

Christopher J Welch

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196
papers

6,956
citations

46
h-index

71
g-index

205
ext. papers

7,500
ext. citations

5.3
avg, IF

5.98
L-index

#	Paper	IF	Citations
196	Fragmentation of Polyfunctional Compounds Recorded Using Automated High-Throughput Desorption Electrospray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2261-2273 ⁵	3.5	5
195	William H. Pirkle: Stereochemistry pioneer. <i>Chirality</i> , 2020 , 32, 961-974	2.1	3
194	Next-Generation TLC: A Quantitative Platform for Parallel Spotting and Imaging. <i>Journal of Organic Chemistry</i> , 2020 , 85, 9447-9453	4.2	4
193	Mass Activated Droplet Sorting (MADS) Enables High-Throughput Screening of Enzymatic Reactions at Nanoliter Scale. <i>Angewandte Chemie</i> , 2020 , 132, 4500-4507	3.6	8
192	Cross-Pharma Collaboration on the Development and Evaluation of a New Mid-Scale Preparative Supercritical Fluid Chromatography Instrument. <i>Organic Process Research and Development</i> , 2020 , 24, 1271-1280	3.9	4
191	Mass Activated Droplet Sorting (MADS) Enables High-Throughput Screening of Enzymatic Reactions at Nanoliter Scale. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4470-4477	16.4	58
190	High-Throughput Determination of Enantiopurity by Microplate Circular Dichroism. <i>Journal of Organic Chemistry</i> , 2020 , 85, 10858-10864	4.2	12
189	High throughput analysis enables high throughput experimentation in pharmaceutical process research. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1895-1911	4.9	33
188	Optical Chirality Sensing with a Stereodynamic Aluminum Biphenolate Probe. <i>Journal of Organic Chemistry</i> , 2019 , 84, 4639-4645	4.2	15
187	Modeling and predicting chiral stationary phase enantioselectivity: An efficient random forest classifier using an optimally balanced training dataset and an aggregation strategy. <i>Journal of Separation Science</i> , 2018 , 41, 1365-1375	3.4	12
186	Enabling Biocatalysis by High-Throughput Protein Engineering Using Droplet Microfluidics Coupled to Mass Spectrometry. <i>ACS Omega</i> , 2018 , 3, 1498-1508	3.9	53
185	Accelerated Forced Degradation of Pharmaceuticals in Levitated Microdroplet Reactors. <i>Chemistry - A European Journal</i> , 2018 , 24, 7349-7353	4.8	30
184	Mapping the dark space of chemical reactions with extended nanomole synthesis and MALDI-TOF MS. <i>Science</i> , 2018 , 361,	33.3	78
183	Assessment of coulometric array electrochemical detection coupled with HPLC-UV for the absolute quantitation of pharmaceuticals. <i>Analyst, The</i> , 2017 , 142, 525-536	5	4
182	Ultrafast Chiral Chromatography as the Second Dimension in Two-Dimensional Liquid Chromatography Experiments. <i>Analytical Chemistry</i> , 2017 , 89, 3545-3553	7.8	84
181	The Enabling Technologies Consortium (ETC): Fostering Precompetitive Collaborations on New Enabling Technologies for Pharmaceutical Research and Development. <i>Organic Process Research and Development</i> , 2017 , 21, 414-419	3.9	17
180	Separation of small interfering RNA stereoisomers using reversed-phase ion-pairing chromatography. <i>Journal of Chromatography A</i> , 2017 , 1500, 84-88	4.5	14

