

# Maria E Tiritan

## List of Publications by Year in descending order

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115  
papers

4,042  
citations

100601

38  
h-index

169272

56  
g-index

116  
all docs

116  
docs citations

116  
times ranked

4204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ketamine and Norketamine: Enantioresolution and Enantioselective Aquatic Ecotoxicity Studies. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 569-579.	2.2	12
2	Assessment of effluents quality through ecotoxicological assays: evaluation of three wastewater treatment plants with different technologies. <i>Environmental Science and Pollution Research</i> , 2022, 29, 963-976.	2.7	8
3	Chiral polymeric membranes: Recent applications and trends. <i>Separation and Purification Technology</i> , 2022, 280, 119800.	3.9	27
4	Microfluidic mixing system for precise PLGA-PEG nanoparticles size control. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102482.	1.7	17
5	Maxillary lateral incisor agenesis and microdontia: Minimally invasive symmetric and asymmetric esthetic rehabilitation. <i>Revista Portuguesa De Estomatologia, Medicina Dentaria E Cirurgia Maxilofacial</i> , 2022, 63, .	0.1	1
6	Evaluation of chiral separation by Pirkle-type chiral selector based mixed matrix membranes. <i>Separation and Purification Technology</i> , 2022, 289, 120722.	3.9	13
7	Erythrocyte-derived liposomes for the treatment of inflammatory diseases. <i>Journal of Drug Targeting</i> , 2022, 30, 873-883.	2.1	2
8	Quercus suber: A Promising Sustainable Raw Material for Cosmetic Application. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4604.	1.3	7
9	Development and evaluation of Pirkle-type chiral stationary phase for flash chromatography. <i>Journal of Chromatography A</i> , 2022, 1675, 463156.	1.8	2
10	An integrative review on the toxicity of Bisphenol A (BPA) released from resin composites used in dentistry. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 1942-1952.	1.6	32
11	Enantioselectivity in Drug Pharmacokinetics and Toxicity: Pharmacological Relevance and Analytical Methods. <i>Molecules</i> , 2021, 26, 3113.	1.7	58
12	Wastewater analysis of psychoactive drugs: Non-enantioselective vs enantioselective methods for estimation of consumption. <i>Forensic Science International</i> , 2021, 325, 110873.	1.3	14
13	Enantioselective Monitoring of Biodegradation of Ketamine and Its Metabolite Norketamine by Liquid Chromatography. <i>Chemosensors</i> , 2021, 9, 242.	1.8	1
14	Gas Chromatography Multiresidue Method for Enantiomeric Fraction Determination of Psychoactive Substances in Effluents and River Surface Waters. <i>Chemosensors</i> , 2021, 9, 224.	1.8	6
15	Strategies for Preparation of Chiral Stationary Phases: Progress on Coating and Immobilization Methods. <i>Molecules</i> , 2021, 26, 5477.	1.7	10
16	Challenges and innovations in chiral drugs in an environmental and bioanalysis perspective. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 142, 116326.	5.8	17
17	From Natural Products to New Synthetic Small Molecules: A Journey through the World of Xanthenes. <i>Molecules</i> , 2021, 26, 431.	1.7	52
18	Chiral derivatives of xanthenes and benzophenones: Synthesis, enantioseparation, molecular docking, and tumor cell growth inhibition studies. <i>Chirality</i> , 2021, 33, 153-166.	1.3	7

