Steve L Allman

List of Publications by Year
in descending order

37 papers	1,305 citations	331670 21 h-index	377865 34 g-index
37 all docs	37 docs citations	37 times ranked	1075 citing authors

#	Article	IF	Citations
1	The Study of 2,3,4-Trihydroxyacetophenone and 2,4,6-Trihydroxyacetophenone as Matrices for DNA Detection in Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 383-388.	1.5	95
2	Detection of 500-nucleotide DNA by laser desorption mass spectrometry. Rapid Communications in Mass Spectrometry, 1994, 8, 727-730.	1.5	93
3	Caldicellulosiruptor obsidiansis sp. nov., an Anaerobic, Extremely Thermophilic, Cellulolytic Bacterium Isolated from Obsidian Pool, Yellowstone National Park. Applied and Environmental Microbiology, 2010, 76, 1014-1020.	3.1	91
4	Quantitative analysis of biopolymers by matrix-assisted laser desorption. Analytical Chemistry, 1993, 65, 2164-2166.	6.5	78
5	Exploring laser-induced breakdown spectroscopy for nuclear materials analysis and in-situ applications. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 74-75, 177-183.	2.9	70
6	Picolinic acid as a matrix for laser mass spectrometry of nucleic acids and proteins. Rapid Communications in Mass Spectrometry, 1994, 8, 673-677.	1.5	64
7	Mass spectrometry of laser-desorbed oligonucleotides. Rapid Communications in Mass Spectrometry, 1992, 6, 365-368.	1.5	62
8	Sequencing DNA using mass spectrometry for ladder detection. Nucleic Acids Research, 1998, 26, 2488-2490.	14.5	61
9	The Effect of Ammonium Salt and Matrix in the Detection of DNA by Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 1591-1596.	1.5	57
10	Detection of Î”F508 mutation of the cystic fibrosis gene by matrix-assisted laser desorption/ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 1995, 9, 772-774.	1.5	55
11	Enrichment of Root Endophytic Bacteria from Populus deltoides and Single-Cell-Genomics Analysis. Applied and Environmental Microbiology, 2016, 82, 5698-5708.	3.1	53
12	Laser-induced acoustic desorption of electrons and ions. Applied Physics Letters, 1997, 71, 852-854.	3.3	52
13	Matrix-assisted laser desorption ionization of oligonucleotides with various matrices. Rapid Communications in Mass Spectrometry, 1993, 7, 943-948.	1.5	50
14	Quantification of rare earth elements using laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 114, 65-73.	2.9	49
15	Revisit of MALDI for small proteins. Rapid Communications in Mass Spectrometry, 1995, 9, 1315-1320.	1.5	44
16	Multiple Single-Cell Genomes Provide Insight into Functions of Uncultured Deltaproteobacteria in the Human Oral Cavity. PLoS ONE, 2013, 8, e59361.	2.5	44
17	Method for counting noble gas atoms with isotopic selectivity. Reports on Progress in Physics, 1985, 48, 1333-1370.	20.1	43
18	Matrix-assisted laser desorption/ionization of restriction enzyme-digested DNA. Rapid Communications in Mass Spectrometry, 1994, 8, 183-186.	1.5	33

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19	Miniature sensor suitable for electronic nose applications. Review of Scientific Instruments, 2007, 78, 055101.	1.3	31
20	3â€aminopicolinic aid as a matrix for laser desorption mass spectrometry of biopolymers. Rapid Communications in Mass Spectrometry, 1994, 8, 1001-1006.	1.5	30
21	Chemical Cleavage Sequencing of DNA Using Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 1999, 71, 2266-2269.	6.5	27
22	Detection of trinucleotide expansion in neurodegenerative disease by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Genetic Analysis, Techniques and Applications, 1999, 15, 25-31.	1.5	18
23	Quantitative analysis of ternary vapor mixtures using a microcantilever-based electronic nose. Applied Physics Letters, 2007, 91, .	3.3	15
24	MALDI-TOF Mass Spectrometric Method for Detection of Hybridized DNA Oligomers. Analytical Chemistry, 2001, 73, 2126-2131.	6.5	13
25	Gender Identification by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 1999, 71, 3974-3976.	6.5	12
26	Anaerobic High-Throughput Cultivation Method for Isolation of Thermophiles Using Biomass-Derived Substrates. , 2012, 908, 153-168.		11
27	Estimating gas concentration using a microcantilever-based electronic nose. , 2010, 20, 1229-1237.		9
28	Identification and quantification of components in ternary vapor mixtures using a microelectromechanical-system-based electronic nose. Journal of Applied Physics, 2008, 103, .	2.5	8
29	Collection of airborne particles by a high-gradient permanent magnetic method. Journal of Aerosol Science, 2014, 77, 1-9.	3.8	7
30	Micro-Laser-Induced Breakdown Spectroscopy: A Novel Approach Used in the Detection of Six Rare Earths and One Transition Metal. Minerals (Basel, Switzerland), 2019, 9, 103.	2.0	7
31	Nonresonant MALDI of Oligonucleotides:Â Mechanism of Ion Desorption. Analytical Chemistry, 2001, 73, 809-812.	6.5	5
32	Controlled microfluidic production of alginate beads for in situ encapsulation of microbes. , 2009, , .		5
33	MALDI for fast DNA analysis and sequencing. Laboratory Robotics and Automation, 1996, 8, 87-99.	0.2	4
34	Biotin-Enhanced Fragmentation for Direct Deoxyribo-Nucleic Acid Sequencing Using Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. European Journal of Mass Spectrometry, 2003, 9, 213-219.	1.0	3
35	Surface reflectance degradation by microbial communities. Journal of Building Physics, 2016, 40, 263-277.	2.4	3
36	Matrix-assisted laser desorption/ionization detection of polymerase chain reaction products by utilizing the 5?-3? exonuclease activity ofThermus aquaticus DNA polymerase. Rapid Communications in Mass Spectrometry, 2003, 17, 532-537.	1.5	2

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37	Improved measurement for volatile particles: Vapor-particle separator design and laboratory tests. Review of Scientific Instruments, 2011, 82, 125106.	1.3	1