

# William K Russell

## List of Publications by Year in descending order

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84  
papers

3,254  
citations

117625

34  
h-index

168389

53  
g-index

84  
all docs

84  
docs citations

84  
times ranked

4335  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Proteolysis in Mixed Organic~Aqueous Solvent Systems:~Applications for Peptide Mass Mapping Using Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 2682-2685.                                                                                | 6.5  | 266       |
| 2  | A Universal Strategy for Proteomic Studies of SUMO and Other Ubiquitin-like Modifiers. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 56-72.                                                                                                      | 3.8  | 195       |
| 3  | Peptidomics of CNS-associated neurohemal systems of adult <i>Drosophila melanogaster</i> : A mass spectrometric survey of peptides from individual flies. <i>Journal of Comparative Neurology</i> , 2004, 474, 379-392.                                | 1.6  | 170       |
| 4  | Neuropeptidomics of the Mosquito <i>Aedes aegypti</i> . <i>Journal of Proteome Research</i> , 2010, 9, 2006-2015.                                                                                                                                      | 3.7  | 141       |
| 5  | Silver Nanoparticles as Selective Ionization Probes for Analysis of Olefins by Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 6796-6799.                                                                                                   | 6.5  | 121       |
| 6  | Integrator Recruits Protein Phosphatase 2A to Prevent Pause Release and Facilitate Transcription Termination. <i>Molecular Cell</i> , 2020, 80, 345-358.e9.                                                                                            | 9.7  | 109       |
| 7  | An atlas of alternative polyadenylation quantitative trait loci contributing to complex trait and disease heritability. <i>Nature Genetics</i> , 2021, 53, 994-1005.                                                                                   | 21.4 | 85        |
| 8  | Trafficking of ODV-E66 is mediated via a sorting motif and other viral proteins: Facilitated trafficking to the inner nuclear membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8372-8377. | 7.1  | 83        |
| 9  | The de novo engineering of pyrrolysyl-tRNA synthetase for genetic incorporation of l-phenylalanine and its derivatives. <i>Molecular BioSystems</i> , 2011, 7, 714.                                                                                    | 2.9  | 76        |
| 10 | A genetically encoded photocaged N~methyl-l-lysine. <i>Molecular BioSystems</i> , 2010, 6, 1557.                                                                                                                                                       | 2.9  | 72        |
| 11 | Oxidative damage diminishes mitochondrial DNA polymerase replication fidelity. <i>Nucleic Acids Research</i> , 2020, 48, 817-829.                                                                                                                      | 14.5 | 69        |
| 12 | Spectroscopic, Redox, and Structural Characterization of the Ni-Labile and Nonlabile Forms of the Acetyl-CoA Synthase Active Site of Carbon Monoxide Dehydrogenase. <i>Journal of the American Chemical Society</i> , 1998, 120, 7502-7510.            | 13.7 | 67        |
| 13 | Corazonin in insects. <i>Peptides</i> , 2007, 28, 3-10.                                                                                                                                                                                                | 2.4  | 66        |
| 14 | Biochemical and Functional Analyses of the Human Toll-like Receptor 3 Ectodomain. <i>Journal of Biological Chemistry</i> , 2007, 282, 7668-7678.                                                                                                       | 3.4  | 59        |
| 15 | Influence of water and enzyme SpnF on the dynamics and energetics of the ambimodal [6+4]/[4+2] cycloaddition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E848-E855.                           | 7.1  | 57        |
| 16 | Pro-sterol Carrier Protein-2. <i>Journal of Biological Chemistry</i> , 2000, 275, 25547-25555.                                                                                                                                                         | 3.4  | 56        |
| 17 | Liver Proteome Analysis in a Rodent Model of Alcoholic Steatosis. <i>Journal of Proteome Research</i> , 2009, 8, 1663-1671.                                                                                                                            | 3.7  | 56        |
| 18 | Genetic incorporation of an aliphatic keto-containing amino acid into proteins for their site-specific modifications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 878-880.                                                           | 2.2  | 56        |

