

Alan K Jarmusch

List of Publications by Year in descending order

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56
papers

15,564
citations

172207

29
h-index

143772

57
g-index

70
all docs

70
docs citations

70
times ranked

18607
citing authors

#	ARTICLE	IF	CITATIONS
1	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019, 37, 852-857.	9.4	11,167
2	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	9.0	650
3	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. <i>Nature Protocols</i> , 2020, 15, 1954-1991.	5.5	344
4	Ambient mass spectrometry for the intraoperative molecular diagnosis of human brain tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1611-1616.	3.3	251
5	Lipid and metabolite profiles of human brain tumors by desorption electrospray ionization-MS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1486-1491.	3.3	183
6	Ambient Ionization Mass Spectrometry for Point-of-Care Diagnostics and Other Clinical Measurements. <i>Clinical Chemistry</i> , 2016, 62, 99-110.	1.5	169
7	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	9.4	160
8	Mass spectrometry-based metabolomics in microbiome investigations. <i>Nature Reviews Microbiology</i> , 2022, 20, 143-160.	13.6	148
9	Intraoperative assessment of tumor margins during glioma resection by desorption electrospray ionization-mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6700-6705.	3.3	145
10	Polyhydroxyanthraquinones as Quorum Sensing Inhibitors from the Guttates of <i>Penicillium restrictum</i> and Their Analysis by Desorption Electrospray Ionization Mass Spectrometry. <i>Journal of Natural Products</i> , 2014, 77, 1351-1358.	1.5	122
11	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. <i>Nature Communications</i> , 2021, 12, 3832.	5.8	119
12	Rapid Discrimination of Bacteria by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 7500-7507.	3.2	91
13	ReDU: a framework to find and reanalyze public mass spectrometry data. <i>Nature Methods</i> , 2020, 17, 901-904.	9.0	79
14	Touch spray mass spectrometry for in situ analysis of complex samples. <i>Analyst, The</i> , 2014, 139, 2714-2720.	1.7	77
15	From single cells to our planet—recent advances in using mass spectrometry for spatially resolved metabolomics. <i>Current Opinion in Chemical Biology</i> , 2017, 36, 24-31.	2.8	75
16	Differentiation of prostate cancer from normal tissue in radical prostatectomy specimens by desorption electrospray ionization and touch spray ionization mass spectrometry. <i>Analyst, The</i> , 2015, 140, 1090-1098.	1.7	71
17	Direct drug analysis from oral fluid using medical swab touch spray mass spectrometry. <i>Analytica Chimica Acta</i> , 2015, 861, 47-54.	2.6	68
18	Detection of strep throat causing bacterium directly from medical swabs by touch spray-mass spectrometry. <i>Analyst, The</i> , 2014, 139, 4785-4789.	1.7	66

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19	Coupling Targeted and Untargeted Mass Spectrometry for Metabolome-Microbiome-Wide Association Studies of Human Fecal Samples. <i>Analytical Chemistry</i> , 2017, 89, 7549-7559.	3.2	62
20	Differential Lipid Profiles of Normal Human Brain Matter and Gliomas by Positive and Negative Mode Desorption Electrospray Ionization â€^{c} Mass Spectrometry Imaging. <i>PLoS ONE</i> , 2016, 11, e0163180.	1.1	60
21	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. <i>Food Chemistry</i> , 2020, 302, 125290.	4.2	52
22	Emerging capabilities of mass spectrometry for natural products. <i>Natural Product Reports</i> , 2014, 31, 730-738.	5.2	48
23	Alkaloid Variation Among Epichloid Endophytes of Sleepygrass (<i>Achnatherum robustum</i>) and Consequences for Resistance to Insect Herbivores. <i>Journal of Chemical Ecology</i> , 2015, 41, 93-104.	0.9	46
24	Lipid dynamics in zebrafish embryonic development observed by DESI-MS imaging and nanoelectrospray-MS. <i>Molecular BioSystems</i> , 2016, 12, 2069-2079.	2.9	44
25	Ambient ionization mass spectrometric analysis of human surgical specimens to distinguish renal cell carcinoma from healthy renal tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5407-5414.	1.9	43
26	Assessment of the microbiome during bacteriophage therapy in combination with systemic antibiotics to treat a case of staphylococcal device infection. <i>Microbiome</i> , 2021, 9, 92.	4.9	40
27	Analysis of human gliomas by swab touch spray-mass spectrometry: applications to intraoperative assessment of surgical margins and presence of oncometabolites. <i>Analyst, The</i> , 2017, 142, 4058-4066.	1.7	38
28	Advancements in capturing and mining mass spectrometry data are transforming natural products research. <i>Natural Product Reports</i> , 2021, 38, 2066-2082.	5.2	38
29	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. <i>Nature Methods</i> , 2022, 19, 134-136.	9.0	35
30	Multiple reaction monitoring (MRM) â€ profiling for biomarker discovery applied to human polycystic ovarian syndrome. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1462-1470.	0.7	32
31	Contribution of the Gut Microbiome to Drug Disposition, Pharmacokinetic and Pharmacodynamic Variability. <i>Clinical Pharmacokinetics</i> , 2021, 60, 971-984.	1.6	32
32	Ambient ionisation mass spectrometry for lipid profiling and structural analysis of mammalian oocytes, preimplantation embryos and stem cells. <i>Reproduction, Fertility and Development</i> , 2015, 27, 621.	0.1	31
33	Discrimination of <i>Candida</i> species by paper spray mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 378, 288-293.	0.7	26
34	Utility of neurological smears for intrasurgical brain cancer diagnostics and tumour cell percentage by DESI-MS. <i>Analyst, The</i> , 2017, 142, 449-454.	1.7	25
35	Gastrointestinal Surgery for Inflammatory Bowel Disease Persistently Lowers Microbiome and Metabolome Diversity. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 603-616.	0.9	25
36	Enhancing untargeted metabolomics using metadata-based source annotation. <i>Nature Biotechnology</i> , 2022, 40, 1774-1779.	9.4	25