179	Palladium-Catalyzed Enantioselective Arylation of Aryl Sulfenate Anions: A Combined Experimental and Computational Study. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8337-8345	16.4	46
178	Overcoming "speed limits" in high throughput chromatographic analysis. <i>Journal of Chromatography A</i> , 2017 , 1499, 211-216	4.5	34
177	Online sensing of palladium in flowing streams. <i>Chemical Communications</i> , 2017 , 53, 720-723	5.8	13
176	Liquid chromatographic separation of oligonucleotides 2017 , 159-182		4
175	An Asymmetric, Catalytic (4 + 3) Cycloaddition Reaction of Cyclopentenyl Oxyallylic Cations. <i>Organic Letters</i> , 2017 , 19, 4106-4109	6.2	23
174	Facile kinetic profiling of chemical reactions using MISER chromatographic analysis. <i>Tetrahedron</i> , 2017 , 73, 5048-5053	2.4	13
173	Current challenges and future prospects in chromatographic method development for pharmaceutical research. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 95, 36-46	14.6	73
172	Are We Approaching a Speed Limit for the Chromatographic Separation of Enantiomers?. <i>ACS Central Science</i> , 2017 , 3, 823-829	16.8	25
171	Ultrafast chiral separations for high throughput enantiopurity analysis. <i>Chemical Communications</i> , 2017 , 53, 509-512	5.8	100
170	Rapid Determination of Humulones and Isohumulones in Beers Using MISER LC-MS Analysis. <i>Journal of the American Society of Brewing Chemists</i> , 2017 , 75, 333-338	1.9	3
169	Supercritical fluid chromatography for GMP analysis in support of pharmaceutical development and manufacturing activities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 117, 316-24	3.5	46
168	Hydroxypyridyl Imines: Enhancing Chromatographic Separation and Stereochemical Analysis of Chiral Amines via Circular Dichroism. <i>Journal of Organic Chemistry</i> , 2016 , 81, 8199-205	4.2	13
167	Evaluation of C18 monolithic columns for radiochemical purity measurement. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2016 , 59, 391-7	1.9	3
166	Using Electron Paramagnetic Resonance Spectroscopy To Facilitate Problem Solving in Pharmaceutical Research and Development. <i>Journal of Organic Chemistry</i> , 2016 , 81, 6937-44	4.2	9
165	Are fluorine-rich pharmaceuticals lost by partition into fluorous phases?. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 128, 106-110	3.5	1
164	A competitive and reversible deactivation approach to catalysis-based quantitative assays. <i>Nature Communications</i> , 2016 , 7, 10691	17.4	18
163	MISER chiral supercritical fluid chromatography for high throughput analysis of enantiopurity. <i>Journal of Chromatography A</i> , 2016 , 1429, 374-9	4.5	43
162	Antenna Biphenols: Development of Extended Wavelength Chiroptical Reporters. <i>Journal of Organic Chemistry</i> , 2016 , 81, 1185-91	4.2	19

161	Can the analyte-triggered asymmetric autocatalytic Soai reaction serve as a universal analytical tool for measuring enantiopurity and assigning absolute configuration?. <i>Organic and Biomolecular Chemistry</i> , 2016 , 15, 96-101	3.9	9
160	Mining Chromatographic Enantioseparation Data Using Matched Molecular Pair Analysis. <i>Molecules</i> , 2016 , 21,	4.8	7
159	Multiple-injection high-throughput gas chromatography analysis. <i>Journal of Separation Science</i> , 2016 , 39, 2978-85	3.4	5
158	GC-FID method for high-throughput analysis of residual solvents in pharmaceutical drugs and intermediates. <i>Green Chemistry</i> , 2016 , 18, 3732-3739	10	19
157	The emergence of low-cost compact mass spectrometry detectors for chromatographic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 22-34	14.6	32
156	Toward structure-based predictive tools for the selection of chiral stationary phases for the chromatographic separation of enantiomers. <i>Journal of Chromatography A</i> , 2016 , 1467, 206-213	4.5	24
155	Expedited Selection of NMR Chiral Solvating Agents for Determination of Enantiopurity. <i>ACS Central Science</i> , 2016 , 2, 332-40	16.8	42
154	Use of hydrostatic pressure for modulation of protein chemical modification and enzymatic selectivity. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 4448-55	3.9	5
153	Using chromatogram averaging to improve quantitation of minor impurities. <i>Journal of Chromatography A</i> , 2016 , 1465, 205-10	4.5	5
152	Visualizing small differences using subtractive chromatographic analysis. <i>Journal of Chromatography A</i> , 2016 , 1468, 245-249	4.5	2
151	Greening Flash Chromatography. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4905-4912	8.3	15
150	Process Development of CuI/ABNO/NMI-Catalyzed Aerobic Alcohol Oxidation. <i>Organic Process Research and Development</i> , 2015 , 19, 1548-1553	3.9	68
149	Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1000-1009	8.3	30
148	Capture of reactive monophosphine-ligated palladium(0) intermediates by mass spectrometry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14035-8	16.4	46
147	Response to Comment on Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments ACS Sustainable Chemistry and Engineering, 2015 , 3, 1897-1897	8.3	
146	Benzophenone and its analogs bind to human glyoxalase 1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 5349-51	2.9	3
145	Ultrafast separation of fluorinated and desfluorinated pharmaceuticals using highly efficient and selective chiral selectors bonded to superficially porous particles. <i>Journal of Chromatography A</i> , 2015 , 1426, 241-7	4.5	51
144	Experimental Limiting Oxygen Concentrations for Nine Organic Solvents at Temperatures and Pressures Relevant to Aerobic Oxidations in the Pharmaceutical Industry. <i>Organic Process Research and Development</i> , 2015 , 19, 1537-1543	3.9	139

