Kelly Zhang

List of Publications by Year
in descending order

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42 papers	1,503 citations	331538 21 h-index	315616 38 g-index
42 all docs	42 docs citations	42 times ranked	1341 citing authors

#	Article	IF	Citations
1	Analytical characterization of liposomes and other lipid nanoparticles for drug delivery. Journal of Pharmaceutical and Biomedical Analysis, 2021, 192, 113642.	1.4	165
2	Mixed-mode chromatography in pharmaceutical and biopharmaceutical applications. Journal of Pharmaceutical and Biomedical Analysis, 2016, 128, 73-88.	1.4	158
3	Characterization and Stability Study of Polysorbate 20 in Therapeutic Monoclonal Antibody Formulation by Multidimensional Ultrahigh-Performance Liquid Chromatographyâ€“Charged Aerosol Detectionâ€“Mass Spectrometry. Analytical Chemistry, 2014, 86, 5150-5157.	3.2	106
4	Simultaneous determination of positive and negative pharmaceutical counterions using mixed-mode chromatography coupled with charged aerosol detector. Journal of Chromatography A, 2010, 1217, 5776-5784.	1.8	86
5	Characterization of therapeutic antibodies and related products by two-dimensional liquid chromatography coupled with UV absorbance and mass spectrometric detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 51-60.	1.2	69
6	Characterization of therapeutic oligonucleotides by liquid chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2020, 182, 113105.	1.4	66
7	Evaluation of detection sensitivity in comprehensive two-dimensional liquid chromatography separations of an active pharmaceutical ingredient and its degradants. Analytical and Bioanalytical Chemistry, 2015, 407, 265-277.	1.9	65
8	Analysis of pharmaceutical impurities using multi-heartcutting 2D LC coupled with UV-charged aerosol MS detection. Journal of Separation Science, 2013, 36, 2986-2992.	1.3	63
9	A size exclusion-reversed phase two dimensional-liquid chromatography methodology for stability and small molecule related species in antibody drug conjugates. Journal of Chromatography A, 2015, 1393, 81-88.	1.8	60
10	Ultra-high-pressure liquid chromatography (UHPLC) in method development. TrAC - Trends in Analytical Chemistry, 2014, 63, 21-30.	5.8	57
11	Antibody-drug conjugate characterization by chromatographic and electrophoretic techniques. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 39-50.	1.2	55
12	Multi-dimensional LC-MS: the next generation characterization of antibody-based therapeutics by unified online bottom-up, middle-up and intact approaches. Analyst, The, 2021, 146, 747-769.	1.7	48
13	First inter-laboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities. Journal of Pharmaceutical and Biomedical Analysis, 2018, 161, 414-424.	1.4	47
14	A simple and sensitive method to analyze genotoxic impurity hydrazine in pharmaceutical materials. Journal of Pharmaceutical and Biomedical Analysis, 2016, 126, 141-147.	1.4	42
15	Seeking universal detectors for analytical characterizations. Journal of Pharmaceutical and Biomedical Analysis, 2019, 162, 192-204.	1.4	39
16	Characterization of Antisense Oligonucleotide Impurities by Ion-Pairing Reversed-Phase and Anion Exchange Chromatography Coupled to Hydrophilic Interaction Liquid Chromatography/Mass Spectrometry Using a Versatile Two-Dimensional Liquid Chromatography Setup. Analytical Chemistry, 2020, 92, 5944-5951.	3.2	38
17	Full Sequencing of CRISPR/Cas9 Single Guide RNA (sgRNA) via Parallel Ribonuclease Digestions and Hydrophilic Interaction Liquid Chromatographyâ€“High-Resolution Mass Spectrometry Analysis. Analytical Chemistry, 2021, 93, 14792-14801.	3.2	34
18	Reactive impurities in large and small molecule pharmaceutical excipients â€“ A review. TrAC - Trends in Analytical Chemistry, 2018, 101, 34-42.	5.8	29