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37	Characteristic lipid profiles of canine non-Hodgkin's lymphoma from surgical biopsy tissue sections and fine needle aspirate smears by desorption electrospray ionization $\hat{\epsilon}$ mass spectrometry. <i>Analyst, The</i> , 2015, 140, 6321-6329.	1.7	24
38	Metabolites and Lipids Associated with Fetal Swine Anatomy via Desorption Electrospray Ionization $\hat{\epsilon}$ Mass Spectrometry Imaging. <i>Scientific Reports</i> , 2019, 9, 7247.	1.6	24
39	Chemical Proportionality within Molecular Networks. <i>Analytical Chemistry</i> , 2021, 93, 12833-12839.	3.2	22
40	Comparison of electrospray ionization and atmospheric pressure photoionization liquid chromatography mass spectrometry methods for analysis of ergot alkaloids from endophyte-infected sleepygrass (<i>Achnatherum robustum</i>). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 117, 11-17.	1.4	21
41	Feasibility of desorption electrospray ionization mass spectrometry for diagnosis of oral tongue squamous cell carcinoma. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 133-141.	0.7	20
42	Initial Development toward Non-Invasive Drug Monitoring via Untargeted Mass Spectrometric Analysis of Human Skin. <i>Analytical Chemistry</i> , 2019, 91, 8062-8069.	3.2	17
43	Skin molecule maps using mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5261-5262.	3.3	16
44	Enhanced Characterization of Drug Metabolism and the Influence of the Intestinal Microbiome: A Pharmacokinetic, Microbiome, and Untargeted Metabolomics Study. <i>Clinical and Translational Science</i> , 2020, 13, 972-984.	1.5	16
45	Mammalian ovarian lipid distributions by desorption electrospray ionization $\hat{\epsilon}$ mass spectrometry (DESI-MS) imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1251-1262.	1.9	16
46	Protocol for community $\hat{\epsilon}$ created public MS/MS reference spectra within the Global Natural Products Social Molecular Networking infrastructure. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8725.	0.7	14
47	Direct analysis of complex mixtures by mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 709-718.	0.7	13
48	N-Acetylaspartate and 2-Hydroxyglutarate Assessed in Human Brain Tissue by Mass Spectrometry as Neuronal Markers of Oncogenesis. <i>Clinical Chemistry</i> , 2017, 63, 1766-1767.	1.5	12
49	Direct ion generation from swabs. <i>Talanta</i> , 2018, 184, 356-363.	2.9	12
50	Computational Removal of Undesired Mass Spectral Features Possessing Repeat Units via a Kendrick Mass Filter. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 268-277.	1.2	12
51	Fatty Acid Patterns Detected By Ambient Ionization Mass Spectrometry in Canine Invasive Urothelial Carcinoma From Dogs of Different Breeds. <i>Bladder Cancer</i> , 2018, 4, 283-291.	0.2	7
52	Physicochemical properties determining drug detection in skin. <i>Clinical and Translational Science</i> , 2022, 15, 761-770.	1.5	7
53	Evaluating Organism-Wide Changes in the Metabolome and Microbiome following a Single Dose of Antibiotic. <i>MSystems</i> , 2020, 5, .	1.7	6
54	Ambient Lipidomic Analysis of Single Mammalian Oocytes and Preimplantation Embryos Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020, 2064, 159-179.	0.4	5

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55	Ambient Lipidomic Analysis of Brain Tissue Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. <i>Neuromethods</i> , 2017, , 187-210.	0.2	4
56	Microbe-Metabolite Associations Linked to the Rebounding Murine Gut Microbiome Postcolonization with Vancomycin-Resistant <i>Enterococcus faecium</i> . <i>MSystems</i> , 2020, 5, .	1.7	3