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19	Enantioselectivity of Chiral Derivatives of Xanthenes in Virulence Effects of Resistant Bacteria. <i>Pharmaceuticals</i> , 2021, 14, 1141.	1.7	5
20	Chiral Flavonoids as Antitumor Agents. <i>Pharmaceuticals</i> , 2021, 14, 1267.	1.7	19
21	In silico and in vitro antioxidant and cytotoxicity evaluation of oxygenated xanthone derivatives. <i>Arabian Journal of Chemistry</i> , 2020, 13, 17-26.	2.3	26
22	New chiral stationary phases for liquid chromatography based on small molecules: Development, enantioresolution evaluation and chiral recognition mechanisms. <i>Chirality</i> , 2020, 32, 81-97.	1.3	10
23	Sardine Roe as a Source of Lipids To Produce Liposomes. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1017-1029.	2.6	9
24	Analysis of chiral drugs in environmental matrices: Current knowledge and trends in environmental, biodegradation and forensic fields. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115783.	5.8	34
25	Synthesis of New Chiral Derivatives of Xanthenes with Enantioselective Effect on Tumor Cell Growth and DNA Crosslinking. <i>ChemistrySelect</i> , 2020, 5, 10285-10291.	0.7	8
26	New marine-derived indolymethyl pyrazinoquinazoline alkaloids with promising antimicrobial profiles. <i>RSC Advances</i> , 2020, 10, 31187-31204.	1.7	7
27	Separation of Enantiomers Using Gas Chromatography: Application in Forensic Toxicology, Food and Environmental Analysis. <i>Critical Reviews in Analytical Chemistry</i> , 2020, 51, 1-25.	1.8	18
28	Quantification of fluoroquinolones in wastewaters by liquid chromatography-tandem mass spectrometry. <i>Environmental Pollution</i> , 2020, 259, 113927.	3.7	42
29	Enantioselective Synthesis, Enantiomeric Separations and Chiral Recognition. <i>Molecules</i> , 2020, 25, 1713.	1.7	8
30	Chiral Separations in Preparative Scale: A Medicinal Chemistry Point of View. <i>Molecules</i> , 2020, 25, 1931.	1.7	49
31	Multi-residue method for enantioseparation of psychoactive substances and beta blockers by gas chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1125, 121731.	1.2	23
32	Enantioseparation, recognition mechanisms and binding of xanthenes on human serum albumin by liquid chromatography. <i>Bioanalysis</i> , 2019, 11, 1255-1274.	0.6	8
33	Chiral Derivatives of Xanthenes with Antimicrobial Activity. <i>Molecules</i> , 2019, 24, 314.	1.7	30
34	Dual enantioselective LC-MS/MS method to analyse chiral drugs in surface water: Monitoring in Douro River estuary. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 170, 89-101.	1.4	37
35	Chiral Stationary Phases for Liquid Chromatography: Recent Developments. <i>Molecules</i> , 2019, 24, 865.	1.7	111
36	Spatiotemporal Distribution and Sources of Trace Elements in Ave River (Portugal) Lower Basin: Estuarine Water, Sediments and Indigenous Flora. <i>International Journal of Environmental Research</i> , 2019, 13, 303-318.	1.1	12

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37	Synthetic Chiral Derivatives of Xanthenes: Biological Activities and Enantioselectivity Studies. <i>Molecules</i> , 2019, 24, 791.	1.7	31
38	Monitoring of the 17 EU Watch List contaminants of emerging concern in the Ave and the Sousa Rivers. <i>Science of the Total Environment</i> , 2019, 649, 1083-1095.	3.9	120
39	Influence of PDLA nanoparticles size on drug release and interaction with cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 482-493.	2.1	12
40	Carboxyxanthenes: Bioactive Agents and Molecular Scaffold for Synthesis of Analogues and Derivatives. <i>Molecules</i> , 2019, 24, 180.	1.7	16
41	Enantioselective degradation of ofloxacin and levofloxacin by the bacterial strains <i>Labrys portucalensis</i> F11 and <i>Rhodococcus</i> sp. FP1. <i>Ecotoxicology and Environmental Safety</i> , 2018, 155, 144-151.	2.9	32
42	Chiral Stationary Phases Based on Small Molecules: An Update of the Last 17 Years. <i>Separation and Purification Reviews</i> , 2018, 47, 89-123.	2.8	46
43	Liquid chromatographic methods for the therapeutic drug monitoring of methotrexate as clinical decision support for personalized medicine: A brief review. <i>Biomedical Chromatography</i> , 2018, 32, e4159.	0.8	26
44	Lipophilicity assessment in drug discovery: Experimental and theoretical methods applied to xanthone derivatives. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1072, 182-192.	1.2	24
45	Enantiomeric Resolution and Docking Studies of Chiral Xanthonic Derivatives on Chirobiotic Columns. <i>Molecules</i> , 2018, 23, 142.	1.7	32
46	Distribution and environmental assessment of trace elements contamination of water, sediments and flora from Douro River estuary, Portugal. <i>Science of the Total Environment</i> , 2018, 639, 1381-1393.	3.9	52
47	Chiral Drug Analysis in Forensic Chemistry: An Overview. <i>Molecules</i> , 2018, 23, 262.	1.7	59
48	Enantiomeric ratios: Why so many notations?. <i>Journal of Chromatography A</i> , 2018, 1569, 1-7.	1.8	23
49	Assessment of Douro and Ave River (Portugal) lower basin water quality focusing on physicochemical and trace element spatiotemporal changes. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 1056-1066.	0.9	21
50	Enrichment of bacterial strains for the biodegradation of diclofenac and carbamazepine from activated sludge. <i>International Biodeterioration and Biodegradation</i> , 2017, 120, 135-142.	1.9	88
51	Resolution, determination of enantiomeric purity and chiral recognition mechanism of new xanthone derivatives on (<i>S</i>,<i>S</i>)- $\beta$ -cyclodextrin stationary phase. <i>Chirality</i> , 2017, 29, 247-256.	1.3	16
52	New chiral stationary phases based on xanthone derivatives for liquid chromatography. <i>Chirality</i> , 2017, 29, 430-442.	1.3	17
53	Quantification of alprenolol and propranolol in human plasma using a two-dimensional liquid chromatography (2D-LC). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 141, 1-8.	1.4	15
54	Enantiomeric Separation of Tramadol and Its Metabolites: Method Validation and Application to Environmental Samples. <i>Symmetry</i> , 2017, 9, 170.	1.1	9

