David R Goodlett

List of Publications by Year
in descending order

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70	3,018	236925 25	175258 52
papers	citations	h-index	g-index

74	74	74	4432
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Type VI Secretion-Related Pathway in Bacteroidetes Mediates Interbacterial Antagonism. Cell Host and Microbe, 2014, 16, 227-236.	11.0	311
2	Normalization of NAD ⁺ Redox Balance as a Therapy for Heart Failure. Circulation, 2016, 134, 883-894.	1.6	250
3	An Interbacterial NAD(P)+ Glycohydrolase Toxin Requires Elongation Factor Tu for Delivery to Target Cells. Cell, 2015, 163, 607-619.	28.9	203
4	Human symbionts inject and neutralize antibacterial toxins to persist in the gut. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3639-3644.	7.1	190
5	LPS remodeling is an evolved survival strategy for bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8716-8721.	7.1	167
6	Surface Acoustic Wave Nebulization of Peptides As a Microfluidic Interface for Mass Spectrometry. Analytical Chemistry, 2010, 82, 3985-3989.	6.5	152
7	Strain competition restricts colonization of an enteric pathogen and prevents colitis. EMBO Reports, 2016, 17, 1281-1291.	4.5	151
8	Kin cell lysis is a danger signal that activates antibacterial pathways of Pseudomonas aeruginosa. ELife, 2015, 4, .	6.0	113
9	A microcapillary trap cartridge-microcapillary high-performance liquid chromatography electrospray ionization emitter device capable of peptide tandem mass spectrometry at the attomole level on an ion trap mass spectrometer with automated routine operation. Rapid Communications in Mass Spectrometry, 2003, 17, 2093-2098.	1.5	101
10	Structural Modification of Lipopolysaccharide Conferred by mcr-1 in Gram-Negative ESKAPE Pathogens. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	96
11	Structural heterogeneity and environmentally regulated remodeling of Francisella tularensis subspecies novicida lipid a characterized by tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 2007, 18, 1080-1092.	2.8	85
12	DNA methylation and Transcriptome Changes Associated with Cisplatin Resistance in Ovarian Cancer. Scientific Reports, 2017, 7, 1469.	3.3	70
13	Secreted Effectors Encoded within and outside of the Francisella Pathogenicity Island Promote Intramacrophage Growth. Cell Host and Microbe, 2016, 20, 573-583.	11.0	68
14	Identification of the ESKAPE pathogens by mass spectrometric analysis of microbial membrane glycolipids. Scientific Reports, 2017, 7, 6403.	3.3	63
15	Structural modification of LPS in colistin-resistant, KPC-producing Klebsiella pneumoniae. Journal of Antimicrobial Chemotherapy, 2017, 72, 3035-3042.	3.0	59
16	Serum Proteomes Distinguish Children Developing Type 1 Diabetes in a Cohort With HLA-Conferred Susceptibility. Diabetes, 2015, 64, 2265-2278.	0.6	46
17	Lipid A structural modifications in extreme conditions and identification of unique modifying enzymes to define the Toll-like receptor 4 structure-activity relationship. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1439-1450.	2.4	43
18	Norharmane matrix enhances detection of endotoxin by MALDI-MS for simultaneous profiling of pathogen, host and vector systems. Pathogens and Disease, 2016, 74, .	2.0	41

