Enantioseparation, recognition mechanisms and binding of xanthones on human serum albumin by liquid chromatography. Bioanalysis, 2019, 11, 1255-1274.	1.5	8
99	Synthesis of New Chiral Derivatives of Xanthones with Enantioselective Effect on Tumor Cell Growth and DNA Crosslinking. ChemistrySelect, 2020, 5, 10285-10291.	1.5	8
100	Enantioselective Synthesis, Enantiomeric Separations and Chiral Recognition. Molecules, 2020, 25, 1713.	3.8	8
101	Assessment of effluents quality through ecotoxicological assays: evaluation of three wastewater treatment plants with different technologies. Environmental Science and Pollution Research, 2022, 29, 963-976.	5.3	8
102	New marine-derived indolymethyl pyrazinoquinazoline alkaloids with promising antimicrobial profiles. RSC Advances, 2020, 10, 31187-31204.	3.6	7
103	Chiral derivatives of xanthones and benzophenones: Synthesis, enantioseparation, molecular docking, and tumor cell growth inhibition studies. Chirality, 2021, 33, 153-166.	2.6	7
104	Quercus suber: A Promising Sustainable Raw Material for Cosmetic Application. Applied Sciences (Switzerland), 2022, 12, 4604.	2.5	7
105	Gas Chromatography Multiresidue Method for Enantiomeric Fraction Determination of Psychoactive Substances in Effluents and River Surface Waters. Chemosensors, 2021, 9, 224.	3.6	6
106	Enantioselectivity of Chiral Derivatives of Xanthones in Virulence Effects of Resistant Bacteria. Pharmaceuticals, 2021, 14, 1141.	3.8	5
107	Analytical Methods for Determination of BPA Released from Dental Resin Composites and Related Materials: A Systematic Review. Critical Reviews in Analytical Chemistry, 0, , 1-16.	3.5	3
108	Separations of chiral aryl alcohol derivatives on the (+)- and (?)-hexahelicen-7-yl acetic acid bonded phases. Chirality, 1999, 11, 416-419.	2.6	2

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109	Erythrocyte-derived liposomes for the treatment of inflammatory diseases. Journal of Drug Targeting, 2022, 30, 873-883.	4.4	2
110	Development and evaluation of Pirkle-type chiral stationary phase for flash chromatography. Journal of Chromatography A, 2022, 1675, 463156.	3.7	2
111	Enantioselective Monitoring of Biodegradation of Ketamine and Its Metabolite Norketamine by Liquid Chromatography. Chemosensors, 2021, 9, 242.	3.6	1
112	CHIRAL PHARMACEUTICALS IN DIVERSE ENVIRONMENTAL MATRICES: OCCURRENCE, REMOVAL AND TOXICITY. Quimica Nova, 2016, , .	0.3	1
113	Maxillary lateral incisor agenesis and microdontia: Minimally invasive symmetric and asymmetric esthetic rehabilitation. Revista Portuguesa De Estomatologia, Medicina Dentaria E Cirurgia Maxilofacial, 2022, 63, .	0.0	1
114	Derivados xantÃ³nicos quirais: aplicaÃ§Ãµes em QuÃmica Medicinal e uma nova abordagem em Cromatografia LÃquida. Scientia Chromatographica, 2015, 7, 223-236.	0.2	0
115	Synthetic strategies towards bioactive nature-inspired indole-containing alkaloids. , 0, , .		0