Benedetto Natalini

List of Publications by Year
in descending order

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67	1,371	304743	414414
papers	citations	22 h-index	32 g-index

68	68	68	1134
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and Pharmacological Characterization of All Sixteen Stereoisomers of 2-(2â€˜-Carboxy-3â€˜-phenylcyclopropyl)glycine. Focus on (2S,1â€˜S,2â€˜S,3â€˜R)-2-(2â€˜-Carboxy-3â€˜-phenylcyclopropyl)glycine, a Novel and Selective Group II Metabotropic Glutamate Receptors Antagonist. Journal of Medicinal Chemistry, 1996, 39, 2259-2269.	6.4	107
2	The effect of mobile phase composition in the enantioseparation of pharmaceutically relevant compounds with polysaccharideâ€based stationary phases. Biomedical Chromatography, 2014, 28, 159-167.	1.7	51
3	Direct enantioseparation of underivatized aliphatic 3-hydroxyalkanoic acids with a quinine-based zwitterionic chiral stationary phase. Journal of Chromatography A, 2014, 1363, 101-108.	3.7	51
4	Synthesis and biological evaluation of cyclopropyl analogs of 2-amino-5-phosphonopentanoic acid. Journal of Medicinal Chemistry, 1991, 34, 161-168.	6.4	50
5	D-3,4-â€˜cyclopropylglutamateâ€™ isomers as nmda receptor ligands: Synthesis and enantioselective activity.. Tetrahedron Letters, 1990, 31, 139-142.	1.4	46
6	Achiralâ€“chiral two-dimensional chromatography of free amino acids in milk: A promising tool for detecting different levels of mastitis in cows. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 40-46.	2.8	40
7	Mechanistic considerations of enantiorecognition on novel Cinchona alkaloid-based zwitterionic chiral stationary phases from the aspect of the separation of trans-paroxetine enantiomers as model compounds. Journal of Pharmaceutical and Biomedical Analysis, 2016, 124, 164-173.	2.8	39
8	Onion (Allium cepa L.) Skin: A Rich Resource of Biomolecules for the Sustainable Production of Colored Biofunctional Textiles. Molecules, 2019, 24, 634.	3.8	37
9	Sâ€Tritylâ€(R)â€cysteine, a powerful chiral selector for the analytical and preparative ligandâ€exchange chromatography of amino acids. Journal of Separation Science, 2008, 31, 696-704.	2.5	36
10	Antioxidant activity of phenolic extracts from different cultivars of Italian onion (Allium cepa) and relative human immune cell proliferative induction. Pharmaceutical Biology, 2016, 54, 799-806.	2.9	34
11	Combined monodimensional chromatographic approaches to monitor the presence of d-amino acids in cheese. Food Control, 2013, 34, 478-487.	5.5	33
12	Development and validation of a chiral UHPLC-MS method for the analysis of cysteine enantiomers in biological samples. Journal of Pharmaceutical and Biomedical Analysis, 2020, 177, 112841.	2.8	33
13	Dynamic ligand-exchange chiral stationary phase from S-benzyl-(R)-cysteine. Chirality, 2006, 18, 509-518.	2.6	31
14	Enantioselective HPLC of potentially CNSâ€active acidic amino acids with a cinchona carbamate based chiral stationary phase. Chirality, 2008, 20, 571-576.	2.6	30
15	The effect of the copper(II) salt anion in the Chiral Ligand-Exchange Chromatography of amino acids. Analytica Chimica Acta, 2009, 638, 225-233.	5.4	29
16	Preparative resolution of 1-aminoindan-1,5-dicarboxylic acid (AIDA) by chiral ligand-exchange chromatography. Chirality, 2004, 16, 314-317.	2.6	28
17	Diastereo- and enantioseparation of a NÎ±-Boc amino acid with a zwitterionic quinine-based stationary phase: Focus on the stereorecognition mechanism. Analytica Chimica Acta, 2015, 885, 174-182.	5.4	28
18	Synthesis and chromatographic enantioresolution of anti-HIV quinolone derivatives. Talanta, 2011, 85, 1392-1397.	5.5	27

