

# Roccaldo Sardella

## List of Publications by Year in descending order

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114  
papers

2,090  
citations

236833

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116  
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116  
docs citations

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times ranked

2294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of 6 $\beta$ -Ethyl-23( <i>S</i> )-methylcholic Acid ( <i>S</i> -EMCA, INT-777) as a Potent and Selective Agonist for the TGR5 Receptor, a Novel Target for Diabesity. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 7958-7961.	2.9	220
2	Determination of bile salt critical micellization concentration on the road to drug discovery. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 87, 62-81.	1.4	65
3	The effect of mobile phase composition in the enantioseparation of pharmaceutically relevant compounds with polysaccharide-based stationary phases. <i>Biomedical Chromatography</i> , 2014, 28, 159-167.	0.8	51
4	Direct enantioseparation of underivatized aliphatic 3-hydroxyalkanoic acids with a quinine-based zwitterionic chiral stationary phase. <i>Journal of Chromatography A</i> , 2014, 1363, 101-108.	1.8	51
5	Targeting Wnt-driven cancers: Discovery of novel tankyrase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017, 142, 506-522.	2.6	47
6	Achiral-chiral two-dimensional chromatography of free amino acids in milk: A promising tool for detecting different levels of mastitis in cows. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 116, 40-46.	1.4	40
7	Mechanistic considerations of enantioselective recognition on novel Cinchona alkaloid-based zwitterionic chiral stationary phases from the aspect of the separation of trans-paroxetine enantiomers as model compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 124, 164-173.	1.4	39
8	Assessment of safety and efficiency of nitrogen organic fertilizers from animal-based protein hydrolysates-a laboratory multidisciplinary approach. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 235-245.	1.7	38
9	Pyrazole[3,4-e][1,4]thiazepin-7-one derivatives as a novel class of Farnesoid X Receptor (FXR) agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 3429-3445.	1.4	37
10	Onion ( <i>Allium cepa</i> L.) Skin: A Rich Resource of Biomolecules for the Sustainable Production of Colored Biofunctional Textiles. <i>Molecules</i> , 2019, 24, 634.	1.7	37
11	( <i>S</i> )-Trityl-L-cysteine, a powerful chiral selector for the analytical and preparative ligand-exchange chromatography of amino acids. <i>Journal of Separation Science</i> , 2008, 31, 696-704.	1.3	36
12	Simultaneous determination of aminoglycosides and colistins in food. <i>Food Chemistry</i> , 2018, 266, 9-16.	4.2	35
13	Antioxidant activity of phenolic extracts from different cultivars of Italian onion ( <i>Allium cepa</i> ) and relative human immune cell proliferative induction. <i>Pharmaceutical Biology</i> , 2016, 54, 799-806.	1.3	34
14	Combined monodimensional chromatographic approaches to monitor the presence of d-amino acids in cheese. <i>Food Control</i> , 2013, 34, 478-487.	2.8	33
15	Advances in indoleamine 2,3-dioxygenase 1 medicinal chemistry. <i>MedChemComm</i> , 2017, 8, 1378-1392.	3.5	33
16	Development and validation of a chiral UHPLC-MS method for the analysis of cysteine enantiomers in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112841.	1.4	33
17	Dynamic ligand-exchange chiral stationary phase from <i>S</i> -benzyl-( <i>R</i> )-cysteine. <i>Chirality</i> , 2006, 18, 509-518.	1.3	31
18	Enantioselective HPLC of potentially CNS-active acidic amino acids with a cinchona carbamate based chiral stationary phase. <i>Chirality</i> , 2008, 20, 571-576.	1.3	30

