Alan K Jarmusch

List of Publications by Year
in descending order

56 papers	15,564 citations	172457 29 h-index	144013 57 g-index
70 all docs	70 docs citations	70 times ranked	18607 citing authors

#	Article	IF	Citations
1	Mass spectrometry-based metabolomics in microbiome investigations. Nature Reviews Microbiology, 2022, 20, 143-160.	28.6	148
2	Physicochemical properties determining drug detection in skin. Clinical and Translational Science, 2022, 15, 761-770.	3.1	7
3	GNPS Dashboard: collaborative exploration of mass spectrometry data in the web browser. Nature Methods, 2022, 19, 134-136.	19.0	35
4	Enhancing untargeted metabolomics using metadata-based source annotation. Nature Biotechnology, 2022, 40, 1774-1779.	17.5	25
5	Gastrointestinal Surgery for Inflammatory Bowel Disease Persistently Lowers Microbiome and Metabolome Diversity. Inflammatory Bowel Diseases, 2021, 27, 603-616.	1.9	25
6	Assessment of the microbiome during bacteriophage therapy in combination with systemic antibiotics to treat a case of staphylococcal device infection. Microbiome, 2021, 9, 92.	11.1	40
7	Contribution of the Gut Microbiome to Drug Disposition, Pharmacokinetic and Pharmacodynamic Variability. Clinical Pharmacokinetics, 2021, 60, 971-984.	3.5	32
8	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. Nature Communications, 2021, 12, 3832.	12.8	119
9	Chemical Proportionality within Molecular Networks. Analytical Chemistry, 2021, 93, 12833-12839.	6.5	22
10	Advancements in capturing and mining mass spectrometry data are transforming natural products research. Natural Product Reports, 2021, 38, 2066-2082.	10.3	38
11	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. Food Chemistry, 2020, 302, 125290.	8.2	52
12	Mass spectrometry searches using MASST. Nature Biotechnology, 2020, 38, 23-26.	17.5	160
13	Evaluating Organism-Wide Changes in the Metabolome and Microbiome following a Single Dose of Antibiotic. MSystems, 2020, 5, .	3.8	6
14	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	19.0	650
15	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
16	Microbe-Metabolite Associations Linked to the Rebounding Murine Gut Microbiome Postcolonization with Vancomycin-Resistant Enterococcus faecium. MSystems, 2020, 5, .	3.8	3
17	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. Nature Protocols, 2020, 15, 1954-1991.	12.0	344
18	Enhanced Characterization of Drug Metabolism and the Influence of the Intestinal Microbiome: A Pharmacokinetic, Microbiome, and Untargeted Metabolomics Study. Clinical and Translational Science, 2020, 13, 972-984.	3.1	16

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19	Mammalian ovarian lipid distributions by desorption electrospray ionizationâ€“mass spectrometry (DESI-MS) imaging. Analytical and Bioanalytical Chemistry, 2020, 412, 1251-1262.	3.7	16
20	Protocol for communityâ€created public MS/MS reference spectra within the Global Natural Products Social Molecular Networking infrastructure. Rapid Communications in Mass Spectrometry, 2020, 34, e8725.	1.5	14
21	Ambient Lipidomic Analysis of Single Mammalian Oocytes and Preimplantation Embryos Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. Methods in Molecular Biology, 2020, 2064, 159-179.	0.9	5
22	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. Nature Biotechnology, 2019, 37, 852-857.	17.5	11,167
23	Initial Development toward Non-Invasive Drug Monitoring via Untargeted Mass Spectrometric Analysis of Human Skin. Analytical Chemistry, 2019, 91, 8062-8069.	6.5	17
24	Metabolites and Lipids Associated with Fetal Swine Anatomy via Desorption Electrospray Ionization â€“ Mass Spectrometry Imaging. Scientific Reports, 2019, 9, 7247.	3.3	24
25	Computational Removal of Undesired Mass Spectral Features Possessing Repeat Units via a Kendrick Mass Filter. Journal of the American Society for Mass Spectrometry, 2019, 30, 268-277.	2.8	12
26	Direct ion generation from swabs. Talanta, 2018, 184, 356-363.	5.5	12
27	Feasibility of desorption electrospray ionization mass spectrometry for diagnosis of oral tongue squamous cell carcinoma. Rapid Communications in Mass Spectrometry, 2018, 32, 133-141.	1.5	20
28	Fatty Acid Patterns Detected By Ambient Ionization Mass Spectrometry in Canine Invasive Urothelial Carcinoma From Dogs of Different Breeds. Bladder Cancer, 2018, 4, 283-291.	0.4	7
29	From single cells to our planetâ€”recent advances in using mass spectrometry for spatially resolved metabolomics. Current Opinion in Chemical Biology, 2017, 36, 24-31.	6.1	75
30	Utility of neurological smears for intrasurgical brain cancer diagnostics and tumour cell percentage by DESI-MS. Analyst, The, 2017, 142, 449-454.	3.5	25
31	Coupling Targeted and Untargeted Mass Spectrometry for Metabolome-Microbiome-Wide Association Studies of Human Fecal Samples. Analytical Chemistry, 2017, 89, 7549-7559.	6.5	62
32	Intraoperative assessment of tumor margins during glioma resection by desorption electrospray ionization-mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6700-6705.	7.1	145
33	Ambient Lipidomic Analysis of Brain Tissue Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. Neuromethods, 2017, , 187-210.	0.3	4
34	Analysis of human gliomas by swab touch spray-mass spectrometry: applications to intraoperative assessment of surgical margins and presence of oncometabolites. Analyst, The, 2017, 142, 4058-4066.	3.5	38
35	N-Acetylaspartate and 2-Hydroxyglutarate Assessed in Human Brain Tissue by Mass Spectrometry as Neuronal Markers of Oncogenesis. Clinical Chemistry, 2017, 63, 1766-1767.	3.2	12
36	Multiple reaction monitoring (MRM)â€profiling for biomarker discovery applied to human polycystic ovarian syndrome. Rapid Communications in Mass Spectrometry, 2017, 31, 1462-1470.	1.5	32