143	Organic chemistry. Nanomole-scale high-throughput chemistry for the synthesis of complex molecules. <i>Science</i> , 2015 , 347, 49-53	33.3	332
142	Pushing the speed limit in enantioselective supercritical fluid chromatography. <i>Journal of Separation Science</i> , 2015 , 38, 2826-32	3.4	59
141	Sustainability Challenges for Organic Chemistry: ORGN Perspective. <i>ACS Symposium Series</i> , 2015 , 67-77	0.4	
140	Search for improved fluorinated stationary phases for separation of fluorine-containing pharmaceuticals from their desfluoro analogs. <i>Journal of Chromatography A</i> , 2015 , 1380, 45-54	4.5	26
139	Separation of achiral analytes using supercritical fluid chromatography with chiral stationary phases. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 67, 74-81	14.6	73
138	Precompetitive Collaboration on Enabling Technologies for the Pharmaceutical Industry. <i>Organic Process Research and Development</i> , 2014 , 18, 481-487	3.9	20
137	Evaluation of non-conventional polar modifiers on immobilized chiral stationary phases for improved resolution of enantiomers by supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014 , 1328, 98-103	4.5	36
136	Use of a Miniature Mass Spectrometer To Support Pharmaceutical Process Chemistry. <i>Organic Process Research and Development</i> , 2014 , 18, 103-108	3.9	22
135	Detection of dehalogenation impurities in organohalogenated pharmaceuticals by UHPLC-DAD-HRESIMS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 92, 1-5	3.5	24
134	Systematic approach to conformational sampling for assigning absolute configuration using vibrational circular dichroism. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 477-94	8.3	37
133	Imine-based chiroptical sensing for analysis of chiral amines: from method design to synthetic application. <i>Chemical Science</i> , 2014 , 5, 2855-2861	9.4	42
132	Estimating optimal time for fast chromatographic separations. <i>Journal of Separation Science</i> , 2014 , 37, 2552-8	3.4	21
131	Evaluation of capsaicin in chili peppers and hot sauces by MISER HPLC-ESIMS. <i>Analytical Methods</i> , 2014 , 6, 857-862	3.2	23
130	Investigation of two-dimensional high performance liquid chromatography approaches for reversed phase resolution of warfarin and hydroxywarfarin isomers. <i>Journal of Chromatography A</i> , 2014 , 1363, 200-6	4.5	18
129	Effect of particle size on the speed and resolution of chiral separations using supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014 , 1363, 250-6	4.5	39
128	Support of academic synthetic chemistry using separation technologies from the pharmaceutical industry. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 2161-6	3.9	35
127	Chromatographic resolution of closely related species in pharmaceutical chemistry: dehalogenation impurities and mixtures of halogen isomers. <i>Analytical Chemistry</i> , 2014 , 86, 805-13	7.8	58
126	Chromatographic separation and assignment of absolute configuration of hydroxywarfarin isomers. <i>Chirality</i> , 2014 , 26, 95-101	2.1	22