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19	Quinineâ€Based Zwitterionic Chiral Stationary Phase as a Complementary Tool for Peptide Analysis: Mobile Phase Effects on Enantioâ€•and Stereoselectivity of Underivatized Oligopeptides. Chirality, 2016, 28, 5-16.	2.6	27
20	Cysteine-based chiral selectors for the ligand-exchange separation of amino acidsâ˜†. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 875, 108-117.	2.3	25
21	Last ten years (2008â€“2018) of chiral ligandâ€exchange chromatography in HPLC: An updated review. Journal of Separation Science, 2019, 42, 21-37.	2.5	25
22	Synthesis and Preliminary Biological Evaluation of 2â€²-Substituted 2-(3â€²-Carboxybicyclo[1.1.1]pentyl)glycine Derivatives as Groupâ€…I Selective Metabotropic Glutamate Receptor Ligands. ChemMedChem, 2006, 1, 358-365.	3.2	24
23	Enantioselective high-performance liquid chromatography analysis of oxygenated polyunsaturated fatty acids. Free Radical Biology and Medicine, 2019, 144, 35-54.	2.9	24
24	Direct chromatographic enantioresolution of fully constrained Î²-amino acids: exploring the use of high-molecular weight chiral selectors. Amino Acids, 2014, 46, 1235-1242.	2.7	22
25	Inâ€line coupling of a reversedâ€phase column to cope with limited chemoselectivity of a quinine carbamateâ€based anionâ€exchange type chiral stationary phase. Journal of Separation Science, 2008, 31, 1702-1711.	2.5	21
26	O-Benzyl-(S)-Serine, a New Chiral Selector for Ligand-Exchange Chromatography of Amino Acids. Current Analytical Chemistry, 2005, 1, 85-92.	1.2	20
27	Enantioresolution, stereochemical characterization and biological activity of a chiral large-conductance calcium-activated potassium channel opener. Journal of Chromatography A, 2014, 1363, 162-168.	3.7	20
28	Chromatographic separation of free dafachronic acid epimers with a novel triazole click quinidine-based chiral stationary phase. Journal of Chromatography A, 2014, 1339, 96-102.	3.7	20
29	Chiral mobile phase in ligand-exchange chromatography of amino acids: Exploring the copper(II) salt anion effect with a computational approach. Journal of Chromatography A, 2012, 1269, 316-324.	3.7	18
30	Ketoprofen enantioseparation with a Cinchona alkaloid based stationary phase: Enantiorecognition mechanism and release studies. Journal of Separation Science, 2014, 37, 2696-2703.	2.5	18
31	Computational studies for the elucidation of the enantiomer elution order of amino acids in chiral ligand-exchange chromatography. Journal of Chromatography A, 2010, 1217, 7523-7527.	3.7	17
32	Isolation of pure (2S,1â€²S,2â€²S)-2-(2â€²-carboxycyclopropyl)glycine from Blighia sapida (Akee). Journal of Chromatography A, 2000, 873, 283-286.	3.7	16
33	Evaluation of the enantiomeric selectivity in the chiral ligand-exchange chromatography of amino acids by a computational model. Journal of Chromatography A, 2004, 1033, 363-367.	3.7	16
34	(S)-(â€“)-Î±,Î±-Di(2-naphthyl)-2-pyrrolidinemethanol, a useful tool to study the recognition mechanism in chiral ligand-exchange chromatography. Journal of Separation Science, 2007, 30, 21-27.	2.5	16
35	Novel stereoselective synthesis and chromatographic evaluation of E-guggulsterone. Steroids, 2012, 77, 250-254.	1.8	16
36	Asymmetric synthesis of the four diastereoisomers of a novel non-steroidal farnesoid X receptor (FXR) agonist: Role of the chirality on the biological activity. Bioorganic and Medicinal Chemistry, 2013, 21, 3780-3789.	3.0	15