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19	The effect of the copper(II) salt anion in the Chiral Ligand-Exchange Chromatography of amino acids. <i>Analytica Chimica Acta</i> , 2009, 638, 225-233.	2.6	29
20	Preparative resolution of 1-aminoindan-1,5-dicarboxylic acid (AIDA) by chiral ligand-exchange chromatography. <i>Chirality</i> , 2004, 16, 314-317.	1.3	28
21	Correlation between CMC and chromatographic index: simple and effective evaluation of the hydrophobic/hydrophilic balance of bile acids. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1681-1688.	1.9	28
22	Diastereo- and enantioseparation of a $\alpha$ -Boc amino acid with a zwitterionic quinine-based stationary phase: Focus on the stereorecognition mechanism. <i>Analytica Chimica Acta</i> , 2015, 885, 174-182.	2.6	28
23	Computational studies in enantioselective liquid chromatography: Forty years of evolution in docking- and molecular dynamics-based simulations. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115703.	5.8	28
24	Synthesis and chromatographic enantioresolution of anti-HIV quinolone derivatives. <i>Talanta</i> , 2011, 85, 1392-1397.	2.9	27
25	Chromatographic separation and biological evaluation of benzimidazole derivative enantiomers as inhibitors of leukotriene biosynthesis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 89, 88-92.	1.4	27
26	Quinine-Based Zwitterionic Chiral Stationary Phase as a Complementary Tool for Peptide Analysis: Mobile Phase Effects on Enantio- and Stereoselectivity of Underivatized Oligopeptides. <i>Chirality</i> , 2016, 28, 5-16.	1.3	27
27	Adsorption behaviour of a quinidine carbamate-based chiral stationary phase: Role of the additive. <i>Journal of Chromatography A</i> , 2009, 1216, 3480-3487.	1.8	26
28	Cysteine-based chiral selectors for the ligand-exchange separation of amino acids†. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 875, 108-117.	1.2	25
29	Last ten years (2008–2018) of chiral ligand-exchange chromatography in HPLC: An updated review. <i>Journal of Separation Science</i> , 2019, 42, 21-37.	1.3	25
30	Exploiting Chemical Toolboxes for the Expedited Generation of Tetracyclic Quinolines as a Novel Class of PXR Agonists. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 677-681.	1.3	25
31	Enantioselective high-performance liquid chromatography analysis of oxygenated polyunsaturated fatty acids. <i>Free Radical Biology and Medicine</i> , 2019, 144, 35-54.	1.3	24
32	Laboratory-Scale Preparative Enantioseparations of Pharmaceutically Relevant Compounds on Commercially Available Chiral Stationary Phases for HPLC. <i>Current Medicinal Chemistry</i> , 2017, 24, 796-817.	1.2	24
33	Derived chromatographic indices as effective tools to study the self-aggregation process of bile acids. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 50, 613-621.	1.4	23
34	Continuous flow synthesis and scale-up of glycine- and taurine-conjugated bile salts. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 4109.	1.5	22
35	Direct chromatographic enantioresolution of fully constrained $\beta^2$ -amino acids: exploring the use of high-molecular weight chiral selectors. <i>Amino Acids</i> , 2014, 46, 1235-1242.	1.2	22
36	In-line coupling of a reversed-phase column to cope with limited chemoselectivity of a quinine carbamate-based anion-exchange type chiral stationary phase. <i>Journal of Separation Science</i> , 2008, 31, 1702-1711.	1.3	21

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37	O-Benzyl-(S)-Serine, a New Chiral Selector for Ligand-Exchange Chromatography of Amino Acids. <i>Current Analytical Chemistry</i> , 2005, 1, 85-92.	0.6	20
38	Enantioresolution, stereochemical characterization and biological activity of a chiral large-conductance calcium-activated potassium channel opener. <i>Journal of Chromatography A</i> , 2014, 1363, 162-168.	1.8	20
39	Chromatographic separation of free dafachronic acid epimers with a novel triazole click quinidine-based chiral stationary phase. <i>Journal of Chromatography A</i> , 2014, 1339, 96-102.	1.8	20
40	Liquid chromatography separation of $\hat{1}\pm$ - and $\hat{1}^3$ -linolenic acid positional isomers with a stationary phase based on covalently immobilized cellulose tris(3,5-dichlorophenylcarbamate). <i>Journal of Chromatography A</i> , 2020, 1609, 460461.	1.8	20
41	Toll Like Receptor 4 Affects the Cerebral Biochemical Changes Induced by MPTP Treatment. <i>Neurochemical Research</i> , 2017, 42, 493-500.	1.6	19
42	Chiral mobile phase in ligand-exchange chromatography of amino acids: Exploring the copper(II) salt anion effect with a computational approach. <i>Journal of Chromatography A</i> , 2012, 1269, 316-324.	1.8	18
43	Glucuronidation of bile acids under flow conditions: design of experiments and Koenigs-Knorr reaction optimization. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9592-9600.	1.5	18
44	Ketoprofen enantioseparation with a Cinchona alkaloid based stationary phase: Enantiorecognition mechanism and release studies. <i>Journal of Separation Science</i> , 2014, 37, 2696-2703.	1.3	18
45	Computational studies for the elucidation of the enantiomer elution order of amino acids in chiral ligand-exchange chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 7523-7527.	1.8	17
46	Evaluation of the enantiomeric selectivity in the chiral ligand-exchange chromatography of amino acids by a computational model. <i>Journal of Chromatography A</i> , 2004, 1033, 363-367.	1.8	16
47	(S)-( $\hat{1}\pm$ , $\hat{1}^3$ -Di(2-naphthyl)-2-pyrrolidinemethanol, a useful tool to study the recognition mechanism in chiral ligand-exchange chromatography. <i>Journal of Separation Science</i> , 2007, 30, 21-27.	1.3	16
48	Novel stereoselective synthesis and chromatographic evaluation of E-guggulsterone. <i>Steroids</i> , 2012, 77, 250-254.	0.8	16
49	Electrostatic attraction-repulsion model with Cinchona alkaloid-based zwitterionic chiral stationary phases exemplified for zwitterionic analytes. <i>Analytica Chimica Acta</i> , 2019, 1078, 212-220.	2.6	16
50	Asymmetric synthesis of the four diastereoisomers of a novel non-steroidal farnesoid X receptor (FXR) agonist: Role of the chirality on the biological activity. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3780-3789.	1.4	15
51	Chiral separation of helical chromenes with chloromethyl phenylcarbamate polysaccharide-based stationary phases. <i>Journal of Separation Science</i> , 2018, 41, 1266-1273.	1.3	15
52	Exploring the enantiorecognition mechanism of Cinchona alkaloid-based zwitterionic chiral stationary phases and the basic <i>trans</i> -paroxetine enantiomers. <i>Journal of Separation Science</i> , 2018, 41, 1199-1207.	1.3	15
53	Hydrophilic interaction liquid chromatography of aminoglycoside antibiotics with a diol-type stationary phase. <i>Analytica Chimica Acta</i> , 2018, 1044, 174-180.	2.6	15
54	Descriptive structure-separation relationship studies in chiral ligand-exchange chromatography. <i>Journal of Separation Science</i> , 2008, 31, 2395-2403.	1.3	14