125	Investigation of a new core-shell particle column for ion-pair reversed-phase liquid chromatography analysis of oligonucleotides. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 96, 54-7	3.5	8
124	Effect of pressure on the chromatographic separation of enantiomers under reversed-phase conditions. <i>Journal of Chromatography A</i> , 2014 , 1352, 87-92	4.5	5
123	Chromatographic resolution of closely related species: drug metabolites and analogs. <i>Journal of Separation Science</i> , 2014 , 37, 1094-102	3.4	49
122	Evaluation of a compact mass spectrometer for routine support of pharmaceutical chemistry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 94, 139-44	3.5	11
121	Factors influencing the separation of oligonucleotides using reversed-phase/ion-exchange mixed-mode high performance liquid chromatography columns. <i>Journal of Chromatography A</i> , 2013 , 1304, 69-77	4.5	51
120	Practical Aspects of Ultrahigh Performance Liquid Chromatography 2013 , 55-94		2
119	Design, synthesis and evaluation of stationary phases for improved achiral supercritical fluid chromatography separations. <i>Journal of Chromatography A</i> , 2013 , 1302, 163-73	4.5	26
118	Improved chiral SFC screening for analytical method development. <i>Chirality</i> , 2013 , 25, 799-804	2.1	41
117	Extending the range of supercritical fluid chromatography by use of water-rich modifiers. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 4925-9	3.9	49
116	Evaluation of core-shell particle columns for ion-pair reversed-phase liquid chromatography analysis of oligonucleotides. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 72, 25-32	3.5	18
115	Application of Heart-Cutting 2D-LC for the Determination of Peak Purity for a Chiral Pharmaceutical Compound by HPLC. <i>Chromatographia</i> , 2013 , 76, 5-11	2.1	23
114	Chromatographic resolution of closely related species: separation of warfarin and hydroxylated isomers. <i>Journal of Chromatography A</i> , 2013 , 1314, 266-75	4.5	41
113	Evaluation of micro ultra high pressure liquid chromatography for pharmaceutical analysis. <i>Analytical Methods</i> , 2013 , 5, 2178	3.2	3
112	Rapid Analysis of Residual Palladium in Pharmaceutical Development Using a Catalysis-Based Fluorometric Method. <i>Organic Process Research and Development</i> , 2013 , 17, 108-113	3.9	30
111	The design and synthesis of potent, selective benzodiazepine sulfonamide bombesin receptor subtype 3 (BRS-3) agonists with an increased barrier of atropisomerization. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 2845-9	3.4	24
110	A simple parallel gas chromatography column screening system. <i>Chirality</i> , 2012 , 24, 1-4	2.1	4
109	Effect of extra-column volume on practical chromatographic parameters of sub-2- μ m particle-packed columns in ultra-high pressure liquid chromatography. <i>Journal of Separation Science</i> , 2012 , 35, 2018-25	3.4	37
108	Rapid Catalyst Identification for the Synthesis of the Pyrimidinone Core of HIV Integrase Inhibitors. <i>Angewandte Chemie</i> , 2012 , 124, 7018-7021	3.6	3

107	Rapid catalyst identification for the synthesis of the pyrimidinone core of HIV integrase inhibitors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6912-5	16.4	47
106	Design and synthesis of C ₂ -symmetric N-heterocyclic carbene precursors and metal carbenoids. <i>Journal of Organic Chemistry</i> , 2011 , 76, 7341-51	4.2	46
105	Application of ion mobility spectrometry in analytical support of drug substance development. <i>Analytical Methods</i> , 2011 , 3, 1828	3.2	2
104	Screening Binary Systems of Chelating Agents Combined with Carbon or Silica Gel Adsorbents: The Development of a Cost-Effective Method to Remove Palladium from Pharmaceutical Intermediates and APIs. <i>Organic Process Research and Development</i> , 2011 , 15, 1371-1376	3.9	37
103	Discovery of benzodiazepine sulfonamide-based bombesin receptor subtype 3 agonists and their unusual chirality. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 933-7	4.3	27
102	A miniature mass spectrometer for liquid chromatography applications. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3281-8	2.2	37
101	Estimating chromatographic enantioselectivity (α) from gradient enantioselective chromatography data. <i>Chirality</i> , 2011 , 23, 128-32	2.1	9
100	Analytical Method Volume Intensity (AMVI): A green chemistry metric for HPLC methodology in the pharmaceutical industry. <i>Green Chemistry</i> , 2011 , 13, 934	10	50
99	Virtual conferences becoming a reality. <i>Nature Chemistry</i> , 2010 , 2, 148-52	17.6	22
98	History and Developments in Chromatographic Column Technology and Validation to 2001 2010 , 199-267		
97	Removal of Electrophilic Potential Genotoxic Impurities Using Nucleophilic Reactive Resins. <i>Organic Process Research and Development</i> , 2010 , 14, 1021-1026	3.9	32
96	Shortcut to Selectivity: Make Them All and Let Preparative Chromatography Sort it Out. <i>Organic Process Research and Development</i> , 2010 , 14, 905-907	3.9	5
95	Ambient Pressure Desorption Ionization Mass Spectrometry in Support of Preclinical Pharmaceutical Development. <i>Organic Process Research and Development</i> , 2010 , 14, 386-392	3.9	24
94	MISER chromatography (multiple injections in a single experimental run): the chromatogram is the graph. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 1674-1681		72
93	High-throughput metal screening in pharmaceutical samples by ICP-MS with automated flow injection using a modified HPLC configuration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 51, 90-5	3.5	20
92	Use of Enantioselective Synthesis and Preparative Chiral Chromatography to Access a Challenging Enantiopure Pharmaceutical Candidate from a Mixture of Four Stereoisomers 2010 , 417-427		
91	Enantioseparation of benzazoles and benzanilides on polysaccharide-based chiral columns. <i>Chirality</i> , 2010 , 22, 382-8	2.1	8
90	Greening analytical chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 667-680	14.6	216