| #  | ARTICLE                                                                                                                                                                                                                                           | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | A convenient method for genetic incorporation of multiple noncanonical amino acids into one protein in <i>Escherichia coli</i> . <i>Molecular BioSystems</i> , 2010, 6, 683.                                                                      | 2.9  | 56        |
| 20 | Genomes and Characterization of Phages Bcep22 and BcepL02, Founders of a Novel Phage Type in <i>Burkholderia cenocepacia</i> . <i>Journal of Bacteriology</i> , 2011, 193, 5300-5313.                                                             | 2.2  | 52        |
| 21 | Imaging secondary metabolism of <i>Streptomyces</i> sp. Mg1 during cellular lysis and colony degradation of competing <i>Bacillus subtilis</i> . <i>Antonie Van Leeuwenhoek</i> , 2012, 102, 435-445.                                             | 1.7  | 50        |
| 22 | Proteomic Analysis of 3T3-L1 Adipocyte Mitochondria during Differentiation and Enlargement. <i>Journal of Proteome Research</i> , 2011, 10, 4692-4702.                                                                                            | 3.7  | 48        |
| 23 | Peptidoglycan-Associated Cyclic Lipopeptide Disrupts Viral Infectivity. <i>Journal of Virology</i> , 2019, 93, .                                                                                                                                  | 3.4  | 47        |
| 24 | Global Reprogramming of Host Kinase Signaling in Response to Fungal Infection. <i>Cell Host and Microbe</i> , 2017, 21, 637-649.e6.                                                                                                               | 11.0 | 44        |
| 25 | Identification of tick periviscerokinin, the first neurohormone of Ixodidae: Single cell analysis by means of MALDI-TOF/TOF mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1860-1864.                 | 2.1  | 43        |
| 26 | Comparative peptidomics of four related hemipteran species: Pyrokinins, myosuppressin, corazonin, adipokinetic hormone, sNPF, and periviscerokinins. <i>Peptides</i> , 2008, 29, 162-167.                                                         | 2.4  | 43        |
| 27 | Combining Chemical Labeling, Bottom-Up and Top-Down Ion-Mobility Mass Spectrometry To Identify Metal-Binding Sites of Partially Metalated Metallothionein. <i>Analytical Chemistry</i> , 2013, 85, 3229-3237.                                     | 6.5  | 43        |
| 28 | Improvement of Resolution, Mass Accuracy, and Reproducibility in Reflected Mode DE-MALDI-TOF Analysis of DNA Using Fast Evaporation Overlayer Sample Preparations. <i>Analytical Chemistry</i> , 2000, 72, 3860-3866.                             | 6.5  | 42        |
| 29 | Accurate mass measurement of DNA oligonucleotide ions using high-resolution time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2002, 37, 357-371.                                                                            | 1.6  | 41        |
| 30 | PI4KIII <sup>2</sup> is a therapeutic target in chromosome 1q <sup>25</sup> amplified lung adenocarcinoma. <i>Science Translational Medicine</i> , 2020, 12, .                                                                                    | 12.4 | 41        |
| 31 | A High Repetition Rate (1 kHz) Microcrystal Laser for High Throughput Atmospheric Pressure MALDI-Quadrupole-Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 648-654.                                                    | 6.5  | 38        |
| 32 | Investigation of the mechanism of the SpnF-catalyzed [4+2]-cycloaddition reaction in the biosynthesis of spinosyn A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10408-10413.             | 7.1  | 38        |
| 33 | Functional Analysis of RNA Binding by the Hepatitis C Virus RNA-dependent RNA Polymerase. <i>Journal of Biological Chemistry</i> , 2005, 280, 38011-38019.                                                                                        | 3.4  | 37        |
| 34 | Purification and characterization of <i>Arabidopsis thaliana</i> oligosaccharyltransferase complexes from the native host: a protein superexpression system for structural studies. <i>Plant Journal</i> , 2018, 94, 131-145.                     | 5.7  | 37        |
| 35 | Mass spectrometric assignment of Leu/Ile in neuropeptides from single neurohemal organ preparations of insects. <i>Peptides</i> , 2005, 26, 2151-2156.                                                                                            | 2.4  | 35        |
| 36 | Isolation and characterization of two disintegrins inhibiting ADP-induced human platelet aggregation from the venom of <i>Crotalus scutulatus scutulatus</i> (Mohave Rattlesnake). <i>Toxicology and Applied Pharmacology</i> , 2006, 212, 59-68. | 2.8  | 34        |

