

Kelly Zhang

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

38
papers

957
citations

17
h-index

30
g-index

42
ext. papers

1,198
ext. citations

5
avg, IF

5.08
L-index

#	Paper	IF	Citations
38	Development of an ion pairing reversed-phase liquid chromatography-mass spectrometry method for characterization of clustered regularly interspaced short palindromic repeats guide ribonucleic acid.. <i>Journal of Chromatography A</i> , 2022 , 1665, 462839	4.5	2
37	A simple generic method for analyzing water sensitive pinacol boronate compounds by hydrophilic interaction liquid chromatography. <i>Journal of Chromatography Open</i> , 2022 , 2, 100036		
36	Analysis of pharmaceutical drug oligomers by selective comprehensive two-dimensional liquid chromatography-high resolution mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022 , 208, 114466	3.5	1
35	On-line Sequencing of CRISPR Guide RNAs and Their Impurities the Use of Immobilized Ribonuclease Cartridges Attached to a 2D/3D-LC-MS System.. <i>Analytical Chemistry</i> , 2021 ,	7.8	5
34	Full Sequencing of CRISPR/Cas9 Single Guide RNA (sgRNA) via Parallel Ribonuclease Digestions and Hydrophilic Interaction Liquid Chromatography-High-Resolution Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2021 , 93, 14792-14801	7.8	8
33	Evidence of free radical generation from the interaction of polyethylene glycol with PVC medical tubing. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 197, 113955	3.5	3
32	Automated high-throughput preparation and characterization of oligonucleotide-loaded lipid nanoparticles. <i>International Journal of Pharmaceutics</i> , 2021 , 599, 120392	6.5	3
31	Analytical characterization of liposomes and other lipid nanoparticles for drug delivery. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 192, 113642	3.5	46
30	Multi-dimensional LC-MS: the next generation characterization of antibody-based therapeutics by unified online bottom-up, middle-up and intact approaches. <i>Analyst, The</i> , 2021 , 146, 747-769	5	29
29	Interlaboratory study of a supercritical fluid chromatography method for the determination of pharmaceutical impurities: Evaluation of multi-systems reproducibility. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 203, 114206	3.5	10
28	Achiral-Chiral Two-Dimensional Liquid Chromatography Platform to Support Automated High-Throughput Experimentation in the Field of Drug Development. <i>Analytical Chemistry</i> , 2020 , 92, 15187-15193	7.8	2
27	Method screening strategies of stereoisomers of compounds with multiple chiral centers and a single chiral center. <i>Journal of Chromatography A</i> , 2020 , 1624, 461244	4.5	10
26	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. <i>Analytical Chemistry</i> , 2020 , 92, 5014-5024	7.8	18
25	Fast chiral and achiral profiling of compounds with multiple chiral centers by a versatile two-dimensional multicolumn liquid chromatography (LC-mLC) approach. <i>Journal of Chromatography A</i> , 2020 , 1620, 460987	4.5	8
24	Characterization of therapeutic oligonucleotides by liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 182, 113105	3.5	31
23	Characterization of High Molecular Weight Multi-Arm Functionalized PEG-Maleimide for Protein Conjugation by Charge-Reduction Mass Spectrometry Coupled to Two-Dimensional Liquid Chromatography. <i>Analytical Chemistry</i> , 2020 , 92, 8584-8590	7.8	3
22	Recent Advances in Two-Dimensional Liquid Chromatography for the Characterization of Monoclonal Antibodies and Other Therapeutic Proteins 2019 , 29-70		2

21	Seeking universal detectors for analytical characterizations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 162, 192-204	3.5	21
20	Multi-arm PEG-maleimide conjugation intermediate characterization and hydrolysis study by a selective HPLC method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 164, 452-459	3.5	5
19	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 154, 116-122	3.5	1
18	Reactive impurities in large and small molecule pharmaceutical excipients [A review]. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 101, 34-42	14.6	12
17	First inter-laboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 161, 414-424	3.5	43
16	Compatibility study of a parenteral microdose polyethylene glycol formulation in medical devices and identification of degradation impurity by 2D-LC/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 137, 182-188	3.5	7
15	Validation of a two-dimensional liquid chromatography method for quality control testing of pharmaceutical materials. <i>Journal of Chromatography A</i> , 2017 , 1492, 89-97	4.5	18
14	Antibody-drug conjugate characterization by chromatographic and electrophoretic techniques. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1032, 39-50	3.2	46
13	A simple and sensitive method to analyze genotoxic impurity hydrazine in pharmaceutical materials. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 126, 141-7	3.5	35
12	Mixed-mode chromatography in pharmaceutical and biopharmaceutical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 128, 73-88	3.5	118
11	Characterization of therapeutic antibodies and related products by two-dimensional liquid chromatography coupled with UV absorbance and mass spectrometric detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1032, 51-60	3.2	53
10	Reprint of "Mixed-mode chromatography in pharmaceutical and biopharmaceutical applications". <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 130, 19-34	3.5	15
9	Sensitive and direct determination of lithium by mixed-mode chromatography and charged aerosol detection. <i>Journal of Chromatography A</i> , 2015 , 1408, 87-92	4.5	16
8	A size exclusion-reversed phase two dimensional-liquid chromatography methodology for stability and small molecule related species in antibody drug conjugates. <i>Journal of Chromatography A</i> , 2015 , 1393, 81-8	4.5	54
7	Evaluation of detection sensitivity in comprehensive two-dimensional liquid chromatography separations of an active pharmaceutical ingredient and its degradants. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 265-77	4.4	55
6	Limiting degradation of reactive antibody drug conjugate intermediates in HPLC method development. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 92, 114-8	3.5	8
5	Ultra-high-pressure liquid chromatography (UHPLC) in method development. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 63, 21-30	14.6	45
4	Characterization and stability study of polysorbate 20 in therapeutic monoclonal antibody formulation by multidimensional ultrahigh-performance liquid chromatography-charged aerosol detection-mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 5150-7	7.8	84

3	Analysis of pharmaceutical impurities using multi-heartcutting 2D LC coupled with UV-charged aerosol MS detection. <i>Journal of Separation Science</i> , 2013 , 36, 2986-92	3-4	51
2	Degradation of a pharmaceutical in HPLC grade methanol containing trace level formaldehyde. <i>Pharmaceutical Development and Technology</i> , 2013 , 18, 877-82	3-4	9
1	Simultaneous determination of positive and negative pharmaceutical counterions using mixed-mode chromatography coupled with charged aerosol detector. <i>Journal of Chromatography A</i> , 2010 , 1217, 5776-84	4-5	78