David J Clarke

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/89721/publications.pdf

Version: 2024-02-01

61 2,008 28 42 papers citations h-index g-index

63 63 3441 all docs docs citations times ranked citing authors

| # | 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. | 0.8 | 141 |
| 2 | The Chemical Basis of Serine Palmitoyltransferase Inhibition by Myriocin. Journal of the American Chemical Society, 2013, 135, 14276-14285. | 13.7 | 98 |
| 3 | Garlic Revisited: Antimicrobial Activity of Allicin-Containing Garlic Extracts against Burkholderia cepacia Complex. PLoS ONE, 2014, 9, e112726. | 2.5 | 96 |
| 4 | Structure-Activity Relationships in Defensin Dimers. Journal of Biological Chemistry, 2004, 279, 48671-48679. | 3.4 | 85 |
| 5 | Analysis and Separation of Residues Important for the Chemoattractant and Antimicrobial Activities of \hat{I}^2 -Defensin 3. Journal of Biological Chemistry, 2008, 283, 6631-6639. | 3.4 | 81 |
| 6 | S-nitrosylation of the zinc finger protein SRG1 regulates plant immunity. Nature Communications, 2018, 9, 4226. | 12.8 | 78 |
| 7 | Structural characterization of encapsulated ferritin provides insight into iron storage in bacterial nanocompartments. ELife, 2016, 5, . | 6.0 | 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. | 1.5 | 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. | 2.8 | 67 |
| 10 | Microglial cell hyper-ramification and neuronal dendritic spine loss in the hippocampus and medial prefrontal cortex in a mouse model of PTSD. Brain, Behavior, and Immunity, 2019, 80, 889-899. | 4.1 | 64 |
| 11 | Interactive van Krevelen diagrams – Advanced visualisation of mass spectrometry data of complex mixtures. Rapid Communications in Mass Spectrometry, 2017, 31, 658-662. | 1.5 | 61 |
| 12 | Maturation of McjA precursor peptide into active microcin MccJ25. Organic and Biomolecular Chemistry, 2007, 5, 2564. | 2.8 | 49 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Molecular basis of Streptococcus mutans sortase A inhibition by the flavonoid natural product trans-chalcone. Chemical Communications, 2015, 51, 10483-10485. | 4.1 | 39 |
| 18 | IL- $1\hat{1}^2\hat{a}$ \in "Induced Protection of Keratinocytes against Staphylococcus aureus-Secreted Proteases Is Mediated by Human $\hat{1}^2$ -Defensin 2. Journal of Investigative Dermatology, 2017, 137, 95-105. | 0.7 | 39 |

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| 19 | Cellular redox potential and the biomolecular electrochemical series: A systems hypothesis. Free Radical Biology and Medicine, 2012, 53, 280-288. | 2.9 | 38 |
| 20 | Plant host and sugar alcohol induced exopolysaccharide biosynthesis in the Burkholderia cepacia complex. Microbiology (United Kingdom), 2008, 154, 2513-2521. | 1.8 | 37 |
| 21 | The serine palmitoyltransferase from <i>Sphingomonas wittichii</i> RW1: An interesting link to an unusual acyl carrier protein. Biopolymers, 2010, 93, 811-822. | 2.4 | 37 |
| 22 | 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. | 2.8 | 36 |
| 23 | 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 |
| 24 | Subdivision of the Bacterioferritin Comigratory Protein Family of Bacterial Peroxiredoxins Based on Catalytic Activity. Biochemistry, 2010, 49, 1319-1330. | 2.5 | 34 |
| 25 | 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. | 6.5 | 33 |
| 26 | Dissecting the Dynamic Conformations of the Metamorphic Protein Lymphotactin. Journal of Physical Chemistry B, 2014, 118, 12348-12359. | 2.6 | 32 |
| 27 | Interactions between cannabidiol and î"9-THC following acute and repeated dosing: Rebound hyperactivity, sensorimotor gating and epigenetic and neuroadaptive changes in the mesolimbic pathway. European Neuropsychopharmacology, 2017, 27, 132-145. | 0.7 | 30 |
| 28 | Covalent Dimer Species of \hat{l}^2 -Defensin Defr1 Display Potent Antimicrobial Activity against Multidrug-Resistant Bacterial Pathogens. Antimicrobial Agents and Chemotherapy, 2007, 51, 1719-1724. | 3.2 | 29 |
| 29 | 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 |
| 30 | MALDI Matrix Application Utilizing a Modified 3D Printer for Accessible High Resolution Mass Spectrometry Imaging. Analytical Chemistry, 2018, 90, 8742-8749. | 6.5 | 27 |
| 31 | Complementary Ionization Techniques for the Analysis of Scotch Whisky by High Resolution Mass Spectrometry. Analytical Chemistry, 2018, 90, 11265-11272. | 6.5 | 23 |
| 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 | Endocannabinoid dysregulation in cognitive and stress-related brain regions in the Nrg1 mouse model of schizophrenia. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2017, 72, 9-15. | 4.8 | 21 |
| 34 | Characterization of secreted sphingosineâ€1â€phosphate lyases required for virulence and intracellular survival of <i>Burkholderia pseudomallei</i>). Molecular Microbiology, 2016, 102, 1004-1019. | 2.5 | 19 |
| 35 | 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 |
| 36 | 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 |

