David J Clarke

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dying and Necrotic Neutrophils Are Anti-Inflammatory Secondary to the Release of α-Defensins. Journal of Immunology, 2009, 183, 2122-2132.	0.4	141
2	The Chemical Basis of Serine Palmitoyltransferase Inhibition by Myriocin. Journal of the American Chemical Society, 2013, 135, 14276-14285.	6.6	98
3	Garlic Revisited: Antimicrobial Activity of Allicin-Containing Garlic Extracts against Burkholderia cepacia Complex. PLoS ONE, 2014, 9, e112726.	1.1	96
4	Structure-Activity Relationships in Defensin Dimers. Journal of Biological Chemistry, 2004, 279, 48671-48679.	1.6	85
5	Analysis and Separation of Residues Important for the Chemoattractant and Antimicrobial Activities of β-Defensin 3. Journal of Biological Chemistry, 2008, 283, 6631-6639.	1.6	81
6	S-nitrosylation of the zinc finger protein SRG1 regulates plant immunity. Nature Communications, 2018, 9, 4226.	5.8	78
7	Structural characterization of encapsulated ferritin provides insight into iron storage in bacterial nanocompartments. ELife, 2016, 5, .	2.8	77
8	Is it biologically relevant to measure the structures of small peptides in the gas-phase?. International Journal of Mass Spectrometry, 2005, 240, 273-284.	0.7	67
9	Chemical Diversity and Complexity of Scotch Whisky as Revealed by High-Resolution Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 200-213.	1.2	67
10	Interactive van Krevelen diagrams – Advanced visualisation of mass spectrometry data of complex mixtures. Rapid Communications in Mass Spectrometry, 2017, 31, 658-662.	0.7	61
11	Maturation of McjA precursor peptide into active microcin MccJ25. Organic and Biomolecular Chemistry, 2007, 5, 2564.	1.5	49
12	Identification of Two Reactive Cysteine Residues in the Tumor Suppressor Protein p53 Using Top-Down FTICR Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2011, 22, 888-897.	1.2	43
13	Probing the Conformational Diversity of Cancerâ€Associated Mutations in p53 with Ionâ€Mobility Mass Spectrometry. Angewandte Chemie - International Edition, 2013, 52, 4370-4374.	7.2	41
14	Structural and Functional Studies of the Biotin Protein Ligase from Aquifex aeolicus Reveal a Critical Role for a Conserved Residue in Target Specificity. Journal of Molecular Biology, 2009, 387, 129-146.	2.0	39
15	Inhibition of the PLP-dependent enzyme serine palmitoyltransferase by cycloserine: evidence for a novel decarboxylative mechanism of inactivation. Molecular BioSystems, 2010, 6, 1682.	2.9	39
16	IL-1β–Induced Protection of Keratinocytes against Staphylococcus aureus-Secreted Proteases Is Mediated by Human β-Defensin 2. Journal of Investigative Dermatology, 2017, 137, 95-105.	0.3	39
17	Cellular redox potential and the biomolecular electrochemical series: A systems hypothesis. Free Radical Biology and Medicine, 2012, 53, 280-288.	1.3	38
18	Plant host and sugar alcohol induced exopolysaccharide biosynthesis in the Burkholderia cepacia complex. Microbiology (United Kingdom), 2008, 154, 2513-2521.	0.7	37

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19	The serine palmitoyltransferase from <i>Sphingomonas wittichii</i> RW1: An interesting link to an unusual acyl carrier protein. Biopolymers, 2010, 93, 811-822.	1.2	37
20	Mapping a Noncovalent Protein–Peptide Interface by Top-Down FTICR Mass Spectrometry Using Electron Capture Dissociation. Journal of the American Society for Mass Spectrometry, 2011, 22, 1432-1440.	1.2	36
21	The pyrenoidal linker protein EPYC1 phase separates with hybrid Arabidopsis–Chlamydomonas Rubisco through interactions with the algal Rubisco small subunit. Journal of Experimental Botany, 2019, 70, 5271-5285.	2.4	36
