

Christopher J Welch

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196
papers

6,956
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46
h-index

71
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205
ext. papers

7,500
ext. citations

5.3
avg, IF

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L-index

#	Paper	IF	Citations
196	Organic chemistry. Nanomole-scale high-throughput chemistry for the synthesis of complex molecules. <i>Science</i> , 2015 , 347, 49-53	33.3	332
195	Evolution of chiral stationary phase design in the Pirkle laboratories. <i>Journal of Chromatography A</i> , 1994 , 666, 3-26	4.5	236
194	Design, synthesis, and evaluation of an improved enantioselective naproxen selector. <i>Journal of Organic Chemistry</i> , 1992 , 57, 3854-3860	4.2	221
193	Greening analytical chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 667-680	14.6	216
192	Adsorbent Screening for Metal Impurity Removal in Pharmaceutical Process Research. <i>Organic Process Research and Development</i> , 2005 , 9, 198-205	3.9	209
191	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
190	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
189	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
188	Progress in the design of selectors for buckminsterfullerene. <i>Journal of Chromatography A</i> , 1992 , 609, 89-101	4.5	108
187	Ultrafast chiral separations for high throughput enantiopurity analysis. <i>Chemical Communications</i> , 2017 , 53, 509-512	5.8	100
186	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
185	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
184	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
183	Ultrafast Chiral Chromatography as the Second Dimension in Two-Dimensional Liquid Chromatography Experiments. <i>Analytical Chemistry</i> , 2017 , 89, 3545-3553	7.8	84
182	New chiral crown ether stationary phase for the liquid chromatographic resolution of alpha-amino acid enantiomers. <i>Journal of Chromatography A</i> , 2001 , 910, 359-65	4.5	84
181	Mapping the dark space of chemical reactions with extended nanomole synthesis and MALDI-TOF MS. <i>Science</i> , 2018 , 361,	33.3	78
180	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

179	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
178	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
177	MISER chromatography (multiple injections in a single experimental run): the chromatogram is the graph. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 1674-1681		72
176	Process Development of CuI/ABNO/NMI-Catalyzed Aerobic Alcohol Oxidation. <i>Organic Process Research and Development</i> , 2015 , 19, 1548-1553	3.9	68
175	Chromatographic and 1H NMR support for a proposed chiral recognition model. <i>Journal of Chromatography A</i> , 1994 , 683, 347-353	4.5	67
174	Determination of the Enantiomerization Barrier of Arylnaphthalene Lignans by Cryogenic Subcritical Fluid Chromatography and Computer Simulation. <i>Journal of Organic Chemistry</i> , 1997 , 62, 5208-5210	4.2	64
173	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
172	Pushing the speed limit in enantioselective supercritical fluid chromatography. <i>Journal of Separation Science</i> , 2015 , 38, 2826-32	3.4	59
171	Solving multicomponent chiral separation challenges using a new SFC tandem column screening tool. <i>Chirality</i> , 2007 , 19, 184-9	2.1	59
170	A Convenient Void Volume Marker for Several Chiral HPLC Columns. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1991 , 14, 1-8		59
169	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
168	Liquid chromatographic resolution of racemic amines, amino alcohols and related compounds on a chiral crown ether stationary phase. <i>Journal of Chromatography A</i> , 2002 , 959, 75-83	4.5	58
167	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
166	Looking forward in pharmaceutical process chemistry. <i>Science</i> , 2009 , 325, 701-4	33.3	55
165	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
164	Effect of superfluous remote polar functionality on chiral recognition. <i>Journal of Chromatography A</i> , 1992 , 589, 45-51	4.5	53
163	Chromatographic Separation of Underivatized Naproxen Enantiomers 1991 , 14, 3387-3396		52
162	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

161	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
160	Extended length heterobifunctional coupling agents for protein conjugations. <i>Bioconjugate Chemistry</i> , 1996 , 7, 88-95	6.3	51
159	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
158	Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides. <i>Journal of Chromatography A</i> , 1993 , 648, 101-109	4.5	50
157	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
156	Chromatographic resolution of closely related species: drug metabolites and analogs. <i>Journal of Separation Science</i> , 2014 , 37, 1094-102	3.4	49
155	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
154	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
153	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
152	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
151	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
150	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
149	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
148	Studies on the racemization of a stereolabile 5-aryl-thiazolidinedione. <i>Chirality</i> , 2003 , 15, 143-7	2.1	46
147	Microscale chiral HPLC in support of pharmaceutical process research. <i>Chirality</i> , 2009 , 21, 114-8	2.1	44
146	An unusual effect of temperature on the chromatographic behavior of buckminsterfullerene. <i>Journal of Organic Chemistry</i> , 1991 , 56, 6973-6974	4.2	44
145	MISER chiral supercritical fluid chromatography for high throughput analysis of enantiopurity. <i>Journal of Chromatography A</i> , 2016 , 1429, 374-9	4.5	43
144	Use of chiral HPLC-MS for rapid evaluation of the yeast-mediated enantioselective bioreduction of a diaryl ketone. <i>Journal of Organic Chemistry</i> , 2001 , 66, 6836-7	4.2	43