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|----|--|------|-----------|
| 37 | Genetic deletion of P-glycoprotein alters stress responsivity and increases depression-like behavior, social withdrawal and microglial activation in the hippocampus of female mice. Brain, Behavior, and Immunity, 2017, 65, 251-261. | 4.1 | 18 |
| 38 | 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 |
| 39 | Efficient Production of Human & Samp; #946; -Defensin 2 (HBD2) in Escherichia coli. Protein and Peptide Letters, 2009, 16, 668-676. | 0.9 | 17 |
| 40 | 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 |
| 41 | New cytotoxic callipeltins from the Solomon Island marine sponge Asteropus sp Tetrahedron, 2016, 72, 6929-6934. | 1.9 | 17 |
| 42 | Neuregulin 1 Deficiency Modulates Adolescent Stress-Induced Dendritic Spine Loss in a Brain Region-Specific Manner and Increases Complement 4 Expression in the Hippocampus. Schizophrenia Bulletin, 2019, 45, 339-349. | 4.3 | 16 |
| 43 | 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 |
| 44 | Conformational Preferences of Linear \hat{l}^2 -Defensins Are Revealed by Ion Mobility-Mass Spectrometry. Journal of Physical Chemistry B, 2010, 114, 2312-2318. | 2.6 | 15 |
| 45 | Biotinylation in the hyperthermophile Aquifex aeolicus. Isolation of a cross-linked BPL:BCCP complex. FEBS Journal, 2003, 270, 1277-1287. | 0.2 | 14 |
| 46 | l-Penicillamine is a mechanism-based inhibitor of serine palmitoyltransferase by forming a pyridoxal- $5\hat{a}$ e-phosphate-thiazolidine adduct. MedChemComm, 2012, 3, 1003. | 3.4 | 14 |
| 47 | Mass spectrometry reveals the assembly pathway of encapsulated ferritins and highlights a dynamic ferroxidase interface. Chemical Communications, 2020, 56, 3417-3420. | 4.1 | 14 |
| 48 | 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 |
| 49 | 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. | 4.1 | 13 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Restriction endonuclease Tsel cleaves A:A and T:T mismatches in CAG and CTG repeats. Nucleic Acids Research, 2013, 41, 4999-5009. | 14.5 | 10 |
| 54 | 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 |

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| 55 | Nrg1 deficiency modulates the behavioural effects of prenatal stress in mice. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 88, 86-95. | 4.8 | 8 |
| 56 | 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 |
| 57 | Preparation of isotopically labelled recombinant \hat{l}^2 -defensin for NMR studies. Protein Expression and Purification, 2009, 65, 179-184. | 1.3 | 6 |
| 58 | Determination of Protein Thiol Reduction Potential by Isotope Labeling and Intact Mass Measurement. Analytical Chemistry, 2016, 88, 2727-2733. | 6.5 | 5 |
| 59 | Improved identification and quantification of peptides in mass spectrometry data via chemical and random additive noise elimination (CRANE). Bioinformatics, 2021, 37, 4719-4726. | 4.1 | 4 |
| 60 | An affinity purification procedure to isolate oxidized p53. Analytical Biochemistry, 2012, 420, 96-98. | 2.4 | 2 |
| 61 | 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 |