89	Systematic evaluation of new chiral stationary phases for supercritical fluid chromatography using a standard racemate library. <i>Journal of Chromatography A</i> , 2010 , 1217, 1134-8	4.5	49
88	Evaluation and Implementation of a Commercially Available Mass-Guided SFC Purification Platform in a High Throughput Purification Laboratory in Drug Discovery. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009 , 32, 483-499	1.3	27
87	Microscale chiral HPLC in support of pharmaceutical process research. <i>Chirality</i> , 2009 , 21, 114-8	2.1	44
86	Factors influencing the interconversion of a new class of dibenzodiazepine sulfonamide atropisomers. <i>Chirality</i> , 2009 , 21 Suppl 1, E105-9	2.1	14
85	Online Analysis of Flowing Streams Using Microflow HPLC. <i>Organic Process Research and Development</i> , 2009 , 13, 1022-1025	3.9	24
84	Removal of common organic solvents from aqueous waste streams via supercritical CO ₂ extraction: a potential green approach to sustainable waste management in the pharmaceutical industry. <i>Environmental Science & Technology</i> , 2009 , 43, 2018-21	10.3	7
83	Performance to burn? Re-evaluating the choice of acetonitrile as the platform solvent for analytical HPLC. <i>Green Chemistry</i> , 2009 , 11, 1232	10	61
82	Preparative Chromatography with Extreme Productivity: HPLC Preparation of an Isomerically Pure Drug Intermediate on Multikilogram Scale. <i>Organic Process Research and Development</i> , 2009 , 13, 621-624	3.9	8
81	Looking forward in pharmaceutical process chemistry. <i>Science</i> , 2009 , 325, 701-4	33.3	55
80	Novel orally bioavailable gamma-secretase inhibitors with excellent in vivo activity. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3441-4	8.3	17
79	Microscale HPLC Predicts Preparative Performance at Millionfold Scale. <i>Organic Process Research and Development</i> , 2008 , 12, 674-677	3.9	21
78	Adsorbent Screening Using Microplate Spectroscopy for Selective Removal of Colored Impurities from Active Pharmaceutical Intermediates. <i>Organic Process Research and Development</i> , 2008 , 12, 81-87	3.9	15
77	Rapid Analytical Method Development Using Multiparallel Microfluidic High-Performance Liquid Chromatography in Support of Pharmaceutical Process Research. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2008 , 31, 2296-2304	1.3	10
76	Microscale HPLC enables a new paradigm for commercialization of complex chiral stationary phases. <i>Chirality</i> , 2008 , 20, 815-9	2.1	20
75	Serendipitous discovery of a pH-dependant atropisomer bond rotation: toward a write-protectable chiral molecular switch?. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 875, 118-21	3.2	19
74	Evaluation of Multiplexed CE with UV Detection for Rapid pK _a Estimation of Active Pharmaceutical Ingredients. <i>Chromatographia</i> , 2008 , 68, 219-225	2.1	14
73	Mobile Tool for HPLC Reaction Monitoring. <i>Organic Process Research and Development</i> , 2007 , 11, 870-876	6.9	34
72	Fast methods of enantiopurity determination for the Soai reaction: towards a general enantioenrichment detector?. <i>Chirality</i> , 2007 , 19, 34-43	2.1	21