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19	Automated high-throughput preparation and characterization of oligonucleotide-loaded lipid nanoparticles. International Journal of Pharmaceutics, 2021, 599, 120392.	2.6	29
20	Reprint of â€œMixed-mode chromatography in pharmaceutical and biopharmaceutical applicationsâ€. Journal of Pharmaceutical and Biomedical Analysis, 2016, 130, 19-34.	1.4	26
21	Validation of a two-dimensional liquid chromatography method for quality control testing of pharmaceutical materials. Journal of Chromatography A, 2017, 1492, 89-97.	1.8	25
22	Method screening strategies of stereoisomers of compounds with multiple chiral centers and a single chiral center. Journal of Chromatography A, 2020, 1624, 461244.	1.8	19
23	Sensitive and direct determination of lithium by mixed-mode chromatography and charged aerosol detection. Journal of Chromatography A, 2015, 1408, 87-92.	1.8	17
24	Fast chiral and achiral profiling of compounds with multiple chiral centers by a versatile two-dimensional multicolumn liquid chromatography (LCâ€“mLC) approach. Journal of Chromatography A, 2020, 1620, 460987.	1.8	15
25	On-line Sequencing of CRISPR Guide RNAs and Their Impurities via the Use of Immobilized Ribonuclease Cartridges Attached to a 2D/3D-LCâ€“MS System. Analytical Chemistry, 2022, 94, 1169-1177.	3.2	15
26	The impact of low adsorption surfaces for the analysis of DNA and RNA oligonucleotides. Journal of Chromatography A, 2022, 1677, 463324.	1.8	15
27	Interlaboratory study of a supercritical fluid chromatography method for the determination of pharmaceutical impurities: Evaluation of multi-systems reproducibility. Journal of Pharmaceutical and Biomedical Analysis, 2021, 203, 114206.	1.4	14
28	Development of an ion pairing reversed-phase liquid chromatography-mass spectrometry method for characterization of clustered regularly interspaced short palindromic repeats guide ribonucleic acid. Journal of Chromatography A, 2022, 1665, 462839.	1.8	12
29	Degradation of a pharmaceutical in HPLC grade methanol containing trace level formaldehyde. Pharmaceutical Development and Technology, 2013, 18, 877-882.	1.1	10
30	Analysis of therapeutic nucleic acids by capillary electrophoresis. Journal of Pharmaceutical and Biomedical Analysis, 2022, 219, 114928.	1.4	10
31	Limiting degradation of reactive antibody drug conjugate intermediates in HPLC method development. Journal of Pharmaceutical and Biomedical Analysis, 2014, 92, 114-118.	1.4	9
32	Compatibility study of a parenteral microdose polyethylene glycol formulation in medical devices and identification of degradation impurity by 2D-LC/MS. Journal of Pharmaceutical and Biomedical Analysis, 2017, 137, 182-188.	1.4	9
33	Analytical techniques for characterizing diastereomers of phosphorothioated oligonucleotides. Journal of Chromatography A, 2022, 1678, 463349.	1.8	9
34	Multi-arm PEG-maleimide conjugation intermediate characterization and hydrolysis study by a selective HPLC method. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 452-459.	1.4	8
35	Analysis of pharmaceutical drug oligomers by selective comprehensive two-dimensional liquid chromatography-high resolution mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2022, 208, 114466.	1.4	8
36	Achiralâ€“Chiral Two-Dimensional Liquid Chromatography Platform to Support Automated High-Throughput Experimentation in the Field of Drug Development. Analytical Chemistry, 2020, 92, 15187-15193.	3.2	7

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37	Characterization of High Molecular Weight Multi-Arm Functionalized PEGâ€“Maleimide for Protein Conjugation by Charge-Reduction Mass Spectrometry Coupled to Two-Dimensional Liquid Chromatography. Analytical Chemistry, 2020, 92, 8584-8590.	3.2	7
38	Evidence of free radical generation from the interaction of polyethylene glycol with PVC medical tubing. Journal of Pharmaceutical and Biomedical Analysis, 2021, 197, 113955.	1.4	4
39	Spectroscopy-Based Local Modeling Method for High-Throughput Quantification of Nucleic Acid Loading in Lipid Nanoparticles. Analytical Chemistry, 2022, 94, 9081-9090.	3.2	3
40	Practical strategies when using a stable isotope labeled microtracer for absolute bioavailability assessment: A case study of a high oral dose clinical candidate GDC-0810. Journal of Pharmaceutical and Biomedical Analysis, 2018, 154, 116-122.	1.4	2
41	Recent Advances in Two-Dimensional Liquid Chromatography for the Characterization of Monoclonal Antibodies and Other Therapeutic Proteins. , 2019, , 29-70.		2
42	A simple generic method for analyzing water sensitive pinacol boronate compounds by hydrophilic interaction liquid chromatography. Journal of Chromatography Open, 2022, 2, 100036.	0.8	1