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55	HPLC/ELSD analysis of amidated bile acids: An effective and rapid way to assist continuous flow chemistry processes. <i>Talanta</i> , 2012, 100, 364-371.	2.9	14
56	The "racemic approach" in the evaluation of the enantiomeric NorA efflux pump inhibition activity of 2-phenylquinoline derivatives. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 129, 182-189.	1.4	14
57	Mixed-mode chromatography characteristics of chiralpak ZWIX(+) and ZWIX(â) and elucidation of their chromatographic orthogonality for LC-MS application. <i>Analytica Chimica Acta</i> , 2020, 1093, 168-179.	2.6	14
58	Fast chromatographic determination of the bile salt critical micellar concentration. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 267-274.	1.9	13
59	Simultaneous diastereo- and enantioseparation of farnesoid X receptor (FXR) agonists with a quinine carbamate-based chiral stationary phase. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 847-862.	1.9	13
60	The Relationship between <i>S. aureus</i> and Branched-Chain Amino Acids Content in Composite Cow Milk. <i>Animals</i> , 2019, 9, 981.	1.0	13
61	Effective and Selective Extraction of Quercetin from Onion ( <i>Allium cepa</i> L.) Skin Waste Using Water Dilutions of Acid-Based Deep Eutectic Solvents. <i>Materials</i> , 2021, 14, 6465.	1.3	13
62	Chiral ligand-exchange separation and resolution of extremely rigid glutamate analogs: 1-aminospiro[2.2]pentyl-1,4-dicarboxylic acids. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1997-2011.	1.9	12
63	Chromatographic Enantioresolution of Six Purine Derivatives Endowed with Anti-Human Breast Cancer Activity. <i>Chromatographia</i> , 2013, 76, 475-482.	0.7	12
64	N-Decyl-S-trityl-(R)-cysteine, a new chiral selector for "green" ligand-exchange chromatography applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 144, 31-40.	1.4	12
65	GC-MS/MS detects potential pregabalin abuse in susceptible subjects' hair. <i>Drug Testing and Analysis</i> , 2018, 10, 968-976.	1.6	12
66	Improved chromatographic diastereoresolution of cyclopropyl dafachronic acid derivatives using chiral anion exchangers. <i>Journal of Chromatography A</i> , 2018, 1557, 20-27.	1.8	12
67	Enantioresolution and stereochemical characterization of two chiral sulfoxides endowed with COX-2 inhibitory activity. <i>Chirality</i> , 2017, 29, 536-540.	1.3	11
68	Direct HPLC separation of carnosine enantiomers with two chiral stationary phases based on penicillamine and teicoplanin derivatives. <i>Journal of Separation Science</i> , 2018, 41, 1240-1246.	1.3	11
69	Binding modes identification through molecular dynamic simulations: A case study with carnosine enantiomers and the Teicoplanin A2-based chiral stationary phase. <i>Journal of Separation Science</i> , 2020, 43, 1728-1736.	1.3	11
70	Chromatographic resolution of phenylethanolic-azole racemic compounds highlighted stereoselective inhibition of heme oxygenase-1 by (R)-enantiomers. <i>Bioorganic Chemistry</i> , 2020, 99, 103777.	2.0	11
71	VAMS and StAGE as innovative tools for the enantioselective determination of clenbuterol in urine by LC-MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 195, 113873.	1.4	11
72	Novel orthogonal liquid chromatography methods to dose neurotransmitters involved in Parkinson's disease. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 98, 253-259.	1.4	10