22	Desalting large protein complexes during native electrospray mass spectrometry by addition of amino acids to the working solution. Analyst, The, 2015, 140, 2679-2686.	1.7	35
23	Subdivision of the Bacterioferritin Comigratory Protein Family of Bacterial Peroxiredoxins Based on Catalytic Activity. Biochemistry, 2010, 49, 1319-1330.	1.2	34
24	Insights into the Conformations of Three Structurally Diverse Proteins: Cytochrome <i>c</i> , p53, and MDM2, Provided by Variable-Temperature Ion Mobility Mass Spectrometry. Analytical Chemistry, 2015, 87, 3231-3238.	3.2	33
25	Dissecting the Dynamic Conformations of the Metamorphic Protein Lymphotactin. Journal of Physical Chemistry B, 2014, 118, 12348-12359.	1.2	32
26	Covalent Dimer Species of β-Defensin Defr1 Display Potent Antimicrobial Activity against Multidrug-Resistant Bacterial Pathogens. Antimicrobial Agents and Chemotherapy, 2007, 51, 1719-1724.	1.4	29
27	Untargeted Metabolite Mapping in 3D Cell Culture Models Using High Spectral Resolution FT-ICR Mass Spectrometry Imaging. Analytical Chemistry, 2019, 91, 9522-9529.	3.2	28
28	MALDI Matrix Application Utilizing a Modified 3D Printer for Accessible High Resolution Mass Spectrometry Imaging. Analytical Chemistry, 2018, 90, 8742-8749.	3.2	27
29	Complementary Ionization Techniques for the Analysis of Scotch Whisky by High Resolution Mass Spectrometry. Analytical Chemistry, 2018, 90, 11265-11272.	3.2	23
30	Conservation of the structural and functional architecture of encapsulated ferritins in bacteria and archaea. Biochemical Journal, 2019, 476, 975-989.	1.7	23
31	Pore dynamics and asymmetric cargo loading in an encapsulin nanocompartment. Science Advances, 2022, 8, eabj4461.	4.7	22
32	Redox regulation of tumour suppressor protein p53: identification of the sites of hydrogen peroxide oxidation and glutathionylation. Chemical Science, 2013, 4, 1257.	3.7	21
33	Characterization of secreted sphingosineâ€1â€phosphate lyases required for virulence and intracellular survival of <i>Burkholderia pseudomallei</i> . Molecular Microbiology, 2016, 102, 1004-1019.	1.2	19
34	Interrogating the Molecular Details of the Peroxiredoxin Activity of theEscherichia coliBacterioferritin Comigratory Protein Using High-Resolution Mass Spectrometry. Biochemistry, 2009, 48, 3904-3914.	1.2	18
35	Insight into Coenzyme A cofactor binding and the mechanism of acyl-transfer in an acylating aldehyde dehydrogenase from Clostridium phytofermentans. Scientific Reports, 2016, 6, 22108.	1.6	18
36	Autopiquer - a Robust and Reliable Peak Detection Algorithm for Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 253-262.	1.2	18

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37	Efficient Production of Human β-Defensin 2 (HBD2) in Escherichia coli. Protein and Peptide Letters, 2009, 16, 668-676.	0.4	17
38	Online Quench-Flow Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Elucidating Kinetic and Chemical Enzymatic Reaction Mechanisms. Analytical Chemistry, 2010, 82, 1897-1904.	3.2	17
39	New cytotoxic callipeltins from the Solomon Island marine sponge Asteropus sp Tetrahedron, 2016, 72, 6929-6934.	1.0	17
40	Top-down protein sequencing by CID and ECD using desorption electrospray ionisation (DESI) and high-field FTICR mass spectrometry. International Journal of Mass Spectrometry, 2010, 289, 54-57.	0.7	15
41	Conformational Preferences of Linear β-Defensins Are Revealed by Ion Mobility-Mass Spectrometry. Journal of Physical Chemistry B, 2010, 114, 2312-2318.	1.2	15