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37	Hydrophilic interaction liquid chromatography of aminoglycoside antibiotics with a diol-type stationary phase. Analytica Chimica Acta, 2018, 1044, 174-180.	5.4	15
38	Descriptive structureâ€“separation relationship studies in chiral ligandâ€exchange chromatography. Journal of Separation Science, 2008, 31, 2395-2403.	2.5	14
39	HPLC/ELSD analysis of amidated bile acids: An effective and rapid way to assist continuous flow chemistry processes. Talanta, 2012, 100, 364-371.	5.5	14
40	The â€œracemic approachâ€•in the evaluation of the enantiomeric NorA efflux pump inhibition activity of 2-phenylquinoline derivatives. Journal of Pharmaceutical and Biomedical Analysis, 2016, 129, 182-189.	2.8	14
41	Fast chromatographic determination of the bile salt critical micellar concentration. Analytical and Bioanalytical Chemistry, 2011, 401, 267-274.	3.7	13
42	Simultaneous diastereo- and enantioseparation of farnesoid X receptor (FXR) agonists with a quinine carbamate-based chiral stationary phase. Analytical and Bioanalytical Chemistry, 2013, 405, 847-862.	3.7	13
43	The Relationship between S. aureus and Branched-Chain Amino Acids Content in Composite Cow Milk. Animals, 2019, 9, 981.	2.3	13
44	Chiral ligand-exchange separation and resolution of extremely rigid glutamate analogs: 1-aminospiro[2.2]pentyl-1,4-dicarboxylic acids. Analytical and Bioanalytical Chemistry, 2010, 397, 1997-2011.	3.7	12
45	Chromatographic Enantioresolution of Six Purine Derivatives Endowed with Anti-Human Breast Cancer Activity. Chromatographia, 2013, 76, 475-482.	1.3	12
46	N -Decyl- S -trityl-(R)-cysteine, a new chiral selector for â€œgreenâ€•ligand-exchange chromatography applications. Journal of Pharmaceutical and Biomedical Analysis, 2017, 144, 31-40.	2.8	12
47	GCâ€MS/MS detects potential pregabalin abuse in susceptible subjectsâ€™ hair. Drug Testing and Analysis, 2018, 10, 968-976.	2.6	12
48	Improved chromatographic diastereoresolution of cyclopropyl dafachronic acid derivatives using chiral anion exchangers. Journal of Chromatography A, 2018, 1557, 20-27.	3.7	12
49	Enantioresolution and stereochemical characterization of two chiral sulfoxides endowed with COXâ€2 inhibitory activity. Chirality, 2017, 29, 536-540.	2.6	11
50	Novel orthogonal liquid chromatography methods to dose neurotransmitters involved in Parkinson's disease. Journal of Pharmaceutical and Biomedical Analysis, 2014, 98, 253-259.	2.8	10
51	Hydrophobic Amino Acid Content in Onions as Potential Fingerprints of Geographical Origin: The Case of Rossa da Inverno sel. Rojo Duro. Molecules, 2018, 23, 1259.	3.8	10
52	Sideâ€chain modified bile acids: chromatographic separation of 23â€methyl epimers. Journal of Separation Science, 2009, 32, 2022-2033.	2.5	9
53	S-Trityl-(R)-Cysteine, a Multipurpose Chiral Selector for Ligand-Exchange Liquid Chromatography Applications. Critical Reviews in Analytical Chemistry, 2015, 45, 323-333.	3.5	9
54	Quantitative Evaluation of the Pyruvic Acid Content in Onion Samples with a Fully Validated High-Performance Liquid Chromatography Method. International Journal of Food Properties, 2016, 19, 752-759.	3.0	9

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55	Characterization of d-3,4-cyclopropylglutamates as receptor agonists. Neuroscience Letters, 1990, 112, 328-332.	2.1	8
56	Application of the â€œinverted chirality columns approachâ€•for the monitoring of asymmetric synthesis protocols. Talanta, 2019, 203, 147-152.	5.5	8
57	Synthesis, absolute configuration and activity at N-methyl-D-aspartic acid (NMDA) receptor of the four D-2-amino-4,5-methano-adipate diastereoisomers. Il Farmaco, 1991, 46, 1243-64.	0.9	7
58	8.8 Chromatographic Separations and Analysis: Chiral Ion and Ligand Exchange Stationary Phases. , 2012, , 115-152.		6
59	Synthesis and Quantitative Structure-Property Relationships of Side Chain-Modified Hyodeoxycholic Acid Derivatives. Molecules, 2013, 18, 10497-10513.	3.8	6
60	The Relationships between Somatic Cells and Isoleucine, Leucine and Tyrosine Content in Cow Milk. Applied Sciences (Switzerland), 2019, 9, 349.	2.5	6
61	Synthesis and biological evaluation of 6-carboxy-3,4-methanoprolines, new rigid glutamate analogs. Il Farmaco, 1995, 50, 327-31.	0.9	6
62	Branched-chain Amino Acids as Potential Diagnostic and Prognostic Disease Biomarkers. International Journal of Clinical Research & Trials, 2017, 2, .	1.6	5
63	Rapid Detection of D-amino Acids in Cheese with a Chiral Ligand- Exchange Chromatography System. Current Analytical Chemistry, 2012, 8, 319-327.	1.2	5
64	Use of an o-Benzyl-(S)-Serine Containing Eluent for the Efficient Ligand-Exchange Chromatography-Based Enantioseparation of Constrained Glutamate Receptor Ligands. Analytical Letters, 2015, 48, 383-395.	1.8	3
65	Cyclopropyl-containing sulfonyl amino acids: Exploring the enantioseparation through chiral ligand-exchange chromatography. Russian Journal of General Chemistry, 2017, 87, 1079-1084.	0.8	3
66	Quantitative assay of capreomycin oleate levels in a drug formulation for inhalation with a fully validated HPLC method. Journal of Pharmaceutical and Biomedical Analysis, 2016, 120, 413-418.	2.8	2
67	- Mechanistic Aspects of Chiral Recognition on Protein-Based Stationary Phases. , 2016, 49, 46-79.		2