71	Investigation of the stability of Chiralpak AD chiral stationary phase under various solvent conditions and development of a method to identify stationary phase-derived polymer contamination. <i>Chirality</i> , 2007 , 19, 607-11	2.1	5
70	Solving multicomponent chiral separation challenges using a new SFC tandem column screening tool. <i>Chirality</i> , 2007 , 19, 184-9	2.1	59
69	Strategic use of preparative chiral chromatography for the synthesis of a preclinical pharmaceutical candidate. <i>Chirality</i> , 2007 , 19, 693-700	2.1	32
68	Improving sensitivity in chiral supercritical fluid chromatography for analysis of active pharmaceutical ingredients. <i>Chirality</i> , 2007 , 19, 787-92	2.1	23
67	Multiparallel microfluidic high-performance liquid chromatography for high-throughput normal-phase chiral analysis. <i>Journal of Chromatography A</i> , 2007 , 1145, 149-54	4.5	49
66	Determination of the enantiomeric excess of an M3 antagonist drug substance by chemometric analysis of the IR spectra of different guest-host complexes. <i>Chirality</i> , 2006 , 18, 306-13	2.1	12
65	Multiparallel chiral method development screening using an 8-channel microfluidic HPLC system. <i>Chirality</i> , 2006 , 18, 803-13	2.1	31
64	Observations of Rhodium-Containing Reaction Intermediates using HPLC with ICP-MS and ESI-MS Detection. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 821-825	5.6	21
63	Comparison of Multiparallel Microfluidic HPLC Instruments for High Throughput Analyses in Support of Pharmaceutical Process Research. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2006 , 29, 2185-2200	1.3	34
62	Identification and characterization of isomeric intermediates in a catalyst formation reaction by means of speciation analysis using HPLC-ICPMS and HPLC-ESI-MS. <i>Analytical Chemistry</i> , 2006 , 78, 1282-9	7.8	10
61	Preparation and evaluation of novel stationary phases for improved chromatographic purification of pneumocandin B0. <i>Journal of Chromatography A</i> , 2006 , 1101, 204-13	4.5	2
60	Adsorbent Screening for Metal Impurity Removal in Pharmaceutical Process Research. <i>Organic Process Research and Development</i> , 2005 , 9, 198-205	3.9	209
59	Determination of enantiomeric composition of (-)-(R)-2-tert-butyltetrahydroimidazolidin-4-one by polarimetry, 1H NMR, and chiral SFC. <i>Chirality</i> , 2005 , 17, 212-7	2.1	5
58	Species differential stereoselective oxidation of a methylsulfide metabolite of MK-0767 [(+/-)-5-[(2,4-dioxothiazolidin-5-yl)methyl]-2-methoxy-N-[[4-(trifluoromethyl)phenyl]methyl]benzamide], a peroxisome proliferator-activated receptor dual agonist. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 1661-8	4	12
57	Effective use of preparative chiral HPLC in a preclinical drug synthesis. <i>Chirality</i> , 2004 , 16, 609-13	2.1	25
56	Reactive resin facilitated preparation of an enantiopure fluorobicycloketone. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 168-74	3.9	30
55	Chromatography as an Enabling Technology in Pharmaceutical Process Development: Expedited Multikilogram Preparation of a Candidate HIV Protease Inhibitor. <i>Organic Process Research and Development</i> , 2004 , 8, 186-191	3.9	29
54	Efficient synthesis of NK(1) receptor antagonist aprepitant using a crystallization-induced diastereoselective transformation. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2129-35	16.4	138