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19	Multi-Omics Strategies Uncover Hostâ€“Pathogen Interactions. ACS Infectious Diseases, 2019, 5, 493-505.	3.8	39
20	Rapid Microbial Identification and Antibiotic Resistance Detection by Mass Spectrometric Analysis of Membrane Lipids. Analytical Chemistry, 2019, 91, 1286-1294.	6.5	39
21	Comprehensive glycosylation profiling of IgG and IgG-fusion proteins by top-down MS with multiple fragmentation techniques. Journal of Proteomics, 2016, 134, 93-101.	2.4	36
22	Rapid microbial identification and colistin resistance detection via MALDI-TOF MS using a novel on-target extraction of membrane lipids. Scientific Reports, 2020, 10, 21536.	3.3	34
23	Proteome analysis of tissues by mass spectrometry. Mass Spectrometry Reviews, 2019, 38, 403-441.	5.4	31
24	Advances in protein complex analysis by chemical cross-linking coupled with mass spectrometry (CXMS) and bioinformatics. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 123-129.	2.3	30
25	All-Trans-Retinoic Acid Enhances Mitochondrial Function in Models of Human Liver. Molecular Pharmacology, 2016, 89, 560-574.	2.3	29
26	Site-specific activity of the acyltransferases HtrB1 and HtrB2 inPseudomonas aeruginosalipid A biosynthesis. Pathogens and Disease, 2015, 73, ftv053.	2.0	27
27	Global Analysis and Comparison of the Transcriptomes and Proteomes of Group A Streptococcus Biofilms. MSystems, 2016, 1, .	3.8	26
28	The path to preservation: Using proteomics to decipher the fate of diatom proteins during microbial degradation. Limnology and Oceanography, 2010, 55, 1790-1804.	3.1	22
29	Early evolutionary loss of the lipid A modifying enzyme PagP resulting in innate immune evasion inYersinia pestis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22984-22991.	7.1	22
30	Screen-printed digital microfluidics combined with surface acoustic wave nebulization for hydrogen-deuterium exchange measurements. Journal of Chromatography A, 2016, 1439, 161-166.	3.7	21
31	Mass Spectrometry-based Structural Analysis and Systems Immunoproteomics Strategies for Deciphering the Host Response to Endotoxin. Journal of Molecular Biology, 2018, 430, 2641-2660.	4.2	21
32	A Prospective Study of Acinetobacter baumannii Complex Isolates and Colistin Susceptibility Monitoring by Mass Spectrometry of Microbial Membrane Glycolipids. Journal of Clinical Microbiology, 2019, 57, .	3.9	21
33	Deep-sea microbes as tools to refine the rules of innate immune pattern recognition. Science Immunology, 2021, 6, .	11.9	21
34	Rapid lipid a structure determination via surface acoustic wave nebulization and hierarchical tandem mass spectrometry algorithm. Rapid Communications in Mass Spectrometry, 2016, 30, 2555-2560.	1.5	20
35	Serum Proteomic Profiling to Identify Biomarkers of Premature Carotid Atherosclerosis. Scientific Reports, 2018, 8, 9209.	3.3	20
36	Surface acoustic wave nebulization device with dual interdigitated transducers improves SAWNâ€MS performance. Journal of Mass Spectrometry, 2016, 51, 424-429.	1.6	19

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37	Autopiquer - a Robust and Reliable Peak Detection Algorithm for Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 253-262.	2.8	18
38	Pathogen Identification Direct From Polymicrobial Specimens Using Membrane Glycolipids. Scientific Reports, 2018, 8, 15857.	3.3	18
39	Quantitative proteomic characterization and comparison of T helper 17 and induced regulatory T cells. PLoS Biology, 2018, 16, e2004194.	5.6	17
40	Glycosylation characterization of therapeutic mAbs by top- and middle-down mass spectrometry. Data in Brief, 2016, 6, 68-76.	1.0	16
41	Top Down Tandem Mass Spectrometric Analysis of a Chemically Modified Rough-Type Lipopolysaccharide Vaccine Candidate. Journal of the American Society for Mass Spectrometry, 2018, 29, 1221-1229.	2.8	16
42	On-Tissue Derivatization of Lipopolysaccharide for Detection of Lipid A Using MALDI-MSI. Analytical Chemistry, 2020, 92, 13667-13671.	6.5	15
43	Model-Based Spectral Library Approach for Bacterial Identification via Membrane Glycolipids. Analytical Chemistry, 2019, 91, 11482-11487.	6.5	14
44	Streamlined Analysis of Cardiolipins in Prokaryotic and Eukaryotic Samples Using a Norharmane Matrix by MALDI-MSI. Journal of the American Society for Mass Spectrometry, 2020, 31, 2495-2502.	2.8	14
45	Mass Spectrometry-Based Serum Proteomics for Biomarker Discovery and Validation. Methods in Molecular Biology, 2017, 1619, 451-466.	0.9	13
46	CXC Chemokines Exhibit Bactericidal Activity against Multidrug-Resistant Gram-Negative Pathogens. MBio, 2017, 8, .	4.1	12
47	Droplet delivery and nebulization system using surface acoustic wave for mass spectrometry. Lab on A Chip, 2020, 20, 3269-3277.	6.0	12
48	Producing Isotopic Distribution Models for Fully Apodized Absorption Mode FT-MS. Analytical Chemistry, 2015, 87, 5797-5801.	6.5	11
49	Species-Specific Endotoxin Stimulus Determines Toll-Like Receptor 4- and Caspase 11-Mediated Pathway Activation Characteristics. MSystems, 2021, 6, e0030621.	3.8	11
50	Evaluation of electrophoretic protein extraction and database-driven protein identification from marine sediments. Limnology and Oceanography: Methods, 2012, 10, 353-366.	2.0	10
51	Proteomics of Diabetes, Obesity, and Related Disorders. Proteomics - Clinical Applications, 2018, 12, 1600134.	1.6	10
52	DIA-MS proteome analysis of formalin-fixed paraffin-embedded glioblastoma tissues. Analytica Chimica Acta, 2022, 1204, 339695.	5.4	10
53	Detection of Carbofuran-Protein Adducts in Serum of Occupationally Exposed Pesticide Factory Workers in Pakistan. Chemical Research in Toxicology, 2016, 29, 1720-1728.	3.3	9
54	Host-pathogen dynamics through targeted secretome analysis of stimulated macrophages. Journal of Proteomics, 2018, 189, 34-38.	2.4	9

