

# Kelly Zhang

## List of Publications by Citations

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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	Mixed-mode chromatography in pharmaceutical and biopharmaceutical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 128, 73-88	3.5	118
37	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> , <b>2014</b> , 86, 5150-7	7.8	84
36	Simultaneous determination of positive and negative pharmaceutical counterions using mixed-mode chromatography coupled with charged aerosol detector. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 5776-84	4.5	78
35	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> , <b>2015</b> , 407, 265-77	4.4	55
34	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> , <b>2015</b> , 1393, 81-8	4.5	54
33	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> , <b>2016</b> , 1032, 51-60	3.2	53
32	Analysis of pharmaceutical impurities using multi-heartcutting 2D LC coupled with UV-charged aerosol MS detection. <i>Journal of Separation Science</i> , <b>2013</b> , 36, 2986-92	3.4	51
31	Antibody-drug conjugate characterization by chromatographic and electrophoretic techniques. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2016</b> , 1032, 39-50	3.2	46
30	Analytical characterization of liposomes and other lipid nanoparticles for drug delivery. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 192, 113642	3.5	46
29	Ultra-high-pressure liquid chromatography (UHPLC) in method development. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2014</b> , 63, 21-30	14.6	45
28	First inter-laboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 161, 414-424	3.5	43
27	A simple and sensitive method to analyze genotoxic impurity hydrazine in pharmaceutical materials. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 126, 141-7	3.5	35
26	Characterization of therapeutic oligonucleotides by liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 182, 113105	3.5	31
25	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> , <b>2021</b> , 146, 747-769	5	29
24	Seeking universal detectors for analytical characterizations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2019</b> , 162, 192-204	3.5	21
23	Validation of a two-dimensional liquid chromatography method for quality control testing of pharmaceutical materials. <i>Journal of Chromatography A</i> , <b>2017</b> , 1492, 89-97	4.5	18
22	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> , <b>2020</b> , 92, 5344-5351	7.8	18

21	Sensitive and direct determination of lithium by mixed-mode chromatography and charged aerosol detection. <i>Journal of Chromatography A</i> , <b>2015</b> , 1408, 87-92	4.5	16
20	Reprint of "Mixed-mode chromatography in pharmaceutical and biopharmaceutical applications". <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2016</b> , 130, 19-34	3.5	15
19	Reactive impurities in large and small molecule pharmaceutical excipients [A review]. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 101, 34-42	14.6	12
18	Method screening strategies of stereoisomers of compounds with multiple chiral centers and a single chiral center. <i>Journal of Chromatography A</i> , <b>2020</b> , 1624, 461244	4.5	10
17	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> , <b>2021</b> , 203, 114206	3.5	10
16	Degradation of a pharmaceutical in HPLC grade methanol containing trace level formaldehyde. <i>Pharmaceutical Development and Technology</i> , <b>2013</b> , 18, 877-82	3.4	9
15	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> , <b>2020</b> , 1620, 460987	4.5	8
14	Limiting degradation of reactive antibody drug conjugate intermediates in HPLC method development. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 92, 114-8	3.5	8
13	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> , <b>2021</b> , 93, 14792-14801	7.8	8
12	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> , <b>2017</b> , 137, 182-188	3.5	7
11	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> , <b>2021</b> ,	7.8	5
10	Multi-arm PEG-maleimide conjugation intermediate characterization and hydrolysis study by a selective HPLC method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2019</b> , 164, 452-459	3.5	5
9	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> , <b>2020</b> , 92, 8584-8590	7.8	3
8	Evidence of free radical generation from the interaction of polyethylene glycol with PVC medical tubing. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 197, 113955	3.5	3
7	Automated high-throughput preparation and characterization of oligonucleotide-loaded lipid nanoparticles. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 599, 120392	6.5	3
6	Achiral-Chiral Two-Dimensional Liquid Chromatography Platform to Support Automated High-Throughput Experimentation in the Field of Drug Development. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 15187-15193	7.8	2
5	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> , <b>2022</b> , 1665, 462839	4.5	2
4	Recent Advances in Two-Dimensional Liquid Chromatography for the Characterization of Monoclonal Antibodies and Other Therapeutic Proteins <b>2019</b> , 29-70		2

- 3 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 3.5 1
- 2 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 3.5 1
- 1 A simple generic method for analyzing water sensitive pinacol boronate compounds by hydrophilic interaction liquid chromatography. *Journal of Chromatography Open*, **2022**, 2, 100036