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73	Hydrophobic Amino Acid Content in Onions as Potential Fingerprints of Geographical Origin: The Case of Rossa da Inverno sel. Rojo Duro. <i>Molecules</i> , 2018, 23, 1259.	1.7	10
74	Elucidation of the Chromatographic Enantiomer Elution Order Through Computational Studies. <i>Mini-Reviews in Medicinal Chemistry</i> , 2018, 18, 88-97.	1.1	10
75	Antioxidant Power on Dermal Cells by Textiles Dyed with an Onion ( <i>Allium cepa</i> L.) Skin Extract. <i>Antioxidants</i> , 2021, 10, 1655.	2.2	10
76	Side-chain modified bile acids: chromatographic separation of 23-methyl epimers. <i>Journal of Separation Science</i> , 2009, 32, 2022-2033.	1.3	9
77	S-Trityl-( <i>S</i> )-Cysteine, a Multipurpose Chiral Selector for Ligand-Exchange Liquid Chromatography Applications. <i>Critical Reviews in Analytical Chemistry</i> , 2015, 45, 323-333.	1.8	9
78	Quantitative Evaluation of the Pyruvic Acid Content in Onion Samples with a Fully Validated High-Performance Liquid Chromatography Method. <i>International Journal of Food Properties</i> , 2016, 19, 752-759.	1.3	9
79	Application of the "inverted chirality columns approach" for the monitoring of asymmetric synthesis protocols. <i>Talanta</i> , 2019, 203, 147-152.	2.9	8
80	Enantioselective HPLC Analysis to Assist the Chemical Exploration of Chiral Imidazolines. <i>Molecules</i> , 2020, 25, 640.	1.7	8
81	Efficient enantioresolution of aromatic $\pm$ -hydroxy acids with Cinchona alkaloid-based zwitterionic stationary phases and volatile polar-ionic eluents. <i>Analytica Chimica Acta</i> , 2021, 1180, 338928.	2.6	8
82	Separation and determination of cysteine enantiomers in plasma after derivatization with 4-fluoro-7-nitrobenzofurazan. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 209, 114539.	1.4	8
83	Transfer of a Multiclass Method for over 60 Antibiotics in Food from High Resolution to Low Resolution Mass Spectrometry. <i>Molecules</i> , 2019, 24, 2935.	1.7	7
84	Optimized one-pot derivatization and enantioseparation of cysteine: Application to the study of a dietary supplement. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 180, 113066.	1.4	7
85	Fragment based drug design and diversity-oriented synthesis of carboxylic acid isosteres. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115731.	1.4	7
86	Improved Achiral and Chiral HPLC-UV Analysis of Ruxolitinib in Two Different Drug Formulations. <i>Separations</i> , 2020, 7, 47.	1.1	7
87	Use of a Zwitterionic Surfactant to Improve the Biofunctional Properties of Wool Dyed with an Onion ( <i>Allium cepa</i> L.) Skin Extract. <i>Antioxidants</i> , 2020, 9, 1055.	2.2	7
88	Dominant Factors Affecting the Chromatographic Behaviour of Bile Acids. <i>Chromatographia</i> , 2006, 64, 343-349.	0.7	6
89	Synthesis and chromatographic resolution of conformationally constrained analogues of homotaurine. <i>Tetrahedron</i> , 2009, 65, 8756-8762.	1.0	6
90	8.8 Chromatographic Separations and Analysis: Chiral Ion and Ligand Exchange Stationary Phases. , 2012, , 115-152.		6