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55	Chiral Stationary Phases for Liquid Chromatography Based on Chitin- and Chitosan-Derived Marine Polysaccharides. <i>Symmetry</i> , 2017, 9, 190.	1.1	35
56	Chiral Analysis of Pesticides and Drugs of Environmental Concern: Biodegradation and Enantiomeric Fraction. <i>Symmetry</i> , 2017, 9, 196.	1.1	39
57	Chiral Separation in Preparative Scale: A Brief Overview of Membranes as Tools for Enantiomeric Separation. <i>Symmetry</i> , 2017, 9, 206.	1.1	54
58	Occurrence of Chiral Bioactive Compounds in the Aquatic Environment: A Review. <i>Symmetry</i> , 2017, 9, 215.	1.1	31
59	Chiral Derivatives of Xanthenes: Investigation of the Effect of Enantioselectivity on Inhibition of Cyclooxygenases (COX-1 and COX-2) and Binding Interaction with Human Serum Albumin. <i>Pharmaceuticals</i> , 2017, 10, 50.	1.7	23
60	Treatment of a simulated wastewater amended with a chiral pharmaceuticals mixture by an aerobic granular sludge sequencing batch reactor. <i>International Biodeterioration and Biodegradation</i> , 2016, 115, 277-285.	1.9	57
61	Anthropogenic pressure in a Portuguese river: Endocrine-disrupting compounds, trace elements and nutrients. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016, 51, 1043-1052.	0.9	20
62	Integrated liquid chromatography method in enantioselective studies: Biodegradation of ofloxacin by an activated sludge consortium. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1029-1030, 174-183.	1.2	29
63	Chiral enantioresolution of cathinone derivatives present in "legal highs", and enantioselectivity evaluation on cytotoxicity of 3,4-methylenedioxypyrovalerone (MDPV). <i>Forensic Toxicology</i> , 2016, 34, 372-385.	1.4	48
64	Priority Substances and Emerging Organic Pollutants in Portuguese Aquatic Environment: A Review. <i>Reviews of Environmental Contamination and Toxicology</i> , 2016, 238, 1-44.	0.7	11
65	Fluoroquinolones biosorption onto microbial biomass: activated sludge and aerobic granular sludge. <i>International Biodeterioration and Biodegradation</i> , 2016, 110, 53-60.	1.9	54
66	Bacterial degradation of moxifloxacin in the presence of acetate as a bulk substrate. <i>Journal of Environmental Management</i> , 2016, 168, 219-228.	3.8	30
67	Occurrence of persistent organic pollutants in sediments and biota from Portugal versus European incidence: A critical overview. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016, 51, 143-153.	0.7	35
68	Occurrence of Natural Contaminants of Emerging Concern in the Douro River Estuary, Portugal. <i>Archives of Environmental Contamination and Toxicology</i> , 2016, 70, 361-371.	2.1	26
69	CHIRAL PHARMACEUTICALS IN DIVERSE ENVIRONMENTAL MATRICES: OCCURRENCE, REMOVAL AND TOXICITY. <i>Quimica Nova</i> , 2016, , .	0.3	1
70	Removal of fluoxetine and its effects in the performance of an aerobic granular sludge sequential batch reactor. <i>Journal of Hazardous Materials</i> , 2015, 287, 93-101.	6.5	49
71	Dispersive liquid-liquid microextraction and HPLC to analyse fluoxetine and metoprolol enantiomers in wastewaters. <i>Environmental Chemistry Letters</i> , 2015, 13, 203-210.	8.3	19
72	Development and validation of a gas chromatography mass spectrometry method for the analysis of phytoestrogens, phytosterols and mycotoxins in estuarine water samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 187-202.	1.8	8

