David J Clarke

List of Publications by Year
in descending order

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60 papers	1,933 citations	201674 27 h-index	276875 41 g-index
65 all docs	65 docs citations	65 times ranked	3182 citing authors

#	Article	IF	Citations
1	Pore dynamics and asymmetric cargo loading in an encapsulin nanocompartment. Science Advances, 2022, 8, eabj4461.	10.3	22
2	A native mass spectrometry platform identifies HOP inhibitors that modulate the HSP90â€“HOP proteinâ€“protein interaction. Chemical Communications, 2021, 57, 10919-10922.	4.1	3
3	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.	1.5	7
4	Dissecting the structural and functional roles of a putative metal entry site in encapsulated ferritins. Journal of Biological Chemistry, 2020, 295, 15511-15526.	3.4	13
5	Mass spectrometry reveals the assembly pathway of encapsulated ferritins and highlights a dynamic ferroxidase interface. Chemical Communications, 2020, 56, 3417-3420.	4.1	14
6	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.	2.8	10
7	Untargeted Metabolite Mapping in 3D Cell Culture Models Using High Spectral Resolution FT-ICR Mass Spectrometry Imaging. Analytical Chemistry, 2019, 91, 9522-9529.	6.5	28
8	The pyrenoidal linker protein EPYC1 phase separates with hybrid Arabidopsisâ€“Chlamydomonas Rubisco through interactions with the algal Rubisco small subunit. Journal of Experimental Botany, 2019, 70, 5271-5285.	4.8	36
9	Conservation of the structural and functional architecture of encapsulated ferritins in bacteria and archaea. Biochemical Journal, 2019, 476, 975-989.	3.7	23
10	Use of isotopically labeled substrates reveals kinetic differences between human and bacterial serine palmitoyltransferase. Journal of Lipid Research, 2019, 60, 953-962.	4.2	7
11	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.	4.4	13
12	S-nitrosylation of the zinc finger protein SRG1 regulates plant immunity. Nature Communications, 2018, 9, 4226.	12.8	78
13	Complementary Ionization Techniques for the Analysis of Scotch Whisky by High Resolution Mass Spectrometry. Analytical Chemistry, 2018, 90, 11265-11272.	6.5	23
14	MALDI Matrix Application Utilizing a Modified 3D Printer for Accessible High Resolution Mass Spectrometry Imaging. Analytical Chemistry, 2018, 90, 8742-8749.	6.5	27
15	Interactive van Krevelen diagrams â€“ Advanced visualisation of mass spectrometry data of complex mixtures. Rapid Communications in Mass Spectrometry, 2017, 31, 658-662.	1.5	61
16	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
17	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.	2.8	67
18	Characterization of homologous sphingosine-1-phosphate lyase isoforms in the bacterial pathogen Burkholderia pseudomallei. Journal of Lipid Research, 2017, 58, 137-150.	4.2	11

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19	IL-1Î²â€“Induced Protection of Keratinocytes against Staphylococcus aureus-Secreted Proteases Is Mediated by Human Î²-Defensin 2. Journal of Investigative Dermatology, 2017, 137, 95-105.	0.7	39
20	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.	3.3	18
21	New cytotoxic callipeltins from the Solomon Island marine sponge Asteropus sp.. Tetrahedron, 2016, 72, 6929-6934.	1.9	17
22	Characterization of secreted sphingosineâ€1â€phosphate lyases required for virulence and intracellular survival of Burkholderia pseudomallei. Molecular Microbiology, 2016, 102, 1004-1019.	2.5	19
23	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.	2.3	12
24	Determination of Protein Thiol Reduction Potential by Isotope Labeling and Intact Mass Measurement. Analytical Chemistry, 2016, 88, 2727-2733.	6.5	5
25	Structural characterization of encapsulated ferritin provides insight into iron storage in bacterial nanocompartments. ELife, 2016, 5, .	6.0	77
26	Insights into the Conformations of Three Structurally Diverse Proteins: Cytochrome c, p53, and MDM2, Provided by Variable-Temperature Ion Mobility Mass Spectrometry. Analytical Chemistry, 2015, 87, 3231-3238.	6.5	33
27	Desalting large protein complexes during native electrospray mass spectrometry by addition of amino acids to the working solution. Analyst, The, 2015, 140, 2679-2686.	3.5	35
28	Garlic Revisited: Antimicrobial Activity of Allicin-Containing Garlic Extracts against Burkholderia cepacia Complex. PLoS ONE, 2014, 9, e112726.	2.5	96
29	Dissecting the Dynamic Conformations of the Metamorphic Protein Lymphotactin. Journal of Physical Chemistry B, 2014, 118, 12348-12359.	2.6	32
30	Reconstitution of the pyridoxal 5â€²-phosphate (PLP) dependent enzyme serine palmitoyltransferase (SPT) with pyridoxal reveals a crucial role for the phosphate during catalysis. Chemical Communications, 2013, 49, 7058.	4.1	13
31	Restriction endonuclease TseI cleaves A:A and T:T mismatches in CAG and CTG repeats. Nucleic Acids Research, 2013, 41, 4999-5009.	14.5	10
32	Redox regulation of tumour suppressor protein p53: identification of the sites of hydrogen peroxide oxidation and glutathionylation. Chemical Science, 2013, 4, 1257.	7.4	21
33	Probing the Conformational Diversity of Cancerâ€Associated Mutations in p53 with Ionâ€Mobility Mass Spectrometry. Angewandte Chemie - International Edition, 2013, 52, 4370-4374.	13.8	41
34	The Chemical Basis of Serine Palmitoyltransferase Inhibition by Myriocin. Journal of the American Chemical Society, 2013, 135, 14276-14285.	13.7	98
35	l-Penicillamine is a mechanism-based inhibitor of serine palmitoyltransferase by forming a pyridoxal-5â€²-phosphate-thiazolidine adduct. MedChemComm, 2012, 3, 1003.	3.4	14
36	An affinity purification procedure to isolate oxidized p53. Analytical Biochemistry, 2012, 420, 96-98.	2.4	2