- 53 Studies on the racemization of a stereolabile 5-aryl-thiazolidinedione. *Chirality*, **2003**, 15, 143-7 2.1 46
- 52 Is it possible to estimate the enantioselectivity of a chiral catalyst from its racemic mixture?. *Journal of the American Chemical Society*, **2003**, 125, 7490-1 16.4 26
- 51 Selective Removal of a Pharmaceutical Process Impurity Using a Reactive Resin. *Journal of Liquid Chromatography and Related Technologies*, **2003**, 26, 1959-1968 1.3 14
- 50 Microplate evaluation of process adsorbents. *Journal of Separation Science*, **2002**, 25, 847-850 3.4 29
- 49 Liquid chromatographic resolution of racemic amines, amino alcohols and related compounds on a chiral crown ether stationary phase. *Journal of Chromatography A*, **2002**, 959, 75-83 4.5 58
- 48 Asymmetric synthesis of 1,2,3-trisubstituted cyclopentanes and cyclohexanes as key components of substance p antagonists. *Journal of Organic Chemistry*, **2002**, 67, 5993-6000 4.2 27
- 47 Enhanced chromatographic resolution of alcohol enantiomers as phosphate or phosphonate derivatives. *Tetrahedron: Asymmetry*, **2001**, 12, 3063-3066 6
- 46 Formation of highly enantioenriched microenvironments by stochastic sorting of conglomerate crystals: a plausible mechanism for generation of enantioenrichment on the prebiotic earth. *Chirality*, **2001**, 13, 425-7 2.1 34
- 45 New chiral crown ether stationary phase for the liquid chromatographic resolution of alpha-amino acid enantiomers. *Journal of Chromatography A*, **2001**, 910, 359-65 4.5 84
- 44 THE PREPARATION OF CHIRAL SALICYLALDEHYDES BASED ON KAGAN'S ETHER. *Synthetic Communications*, **2001**, 31, 3345-3359 1.7 6
- 43 Use of chiral HPLC-MS for rapid evaluation of the yeast-mediated enantioselective bioreduction of a diaryl ketone. *Journal of Organic Chemistry*, **2001**, 66, 6836-7 4.2 43
- 42 Improved method for rapid evaluation of chiral stationary phase libraries. *Organic Letters*, **2001**, 3, 95-8 6.2 30
- 41 Selection of an optimized adsorbent for preparative chromatographic enantioseparation by microscale screening of a second-generation chiral stationary phase library. *ACS Combinatorial Science*, **1999**, 1, 364-7 31
- 40 MICROSCALE SYNTHESIS AND SCREENING OF COMBINATORIAL LIBRARIES OF NEW CHROMATOGRAPHIC STATIONARY PHASES **1999**, 129-138 4
- 39 Characterization of the enzymatic activity for biphasic competition by guanoxabenz (1-(2,6-dichlorobenzylidene-amino)-3-hydroxyguanidine) at alpha2-adrenoceptors. II. Description of a xanthine-dependent enzymatic activity in spleen cytosol. *Biochemical Pharmacology*, **1998**, 56, 1121-8 6 5
- 38 Alphitol, a phenolic substance from *Alphitonia zizyphoides* which inhibits prostaglandin biosynthesis in vitro. *Phytochemistry*, **1998**, 48, 495-7 4 10
- 37 Molecular Clefs Derived from Kagan's Ether. Synthesis and Solid State Inclusion Complexes of a Chiral Molecular Tweezer **1998**, 109-116 4
- 36 Determination of the Enantiomerization Barrier of Arylnaphthalene Lignans by Cryogenic Subcritical Fluid Chromatography and Computer Simulation. *Journal of Organic Chemistry*, **1997**, 62, 5208-5210 4.2 64