42	Biotinylation in the hyperthermophile Aquifex aeolicus. Isolation of a cross-linked BPL:BCCP complex. FEBS Journal, 2003, 270, 1277-1287.	0.2	14
43	l-Penicillamine is a mechanism-based inhibitor of serine palmitoyltransferase by forming a pyridoxal-5′-phosphate-thiazolidine adduct. MedChemComm, 2012, 3, 1003.	3.5	14
44	Mass spectrometry reveals the assembly pathway of encapsulated ferritins and highlights a dynamic ferroxidase interface. Chemical Communications, 2020, 56, 3417-3420.	2.2	14
45	Dissection of the DNA Mimicry of the Bacteriophage T7 Ocr Protein using Chemical Modification. Journal of Molecular Biology, 2009, 391, 565-576.	2.0	13
46	Reconstitution of the pyridoxal 5′-phosphate (PLP) dependent enzyme serine palmitoyltransferase (SPT) with pyridoxal reveals a crucial role for the phosphate during catalysis. Chemical Communications, 2013, 49, 7058.	2.2	13
47	High resolution fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS) for the characterisation of enzymatic processing of commercial lignin. New Biotechnology, 2019, 52, 1-8.	2.4	13
48	Dissecting the structural and functional roles of a putative metal entry site in encapsulated ferritins. Journal of Biological Chemistry, 2020, 295, 15511-15526.	1.6	13
49	Mass spectrometry analysis of the oxidation states of the pro-oncogenic protein anterior gradient-2 reveals covalent dimerization via an intermolecular disulphide bond. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 551-561.	1.1	12
50	Binding a heparin derived disaccharide to defensin inspired peptides: insights to antimicrobial inhibition from gas-phase measurements. Physical Chemistry Chemical Physics, 2010, 12, 3589.	1.3	11
51	Characterization of homologous sphingosine-1-phosphate lyase isoforms in the bacterial pathogen Burkholderia pseudomallei. Journal of Lipid Research, 2017, 58, 137-150.	2.0	11
52	Restriction endonuclease Tsel cleaves A:A and T:T mismatches in CAG and CTG repeats. Nucleic Acids Research, 2013, 41, 4999-5009.	6.5	10
53	Isotope Depletion Mass Spectrometry (ID-MS) for Accurate Mass Determination and Improved Top-Down Sequence Coverage of Intact Proteins. Journal of the American Society for Mass Spectrometry, 2020, 31, 700-710.	1.2	10
54	Use of isotopically labeled substrates reveals kinetic differences between human and bacterial serine palmitoyltransferase. Journal of Lipid Research, 2019, 60, 953-962.	2.0	7

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55	Native ion mobility mass spectrometry reveals that small organic acid fragments impart gasâ€phase stability to carbonic anhydrase II. Rapid Communications in Mass Spectrometry, 2020, 34, e8570.	0.7	7
56	Preparation of isotopically labelled recombinant β-defensin for NMR studies. Protein Expression and Purification, 2009, 65, 179-184.	0.6	6
57	Determination of Protein Thiol Reduction Potential by Isotope Labeling and Intact Mass Measurement. Analytical Chemistry, 2016, 88, 2727-2733.	3.2	5
58	A native mass spectrometry platform identifies HOP inhibitors that modulate the HSP90–HOP protein–protein interaction. Chemical Communications, 2021, 57, 10919-10922.	2.2	3
59	An affinity purification procedure to isolate oxidized p53. Analytical Biochemistry, 2012, 420, 96-98.	1.1	2
60	Cloning, expression, purification, crystallization and preliminary X-ray characterization of the full-length single-stranded DNA-binding protein from the hyperthermophilic bacteriumAquifex aeolicus. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2009-2012.	2.5	1