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37	Cellular redox potential and the biomolecular electrochemical series: A systems hypothesis. Free Radical Biology and Medicine, 2012, 53, 280-288.	2.9	38
38	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.	2.8	43
39	Mapping a Noncovalent Proteinâ€“Peptide Interface by Top-Down FTICR Mass Spectrometry Using Electron Capture Dissociation. Journal of the American Society for Mass Spectrometry, 2011, 22, 1432-1440.	2.8	36
40	The serine palmitoyltransferase from Sphingomonas wittichii RW1: An interesting link to an unusual acyl carrier protein. Biopolymers, 2010, 93, 811-822.	2.4	37
41	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.	1.5	15
42	Subdivision of the Bacterioferritin Comigratory Protein Family of Bacterial Peroxiredoxins Based on Catalytic Activity. Biochemistry, 2010, 49, 1319-1330.	2.5	34
43	Conformational Preferences of Linear Î²-Defensins Are Revealed by Ion Mobility-Mass Spectrometry. Journal of Physical Chemistry B, 2010, 114, 2312-2318.	2.6	15
44	Binding a heparin derived disaccharide to defensin inspired peptides: insights to antimicrobial inhibition from gas-phase measurements. Physical Chemistry Chemical Physics, 2010, 12, 3589.	2.8	11
45	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.	6.5	17
46	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
47	Dying and Necrotic Neutrophils Are Anti-Inflammatory Secondary to the Release of Î±-Defensins. Journal of Immunology, 2009, 183, 2122-2132.	0.8	141
48	Interrogating the Molecular Details of the Peroxiredoxin Activity of theEscherichia coliBacterioferritin Comigratory Protein Using High-Resolution Mass Spectrometry. Biochemistry, 2009, 48, 3904-3914.	2.5	18
49	Preparation of isotopically labelled recombinant Î²-defensin for NMR studies. Protein Expression and Purification, 2009, 65, 179-184.	1.3	6
50	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.	4.2	39
51	Dissection of the DNA Mimicry of the Bacteriophage T7 Ocr Protein using Chemical Modification. Journal of Molecular Biology, 2009, 391, 565-576.	4.2	13
52	Efficient Production of Human β-Defensin 2 (HBD2) in Escherichia coli. Protein and Peptide Letters, 2009, 16, 668-676.	0.9	17
53	Plant host and sugar alcohol induced exopolysaccharide biosynthesis in the Burkholderia cepacia complex. Microbiology (United Kingdom), 2008, 154, 2513-2521.	1.8	37
54	Analysis and Separation of Residues Important for the Chemoattractant and Antimicrobial Activities of Î²-Defensin 3. Journal of Biological Chemistry, 2008, 283, 6631-6639.	3.4	81

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55	Covalent Dimer Species of Î²-Defensin Defr1 Display Potent Antimicrobial Activity against Multidrug-Resistant Bacterial Pathogens. Antimicrobial Agents and Chemotherapy, 2007, 51, 1719-1724.	3.2	29
56	Maturation of McjA precursor peptide into active microcin MccJ25. Organic and Biomolecular Chemistry, 2007, 5, 2564.	2.8	49
57	Is it biologically relevant to measure the structures of small peptides in the gas-phase?. International Journal of Mass Spectrometry, 2005, 240, 273-284.	1.5	67
58	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
59	Structure-Activity Relationships in Defensin Dimers. Journal of Biological Chemistry, 2004, 279, 48671-48679.	3.4	85
60	Biotinylation in the hyperthermophile Aquifex aeolicus. Isolation of a cross-linked BPL:BCCP complex. FEBS Journal, 2003, 270, 1277-1287.	0.2	14