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55	Comparison of different digestion methods for proteomic analysis of isolated cells and FFPE tissue samples. Talanta, 2021, 233, 122568.	5.5	9
56	A Novel Lipid-Based MALDI-TOF Assay for the Rapid Detection of Colistin-Resistant Enterobacter Species. Microbiology Spectrum, 2022, 10, e0144521.	3.0	9
57	Lipid A Structural Determination from a Single Colony. Analytical Chemistry, 2022, 94, 7460-7465.	6.5	9
58	Quantitative targeted proteomic analysis of potential markers of tyrosine kinase inhibitor (TKI) sensitivity in EGFR mutated lung adenocarcinoma. Journal of Proteomics, 2018, 189, 48-59.	2.4	8
59	Toll-like Receptor 4-Independent Effects of Lipopolysaccharide Identified Using Longitudinal Serum Proteomics. Journal of Proteome Research, 2020, 19, 1258-1266.	3.7	8
60	Assessment of the Therapeutic Potential of Persimmon Leaf Extract on Prediabetic Subjects. Molecules and Cells, 2017, 40, 466-475.	2.6	8
61	Caulobacter lipid A is conditionally dispensable in the absence of fur and in the presence of anionic sphingolipids. Cell Reports, 2022, 39, 110888.	6.4	8
62	Structural derivation of lipid A fromCronobacter sakazakiiusing tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 2265-2270.	1.5	7
63	Use of captive spray ionization to increase throughput of the data-independent acquisition technique PAcIFIC. Rapid Communications in Mass Spectrometry, 2016, 30, 1101-1107.	1.5	7
64	Evaluation of Fast and Sensitive Proteome Profiling of FF and FFPE Kidney Patient Tissues. Molecules, 2022, 27, 1137.	3.8	7
65	Dataset describing the development, optimization and application of SRM/MRM based targeted proteomics strategy for quantification of potential biomarkers of EGFR TKI sensitivity. Data in Brief, 2018, 19, 424-436.	1.0	4
66	Rapid Food Product Analysis by Surface Acoustic Wave Nebulization Coupled Mass Spectrometry. Food Analytical Methods, 2018, 11, 2447-2454.	2.6	3
67	An ambient detection system for visualization of charged particles generated with ionization methods at atmospheric pressure. Rapid Communications in Mass Spectrometry, 2016, 30, 352-358.	1.5	2
68	The effect of embryonic origin on the osteoinductive potential of bone allografts. Journal of Prosthetic Dentistry, 2019, 121, 651-658.	2.8	2
69	Droplet Delivery Control for Surface Acoustic Wave Nebulization Mass Spectrometry. , 2019, , .		1
70	Intestinal Deletion of 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Promotes Expansion of the Resident Stem Cell Compartment. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, 381-394.	2.4	1