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91	Synthesis and Quantitative Structure-Property Relationships of Side Chain-Modified Hyodeoxycholic Acid Derivatives. <i>Molecules</i> , 2013, 18, 10497-10513.	1.7	6
92	The Relationships between Somatic Cells and Isoleucine, Leucine and Tyrosine Content in Cow Milk. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 349.	1.3	6
93	Exploiting Food-Grade Mesoporous Silica to Preserve the Antioxidant Properties of Fresh Olive Mill Wastewaters Phenolic Extracts. <i>Antioxidants</i> , 2021, 10, 1361.	2.2	6
94	Development and validation of a HPLC method for the direct separation of carnosine enantiomers and analogues in dietary supplements. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1126-1127, 121747.	1.2	5
95	Quantitative analysis of cucurbitane-type triterpenes in <i>Ibervillea sonorae</i> extracts: Relationship study with their antiproliferative activity. <i>Steroids</i> , 2020, 161, 108676.	0.8	5
96	Branched-chain Amino Acids as Potential Diagnostic and Prognostic Disease Biomarkers. <i>International Journal of Clinical Research &amp; Trials</i> , 2017, 2, .	1.6	5
97	Original enantioseparation of illicit fentanyls with cellulose-based chiral stationary phases under polar-ionic conditions. <i>Journal of Chromatography A</i> , 2021, 1643, 462088.	1.8	4
98	Enantioseparation of novel anti-inflammatory chiral sulfoxides with two cellulose dichlorophenylcarbamate-based chiral stationary phases and polar-organic mobile phase(s). <i>Journal of Chromatography Open</i> , 2021, 1, 100022.	0.8	4
99	Use of an <i>o</i> -Benzyl-( <i>S</i> )-Serine Containing Eluent for the Efficient Ligand-Exchange Chromatography-Based Enantioseparation of Constrained Glutamate Receptor Ligands. <i>Analytical Letters</i> , 2015, 48, 383-395.	1.0	3
100	Cyclopropyl-containing sulfonyl amino acids: Exploring the enantioseparation through chiral ligand-exchange chromatography. <i>Russian Journal of General Chemistry</i> , 2017, 87, 1079-1084.	0.3	3
101	Enantioseparations by High-Performance Liquid Chromatography Based on Chiral Ligand Exchange. <i>Methods in Molecular Biology</i> , 2019, 1985, 279-302.	0.4	3
102	Integrating experimental and computational techniques to study chromatographic enantioresolutions of chiral tetrahydroindazole derivatives. <i>Journal of Chromatography A</i> , 2020, 1625, 461310.	1.8	3
103	In-depth characterization of phenolic profiling of Moraiolo extra-virgin olive oil extract and initial investigation of the inhibitory effect on Indoleamine-2,3-Dioxygenase (IDO1) enzyme. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 213, 114688.	1.4	3
104	Enantioseparations by High-Performance Liquid Chromatography Based on Chiral Ligand-Exchange. <i>Methods in Molecular Biology</i> , 2013, 970, 191-208.	0.4	2
105	Quantitative assay of capreomycin oleate levels in a drug formulation for inhalation with a fully validated HPLC method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 120, 413-418.	1.4	2
106	Laboratory-Scale Semipreparative Enantioresolution of Phenylethanoic-Azole Heme Oxygenase-1 Inhibitors. <i>Chromatographia</i> , 2020, 83, 1509-1515.	0.7	2
107	Synthesis and biological activity of cyclopropyl $\beta$ -7-dafachronic acids as DAF-12 receptor ligands. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5403-5412.	1.5	2
108	- Mechanistic Aspects of Chiral Recognition on Protein-Based Stationary Phases. , 2016, 49, 46-79.		2

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109	Initial In Vivo Evaluation of a Novel Amikacin-Deoxycholate Hydrophobic Salt Delivers New Insights on Amikacin Partition in Blood and Tissues. <i>Pharmaceutics</i> , 2021, 13, 85.	2.0	1
110	Importance of Quantitative Analysis of Toxic Biogenic Amines in Food Matrices. <i>International Journal of Clinical Research &amp; Trials</i> , 2018, 3, .	1.6	1
111	Elucidation of retention mechanism of dipeptides on a ristocetin A-based chiral stationary phase using a combination of chromatographic and molecular simulation techniques. <i>Journal of Chromatography A</i> , 2022, 1675, 463158.	1.8	1
112	Navigations of chemical space to further the understanding of polypharmacology in human nuclear receptors. <i>MedChemComm</i> , 2013, 4, 216-227.	3.5	0
113	Editorial: Chromatographic Enantioseparations in Pharmaceutical Analysis: From the Analytical to the Preparative-Scale. <i>Current Medicinal Chemistry</i> , 2017, 24, 742-742.	1.2	0
114	Optimized Extraction of Amikacin from Murine Whole Blood. <i>Molecules</i> , 2021, 26, 665.	1.7	0