143	Chiral non-racemic C60 derivatives: A proposed sector rule for fullerene absolute configuration. <i>Tetrahedron</i> , 1996 , 52, 5131-5142	2.4	43
142	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
141	Expedited Selection of NMR Chiral Solvating Agents for Determination of Enantiopurity. <i>ACS Central Science</i> , 2016 , 2, 332-40	16.8	42
140	Improved chiral SFC screening for analytical method development. <i>Chirality</i> , 2013 , 25, 799-804	2.1	41
139	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
138	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
137	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
136	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
135	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
134	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
133	A miniature mass spectrometer for liquid chromatography applications. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3281-8	2.2	37
132	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
131	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
130	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
129	Chromatographic separation of the enantiomers of N-acylated heterocyclic amines. <i>Journal of Organic Chemistry</i> , 1984 , 49, 2504-2506	4.2	35
128	Overcoming "speed limits" in high throughput chromatographic analysis. <i>Journal of Chromatography A</i> , 2017 , 1499, 211-216	4.5	34
127	Mobile Tool for HPLC Reaction Monitoring. <i>Organic Process Research and Development</i> , 2007 , 11, 870-876	9.9	34
126	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

125	Formation of highly enantioenriched microenvironments by stochastic sorting of conglomerate crystals: a plausible mechanism for generation of enantioenrichment on the prebiotic earth. <i>Chirality</i> , 2001 , 13, 425-7	2.1	34
124	High throughput analysis enables high throughput experimentation in pharmaceutical process research. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1895-1911	4.9	33
123	Removal of Electrophilic Potential Genotoxic Impurities Using Nucleophilic Reactive Resins. <i>Organic Process Research and Development</i> , 2010 , 14, 1021-1026	3.9	32
122	Strategic use of preparative chiral chromatography for the synthesis of a preclinical pharmaceutical candidate. <i>Chirality</i> , 2007 , 19, 693-700	2.1	32
121	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
120	Multiparallel chiral method development screening using an 8-channel microfluidic HPLC system. <i>Chirality</i> , 2006 , 18, 803-13	2.1	31
119	Selection of an optimized adsorbent for preparative chromatographic enantioseparation by microscale screening of a second-generation chiral stationary phase library. <i>ACS Combinatorial Science</i> , 1999 , 1, 364-7		31
118	Chemoselective Synthesis and Resolution of Chiral [1,9]Methanofullerene[70] Derivatives. <i>Journal of Organic Chemistry</i> , 1996 , 61, 5198-5199	4.2	31
117	Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1000-1009	8.3	30
116	Accelerated Forced Degradation of Pharmaceuticals in Levitated Microdroplet Reactors. <i>Chemistry - A European Journal</i> , 2018 , 24, 7349-7353	4.8	30
115	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
114	Reactive resin facilitated preparation of an enantiopure fluorobicycloketone. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 168-74	3.9	30
113	Improved method for rapid evaluation of chiral stationary phase libraries. <i>Organic Letters</i> , 2001 , 3, 95-8	6.2	30
112	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
111	Microplate evaluation of process adsorbents. <i>Journal of Separation Science</i> , 2002 , 25, 847-850	3.4	29
110	The determination of the absolute configuration of a chiral molecular tweezer using CD spectroscopy. <i>Tetrahedron Letters</i> , 1997 , 38, 8655-8658	2	28
109	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
108	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

107	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
106	Asymmetric synthesis of 1,2,3-trisubstituted cyclopentanes and cyclohexanes as key components of substance p antagonists. <i>Journal of Organic Chemistry</i> , 2002 , 67, 5993-6000	4.2	27
105	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
104	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
103	Is it possible to estimate the enantioselectivity of a chiral catalyst from its racemic mixture?. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7490-1	16.4	26
102	Are We Approaching a Speed Limit for the Chromatographic Separation of Enantiomers?. <i>ACS Central Science</i> , 2017 , 3, 823-829	16.8	25
101	Effective use of preparative chiral HPLC in a preclinical drug synthesis. <i>Chirality</i> , 2004 , 16, 609-13	2.1	25
100	Synthesis of 2-hydroxymethyl-1-oxaquinolizidine. <i>Tetrahedron</i> , 1992 , 48, 6325-6334	2.4	25
99	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
98	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
97	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
96	Online Analysis of Flowing Streams Using Microflow HPLC. <i>Organic Process Research and Development</i> , 2009 , 13, 1022-1025	3.9	24
95	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
94	Evaluation of capsaicin in chili peppers and hot sauces by MISER HPLC-ESIMS. <i>Analytical Methods</i> , 2014 , 6, 857-862	3.2	23
93	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
92	An Asymmetric, Catalytic (4 + 3) Cycloaddition Reaction of Cyclopentenyl Oxyallylic Cations. <i>Organic Letters</i> , 2017 , 19, 4106-4109	6.2	23
91	Improving sensitivity in chiral supercritical fluid chromatography for analysis of active pharmaceutical ingredients. <i>Chirality</i> , 2007 , 19, 787-92	2.1	23
90	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