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73	Derivados xantônicos quirais: aplicação em Química Medicinal e uma nova abordagem em Cromatografia Líquida. <i>Scientia Chromatographica</i> , 2015, 7, 223-236.	0.2	0
74	New chiral derivatives of xanthenes: Synthesis and investigation of enantioselectivity as inhibitors of growth of human tumor cell lines. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 1049-1062.	1.4	41
75	Biodegradation of ofloxacin, norfloxacin, and ciprofloxacin as single and mixed substrates by <i>Labrys portucalensis</i> F11. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3181-3190.	1.7	149
76	Degradation of fluoroquinolone antibiotics and identification of metabolites/transformation products by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1333, 87-98.	1.8	96
77	Enantioselective biodegradation of fluoxetine by the bacterial strain <i>Labrys portucalensis</i> F11. <i>Chemosphere</i> , 2014, 111, 103-111.	4.2	48
78	Enantioselective quantification of fluoxetine and norfluoxetine by HPLC in wastewater effluents. <i>Chemosphere</i> , 2014, 95, 589-596.	4.2	47
79	Performance of aerobic granular sludge in a sequencing batch bioreactor exposed to ofloxacin, norfloxacin and ciprofloxacin. <i>Water Research</i> , 2014, 50, 101-113.	5.3	197
80	New Trends in Sample Preparation Techniques for Environmental Analysis. <i>Critical Reviews in Analytical Chemistry</i> , 2014, 44, 142-185.	1.8	86
81	Enantiomeric fraction evaluation of pharmaceuticals in environmental matrices by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1363, 226-235.	1.8	52
82	Enantioseparation of chiral pharmaceuticals in biomedical and environmental analyses by liquid chromatography: An overview. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 968, 8-21.	1.2	91
83	Small Molecules as Chromatographic Tools for HPLC Enantiomeric Resolution: Pirkle-Type Chiral Stationary Phases Evolution. <i>Chromatographia</i> , 2013, 76, 871-897.	0.7	47
84	Enantioresolution of Chiral Derivatives of Xanthenes on (S)- and (R)-Phenylglycine Stationary Phases and Chiral Recognition Mechanism by Docking Approach for (S)- and (R)-Xanthones. <i>Chirality</i> , 2013, 25, 89-100.	1.3	34
85	Enantioselective HPLC analysis and biodegradation of atenolol, metoprolol and fluoxetine. <i>Environmental Chemistry Letters</i> , 2013, 11, 83-90.	8.3	45
86	Enantioselective biodegradation of pharmaceuticals, alprenolol and propranolol, by an activated sludge inoculum. <i>Ecotoxicology and Environmental Safety</i> , 2013, 87, 108-114.	2.9	53
87	Microbial degradation of pharmaceuticals followed by a simple HPLC-DAD method. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 2151-2158.	0.9	9
88	Resolution and determination of enantiomeric purity of new chiral derivatives of xanthenes using polysaccharide-based stationary phases. <i>Journal of Chromatography A</i> , 2012, 1269, 143-153.	1.8	28
89	Synthesis of new chiral xanthone derivatives acting as nerve conduction blockers in the rat sciatic nerve. <i>European Journal of Medicinal Chemistry</i> , 2012, 55, 1-11.	2.6	32
90	Chiral pharmaceuticals in the environment. <i>Environmental Chemistry Letters</i> , 2012, 10, 239-253.	8.3	76