35	The determination of the absolute configuration of a chiral molecular tweezer using CD spectroscopy. <i>Tetrahedron Letters</i> , 1997 , 38, 8655-8658	2	28
34	Retention tuning in the enantioseparation of naproxen esters and free acid. <i>Journal of High Resolution Chromatography</i> , 1997 , 20, 179-180		1
33	Some recent high-performance liquid chromatography separations of the enantiomers of pharmaceuticals and other compounds using the Whelk-O 1 chiral stationary phase. <i>Journal of Chromatography A</i> , 1997 , 758, 93-98	4.5	76
32	Extended length heterobifunctional coupling agents for protein conjugations. <i>Bioconjugate Chemistry</i> , 1996 , 7, 88-95	6.3	51
31	Chemoselective Synthesis and Resolution of Chiral [1,9]Methanofullerene[70] Derivatives. <i>Journal of Organic Chemistry</i> , 1996 , 61, 5198-5199	4.2	31
30	Chiral non-racemic C60 derivatives: A proposed sector rule for fullerene absolute configuration. <i>Tetrahedron</i> , 1996 , 52, 5131-5142	2.4	43
29	Some thoughts on the coupling of dissimilar chiral columns or the mixing of chiral stationary phases for the separation of enantiomers. <i>Journal of Chromatography A</i> , 1996 , 731, 322-326	4.5	36
28	Imprintable brush-type chiral stationary phase. <i>Journal of Chromatography A</i> , 1995 , 689, 189-193	4.5	14
27	Improved chiral stationary phase for β -blocker enantioseparations. <i>Journal of Chromatography A</i> , 1995 , 690, 218-225	4.5	17
26	Evolution of chiral stationary phase design in the Pirkle laboratories. <i>Journal of Chromatography A</i> , 1994 , 666, 3-26	4.5	236
25	Use of simultaneous face to face and face to edge π -interactions to facilitate chiral recognition. <i>Tetrahedron: Asymmetry</i> , 1994 , 5, 777-780		96
24	Assignment of absolute configuration to an improved enantioselective naproxen selector. <i>Chirality</i> , 1994 , 6, 615-622	2.1	21
23	Chromatographic and ^1H NMR support for a proposed chiral recognition model. <i>Journal of Chromatography A</i> , 1994 , 683, 347-353	4.5	67
22	Doubly tethered tertiary amide selectors: Modified version of Doyle et al.'s naproxen chiral stationary phase. <i>Journal of Chromatography A</i> , 1994 , 659, 69-74	4.5	28
21	Resolution of enantiomers of cis- and trans-fused C60-enone [2+2] photoadducts. <i>Journal of Organic Chemistry</i> , 1993 , 58, 6548-6549	4.2	40
20	An improved method for the direct chromatographic resolution of abscisic acid enantiomers. <i>Chirality</i> , 1993 , 5, 569-572	2.1	10
19	Comments on a report of the separation of the enantiomers of β -donor analytes on β -donor chiral stationary phases. <i>Journal of Chromatography A</i> , 1993 , 639, 329-332	4.5	9
18	Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides. <i>Journal of Chromatography A</i> , 1993 , 648, 101-109	4.5	50

17	An Improved Chiral Stationary Phase for the Chromatographic Separation of Underivatized Naproxen Enantiomers. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1992 , 15, 1947-1955		138
16	Design, synthesis, and evaluation of an improved enantioselective naproxen selector. <i>Journal of Organic Chemistry</i> , 1992 , 57, 3854-3860	4.2	221
15	Chirality. <i>Analytical Proceedings</i> , 1992 , 29, 225-234		15
14	Synthesis of 2-hydroxymethyl-1-oxaquinolizidine. <i>Tetrahedron</i> , 1992 , 48, 6325-6334	2.4	25
13	Effect of superfluous remote polar functionality on chiral recognition. <i>Journal of Chromatography A</i> , 1992 , 589, 45-51	4.5	53
12	Progress in the design of selectors for buckminsterfullerene. <i>Journal of Chromatography A</i> , 1992 , 609, 89-101	4.5	108
11	Concerning the role of face-to-edge π -interactions in chiral recognition. <i>Journal of Chromatography A</i> , 1992 , 607, 126-130	4.5	21
10	An Investigation into the Role of Solvation in a Well Characterized Chiral Recognition System. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1991 , 14, 2027-2042		17
9	Chiral catalysis in the alkylation of aldehydes with diethyl zinc. <i>Tetrahedron: Asymmetry</i> , 1991 , 2, 1123-1126		19
8	The measurement of enantiopurity using phosphorus-NMR. <i>Tetrahedron: Asymmetry</i> , 1991 , 2, 1127-1132		11
7	Chromatographic Separation of Underivatized Naproxen Enantiomers 1991 , 14, 3387-3396		52
6	A Convenient Void Volume Marker for Several Chiral HPLC Columns. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1991 , 14, 1-8		59
5	An unusual effect of temperature on the chromatographic behavior of buckminsterfullerene. <i>Journal of Organic Chemistry</i> , 1991 , 56, 6973-6974	4.2	44
4	Chromatographic separation of the enantiomers of N-acylated heterocyclic amines. <i>Journal of Organic Chemistry</i> , 1984 , 49, 2504-2506	4.2	35
3	Chromatographic separation of the enantiomers of acylated amines on chiral stationary phases. <i>Journal of Organic Chemistry</i> , 1984 , 49, 138-140	4.2	90
2	A chiral recognition model for the chromatographic resolution of N-acylated 1-aryl-1-aminoalkanes. <i>Journal of Organic Chemistry</i> , 1983 , 48, 5022-5026	4.2	93
1	Chiral Chromatography in Support of Pharmaceutical Process Research 1-18		6