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Recent advances in the direct and indirect liquid chromatographic enantioseparation of amino acids and related compounds: a review

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#	Paper	IF	Citations
90	LC Enantioseparation of 30-Component Diastereomeric Mixture of Amino Acids and Detection of d-Isomers Using New Reagents with Amines as Chiral Auxiliaries in Cyanuric Chloride. <i>Chromatographia</i> , <b>2013</b> , 76, 1087-1096	2.1	4
89	Use of chiral derivatization for the determination of dichlorprop in tea samples by ultra performance LC with fluorescence detection. <i>Journal of Separation Science</i> , <b>2013</b> , 36, 1356-61	3.4	11
88	Enantioselective separation of unusual amino acids by high performance liquid chromatography. <i>Separation and Purification Technology</i> , <b>2013</b> , 119, 123-128	8.3	23
87	Recent advances in on-line concentration and separation of amino acids using capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7919-30	4.4	38
86	Enantioselectivity of mass spectrometry: challenges and promises. <i>Mass Spectrometry Reviews</i> , <b>2013</b> , 32, 466-83	11	57
85	HIGH PERFORMANCE LIQUID CHROMATOGRAPHIC METHOD FOR ENANTIOSEPARATION OF UNDERIVATIZED $\alpha$ -AMINO ACIDS USING CYCLOFRUCTAN BASED CHIRAL STATIONARY PHASES. <i>Nova Biotechnologica Et Chimica</i> , <b>2013</b> , 12, 108-119	0.4	5
84	Synthesis and evaluation of two coumarin-type derivatization reagents for fluorescence detection of chiral amines and chiral carboxylic acids. <i>Chirality</i> , <b>2013</b> , 25, 957-64	2.1	7
83	Unusual temperature-induced retention behavior of constrained $\alpha$ -amino acid enantiomers on the zwitterionic chiral stationary phases ZWIX(+) and ZWIX(-). <i>Chirality</i> , <b>2014</b> , 26, 385-93	2.1	33
82	Effect of mobile phase composition on the liquid chromatographic enantioseparation of bulky monoterpene-based $\alpha$ -amino acids by applying chiral stationary phases based on Cinchona alkaloid. <i>Journal of Separation Science</i> , <b>2014</b> , 37, 1075-82	3.4	23
81	Magnetic separation techniques in sample preparation for biological analysis: a review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 101, 84-101	3.5	181
80	Recent developments in chiral analysis of $\beta$ -blocker drugs by capillary electromigration techniques. <i>Electrophoresis</i> , <b>2014</b> , 35, 3345-54	3.6	10
79	Preparation and studies of chiral stationary phases containing enantiopure acridino-18-crown-6 ether selectors. <i>Chirality</i> , <b>2014</b> , 26, 651-4	2.1	15
78	Chiral Liquid Chromatography: Recent Applications with Special Emphasis on the Enantioseparation of Amino Compounds. <b>2015</b> , 299-320		
77	Comparison of the separation performances of cinchona alkaloid-based zwitterionic stationary phases in the enantioseparation of $\alpha$ - and $\beta$ -amino acids. <i>Molecules</i> , <b>2014</b> , 20, 70-87	4.8	16
76	Molecularly imprinted polymers for the selective recognition of l-phenylalanine based on 1-buty-3-methylimidazolium ionic liquid. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	14
75	High-Performance Liquid Chromatographic Enantioseparation of Cyclic $\alpha$ -Amino Acids on Zwitterionic Chiral Stationary Phases Based on Cinchona Alkaloids. <i>Chirality</i> , <b>2015</b> , 27, 563-70	2.1	16
74	High-performance liquid chromatographic separation of unusual $\beta$ -amino acid enantiomers in different chromatographic modes on Cinchona alkaloid-based zwitterionic chiral stationary phases. <i>Amino Acids</i> , <b>2015</b> , 47, 2279-91	3.5	18

73	Investigation of the structure-selectivity relationships and van't Hoff analysis of chromatographic stereoisomer separations of unusual isoxazoline-fused 2-aminocyclopentanecarboxylic acids on Cinchona alkaloid-based chiral stationary phases. <i>Journal of Chromatography A</i> , <b>2015</b> , 1384, 67-75	4.5	13
72	Direct chiral resolution of underivatized amino acids on a stationary phase dynamically modified with the ion-exchanger N-(11-decyl-L-spinacine. <i>Journal of Separation Science</i> , <b>2015</b> , 38, 894-900	3.4	2
71	Teicoplanin bonded sub-2 $\mu$ m superficially porous particles for enantioseparation of native amino acids. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 114, 247-53	3.5	18
70	Enantioresolution of Amino Acids: A Decade's Perspective, Prospects and Challenges. <i>Chromatographia</i> , <b>2015</b> , 78, 1113-1134	2.1	25
69	Application of Cinchona alkaloid-based zwitterionic chiral stationary phases in supercritical fluid chromatography for the enantioseparation of N-protected proteinogenic amino acids. <i>Journal of Chromatography A</i> , <b>2015</b> , 1415, 134-45	4.5	22
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66	A novel method for the preparation of a chiral stationary phase containing an enantiopure acridino-18-crown-6 ether selector. <i>Journal of Chromatographic Science</i> , <b>2015</b> , 53, 431-5	1.4	7
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64	Chromatographic Separations and Analysis: Diastereomeric Derivatization for Chromatography?. <b>2016</b> ,		
63	A Comparative Study of Enantioseparations of N-Fmoc Proteinogenic Amino Acids on Quinine-Based Zwitterionic and Anion Exchanger-Type Chiral Stationary Phases under Hydro-Organic Liquid and Subcritical Fluid Chromatographic Conditions. <i>Molecules</i> , <b>2016</b> , 21,	4.8	10
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58	High pressure Raman spectra of monoglycine nitrate single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 161, 109-14	4.4	10
57	Extra-facile chiral separation of amino acid enantiomers by LC-TOFMS analysis. <i>Journal of Bioscience and Bioengineering</i> , <b>2016</b> , 121, 349-53	3.3	27
56	Chiral analysis of aromatic amino acids in food supplements using subcritical fluid chromatography and Chirobiotic T2 column. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 107, 519-525	4.2	34

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54	Trans-Himalayan Edgew. root: a novel source of dietary amino acids, fatty acids and minerals. <i>Journal of Food Science and Technology</i> , <b>2017</b> , 54, 359-367	3.3	11
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52	Liquid and subcritical fluid chromatographic enantioseparation of N -Fmoc proteinogenic amino acids on Quinidine-based zwitterionic and anion-exchanger type chiral stationary phases. A comparative study. <i>Chirality</i> , <b>2017</b> , 29, 225-238	2.1	10
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36	Mechanistic study on the high-selectivity enantioseparation of amino acids using a chiral crown ether-bonded stationary phase and acidic, highly organic mobile phase by liquid chromatography/time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , <b>2018</b> , 1578, 35-44	4.5	22
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7	Indirect Enantioseparations: Recent Advances in Chiral Metabolomics for Biomedical Research. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 7428	6.3	0
6	A simple protocol for determination of enantiopurity of amines using BINOL derivatives as chiral solvating agents via $^1\text{H}$ - and $^{19}\text{F}$ -NMR spectroscopic analysis. <b>2022</b> , 12, 25457-25464		0
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3	Diastereomeric Derivatization for Chromatography. <b>2022</b> ,		0
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- 1 Enantiomeric purity analysis of synthetic peptide therapeutics by direct chiral high-performance liquid chromatography-electrospray ionization tandem mass spectrometry. **2023**, 1219, 123638

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