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37	Ambient ionization mass spectrometric analysis of human surgical specimens to distinguish renal cell carcinoma from healthy renal tissue. Analytical and Bioanalytical Chemistry, 2016, 408, 5407-5414.	3.7	43
38	Lipid dynamics in zebrafish embryonic development observed by DESI-MS imaging and nanoelectrospray-MS. Molecular BioSystems, 2016, 12, 2069-2079.	2.9	44
39	Lipid and metabolite profiles of human brain tumors by desorption electrospray ionization-MS. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1486-1491.	7.1	183
40	Ambient Ionization Mass Spectrometry for Point-of-Care Diagnostics and Other Clinical Measurements. Clinical Chemistry, 2016, 62, 99-110.	3.2	169
41	Comparison of electrospray ionization and atmospheric pressure photoionization liquid chromatography mass spectrometry methods for analysis of ergot alkaloids from endophyte-infected sleepygrass (Achnatherum robustum). Journal of Pharmaceutical and Biomedical Analysis, 2016, 117, 11-17.	2.8	21
42	Differential Lipid Profiles of Normal Human Brain Matter and Gliomas by Positive and Negative Mode Desorption Electrospray Ionization â€“ Mass Spectrometry Imaging. PLoS ONE, 2016, 11, e0163180.	2.5	60
43	Discrimination of Candida species by paper spray mass spectrometry. International Journal of Mass Spectrometry, 2015, 378, 288-293.	1.5	26
44	Alkaloid Variation Among Epichloid Endophytes of Sleepygrass (Achnatherum robustum) and Consequences for Resistance to Insect Herbivores. Journal of Chemical Ecology, 2015, 41, 93-104.	1.8	46
45	Direct drug analysis from oral fluid using medical swab touch spray mass spectrometry. Analytica Chimica Acta, 2015, 861, 47-54.	5.4	68
46	Direct analysis of complex mixtures by mass spectrometry. International Journal of Mass Spectrometry, 2015, 377, 709-718.	1.5	13
47	Differentiation of prostate cancer from normal tissue in radical prostatectomy specimens by desorption electrospray ionization and touch spray ionization mass spectrometry. Analyst, The, 2015, 140, 1090-1098.	3.5	71
48	Skin molecule maps using mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5261-5262.	7.1	16
49	Ambient ionisation mass spectrometry for lipid profiling and structural analysis of mammalian oocytes, preimplantation embryos and stem cells. Reproduction, Fertility and Development, 2015, 27, 621.	0.4	31
50	Characteristic lipid profiles of canine non-Hodgkin's lymphoma from surgical biopsy tissue sections and fine needle aspirate smears by desorption electrospray ionization â€“ mass spectrometry. Analyst, The, 2015, 140, 6321-6329.	3.5	24
51	Touch spray mass spectrometry for in situ analysis of complex samples. Analyst, The, 2014, 139, 2714-2720.	3.5	77
52	Detection of strep throat causing bacterium directly from medical swabs by touch spray-mass spectrometry. Analyst, The, 2014, 139, 4785-4789.	3.5	66
53	Rapid Discrimination of Bacteria by Paper Spray Mass Spectrometry. Analytical Chemistry, 2014, 86, 7500-7507.	6.5	91
54	Emerging capabilities of mass spectrometry for natural products. Natural Product Reports, 2014, 31, 730-738.	10.3	48

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55	Polyhydroxyanthraquinones as Quorum Sensing Inhibitors from the Guttates of Penicillium restrictum and Their Analysis by Desorption Electrospray Ionization Mass Spectrometry. Journal of Natural Products, 2014, 77, 1351-1358.	3.0	122
56	Ambient mass spectrometry for the intraoperative molecular diagnosis of human brain tumors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1611-1616.	7.1	251