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91	Enantioseparation and chiral recognition mechanism of new chiral derivatives of xanthonones on macrocyclic antibiotic stationary phases. <i>Journal of Chromatography A</i> , 2012, 1241, 60-68.	1.8	48
92	Environmental Fate of Chiral Pharmaceuticals: Determination, Degradation and Toxicity. <i>Environmental Chemistry for A Sustainable World</i> , 2012, , 3-45.	0.3	17
93	Development and Optimization of a HPLC-DAD Method for the Determination of Diverse Pharmaceuticals in Estuarine Surface Waters. <i>Journal of Chromatographic Science</i> , 2010, 48, 176-182.	0.7	32
94	Spatiotemporal distribution of pharmaceuticals in the Douro River estuary (Portugal). <i>Science of the Total Environment</i> , 2010, 408, 5513-5520.	3.9	116
95	A column-switching method for quantification of the enantiomers of omeprazole in native matrices of waste and estuarine water samples. <i>Talanta</i> , 2010, 82, 384-391.	2.9	41
96	Microbial degradation of 17 $\beta$ -estradiol and 17 $\alpha$ -ethinylestradiol followed by a validated HPLC-DAD method. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2010, 45, 265-273.	0.7	21
97	Distribution of endocrine disruptors in the Mondego River estuary, Portugal. <i>Environmental Monitoring and Assessment</i> , 2009, 149, 183-193.	1.3	58
98	Spatial distribution and quantification of endocrine-disrupting chemicals in Sado River estuary, Portugal. <i>Environmental Monitoring and Assessment</i> , 2009, 159, 415-427.	1.3	28
99	Seasonal and Spatial Distribution of Several Endocrine-Disrupting Compounds in the Douro River Estuary, Portugal. <i>Archives of Environmental Contamination and Toxicology</i> , 2009, 56, 1-11.	2.1	102
100	Pharmaceutical trace analysis in aqueous environmental matrices by liquid chromatography-ion trap tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 7033-7042.	1.8	46
101	Development and Validation of a HPLC-DAD Method for Determination of Several Endocrine Disrupting Compounds in Estuarine Water. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 2729-2746.	0.5	32
102	Multimilligram enantioresolution of low-solubility xanthonolignoids on polysaccharide chiral stationary phases using a solid-phase injection system. <i>Journal of Chromatography A</i> , 2006, 1120, 75-81.	1.8	25
103	Enantiomeric resolution of kielcorin derivatives by HPLC on polysaccharide stationary phases using multimodal elution. <i>Chirality</i> , 2004, 16, 279-285.	1.3	28
104	A QSERR study on enantioselective separation of enantiomeric sulphoxides. <i>Analytica Chimica Acta</i> , 2000, 419, 93-100.	2.6	41
105	ENANTIOSEPARATION ON AMYLOSE TRIS(3,5-DIMETHOXYPHENYL CARBAMATE): APPLICATION TO COMMERCIAL PHARMACEUTICAL CHIRAL DRUGS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1999, 22, 3091-3099.	0.5	22
106	Separations of chiral aryl alcohol derivatives on the (+)- and (-)-hexahelicen-7-yl acetic acid bonded phases. <i>Chirality</i> , 1999, 11, 416-419.	1.3	2
107	Preparative enantioseparation on polysaccharide phase using microporous silica as a support. , 1998, 10, 573-577.		29
108	Enantiomeric resolution by HPLC of axial chiral amides using amylose tris[(S)-1-phenylethylcarbamate]. , 1997, 9, 109-112.		24

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109	Carbohydrate carbamate coated onto microporous silica: Application to chiral analysis of commercial pharmaceutical drugs. , 1996, 8, 143-146.		14
110	Enantiomeric resolution of chiral sulfoxides on polysaccharide phases by HPLC. , 1996, 8, 147-152.		52
111	Developing gossypol derivatives with enhanced antitumor activity. Investigational New Drugs, 1995, 13, 181-186.	1.2	48
112	HPLC with carbohydrate carbamate chiral phases: Influence of chiral phase structure on enantioselectivity. Chirality, 1994, 6, 135-140.	1.3	65
113	Gossypol enantiomer ratios in cotton seeds. Phytochemistry, 1991, 30, 2655-2657.	1.4	62
114	Synthetic strategies towards bioactive nature-inspired indole-containing alkaloids. , 0, , .		0
115	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.	1.8	3