89	Chromatographic separation and assignment of absolute configuration of hydroxywarfarin isomers. <i>Chirality</i> , 2014 , 26, 95-101	2.1	22
88	Virtual conferences becoming a reality. <i>Nature Chemistry</i> , 2010 , 2, 148-52	17.6	22
87	Estimating optimal time for fast chromatographic separations. <i>Journal of Separation Science</i> , 2014 , 37, 2552-8	3.4	21
86	Microscale HPLC Predicts Preparative Performance at Millionfold Scale. <i>Organic Process Research and Development</i> , 2008 , 12, 674-677	3.9	21
85	Fast methods of enantiopurity determination for the Soai reaction: towards a general enantioenrichment detector?. <i>Chirality</i> , 2007 , 19, 34-43	2.1	21
84	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
83	Assignment of absolute configuration to an improved enantioselective naproxen selector. <i>Chirality</i> , 1994 , 6, 615-622	2.1	21
82	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
81	Precompetitive Collaboration on Enabling Technologies for the Pharmaceutical Industry. <i>Organic Process Research and Development</i> , 2014 , 18, 481-487	3.9	20
80	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
79	Microscale HPLC enables a new paradigm for commercialization of complex chiral stationary phases. <i>Chirality</i> , 2008 , 20, 815-9	2.1	20
78	Antenna Biphenols: Development of Extended Wavelength Chiroptical Reporters. <i>Journal of Organic Chemistry</i> , 2016 , 81, 1185-91	4.2	19
77	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
76	Chiral catalysis in the alkylation of aldehydes with diethyl zinc. <i>Tetrahedron: Asymmetry</i> , 1991 , 2, 1123-1126		19
75	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
74	A competitive and reversible deactivation approach to catalysis-based quantitative assays. <i>Nature Communications</i> , 2016 , 7, 10691	17.4	18
73	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
72	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

71	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
70	Novel orally bioavailable gamma-secretase inhibitors with excellent in vivo activity. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3441-4	8.3	17
69	Improved chiral stationary phase for E-blocker enantioseparations. <i>Journal of Chromatography A</i> , 1995 , 690, 218-225	4.5	17
68	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
67	Optical Chirality Sensing with a Stereodynamic Aluminum Biphenolate Probe. <i>Journal of Organic Chemistry</i> , 2019 , 84, 4639-4645	4.2	15
66	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
65	Chirality. <i>Analytical Proceedings</i> , 1992 , 29, 225-234		15
64	Greening Flash Chromatography. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4905-4912	8.3	15
63	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
62	Factors influencing the interconversion of a new class of dibenzodiazepine sulfonamide atropisomers. <i>Chirality</i> , 2009 , 21 Suppl 1, E105-9	2.1	14
61	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
60	Selective Removal of a Pharmaceutical Process Impurity Using a Reactive Resin. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2003 , 26, 1959-1968	1.3	14
59	Imprintable brush-type chiral stationary phase. <i>Journal of Chromatography A</i> , 1995 , 689, 189-193	4.5	14
58	Online sensing of palladium in flowing streams. <i>Chemical Communications</i> , 2017 , 53, 720-723	5.8	13
57	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
56	Facile kinetic profiling of chemical reactions using MISER chromatographic analysis. <i>Tetrahedron</i> , 2017 , 73, 5048-5053	2.4	13
55	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
54	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

53	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], ^{1,4} a peroxisome proliferator-activated receptor dual agonist. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 1061-8		12
52	High-Throughput Determination of Enantiopurity by Microplate Circular Dichroism. <i>Journal of Organic Chemistry</i> , 2020 , 85, 10858-10864	4.2	12
51	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
50	The measurement of enantiopurity using phosphorus-NMR. <i>Tetrahedron: Asymmetry</i> , 1991 , 2, 1127-1132		11
49	Alphitol, a phenolic substance from <i>Alphitonia zizyphoides</i> which inhibits prostaglandin biosynthesis in vitro. <i>Phytochemistry</i> , 1998 , 48, 495-7	4	10
48	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
47	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
46	An improved method for the direct chromatographic resolution of abscisic acid enantiomers. <i>Chirality</i> , 1993 , 5, 569-572	2.1	10
45	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
44	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
43	Estimating chromatographic enantioselectivity (α) from gradient enantioselective chromatography data. <i>Chirality</i> , 2011 , 23, 128-32	2.1	9
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