| #  | ARTICLE                                                                                                                                                                                                                        | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | The multicomponent antirestriction system of phage P1 is linked to capsid morphogenesis. <i>Molecular Microbiology</i> , 2017, 105, 399-412.                                                                                   | 2.5  | 33        |
| 38 | Mass spectrometric analysis of putative capa-gene products in <i>Musca domestica</i> and <i>Neobellieria bullata</i> . <i>Peptides</i> , 2003, 24, 1487-1491.                                                                  | 2.4  | 28        |
| 39 | Autoinducer AI-2 Is Involved in Regulating a Variety of Cellular Processes in <i>Salmonella</i> Typhimurium. <i>Foodborne Pathogens and Disease</i> , 2008, 5, 147-153.                                                        | 1.8  | 28        |
| 40 | A protumorigenic secretory pathway activated by p53 deficiency in lung adenocarcinoma. <i>Journal of Clinical Investigation</i> , 2021, 131, .                                                                                 | 8.2  | 25        |
| 41 | Utility of CE-MS Data in Protein Identification. <i>Analytical Chemistry</i> , 2007, 79, 3850-3855.                                                                                                                            | 6.5  | 23        |
| 42 | Grouping of Petroleum Substances as Example UVCBs by Ion Mobility-Mass Spectrometry to Enable Chemical Composition-Based Read-Across. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7197-7207.                     | 10.0 | 23        |
| 43 | Regulation of Abiotic Stress Signalling by Arabidopsis C-Terminal Domain Phosphatase-Like 1 Requires Interaction with a K-Homology Domain-Containing Protein. <i>PLoS ONE</i> , 2013, 8, e80509.                               | 2.5  | 23        |
| 44 | Identification of PVK/CAP2b neuropeptides from single neurohemal organs of the stable fly and horn fly via MALDI-TOF/TOF tandem mass spectrometry. <i>Peptides</i> , 2006, 27, 521-526.                                        | 2.4  | 22        |
| 45 | A novel approach to collision-induced dissociation (CID) for ion mobility-mass spectrometry experiments. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 907-914.                                     | 2.8  | 22        |
| 46 | Ion Mobility-Mass Spectrometer Interface for Collisional Activation of Mobility Separated Ions. <i>Analytical Chemistry</i> , 2009, 81, 618-624.                                                                               | 6.5  | 22        |
| 47 | Identification of the first neuropeptides from the CNS of Hemiptera: CAPA peptides of the southern green stinkbug <i>Nezara viridula</i> (L.). <i>Peptides</i> , 2006, 27, 2670-2677.                                          | 2.4  | 21        |
| 48 | Differential Expression of Proteins in <i>Listeria monocytogenes</i> Under Thermotolerance-Inducing, Heat Shock, and Prolonged Heat Shock Conditions. <i>Foodborne Pathogens and Disease</i> , 2009, 6, 1133-1140.             | 1.8  | 21        |
| 49 | Crystal Structure of <i>Mycobacterium tuberculosis</i> Polyketide Synthase 11 (PKS11) Reveals Intermediates in the Synthesis of Methyl-branched Alkylpyrones. <i>Journal of Biological Chemistry</i> , 2013, 288, 16484-16494. | 3.4  | 21        |
| 50 | <i>Arabidopsis</i> CPL4 is an essential C-terminal domain phosphatase that suppresses xenobiotic stress responses. <i>Plant Journal</i> , 2014, 80, 27-39.                                                                     | 5.7  | 21        |
| 51 | Fluorescent Probes for Tracking the Transfer of Iron-Sulfur Cluster and Other Metal Cofactors in Biosynthetic Reaction Pathways. <i>Journal of the American Chemical Society</i> , 2015, 137, 390-398.                         | 13.7 | 21        |
| 52 | The EMT activator ZEB1 accelerates endosomal trafficking to establish a polarity axis in lung adenocarcinoma cells. <i>Nature Communications</i> , 2021, 12, 6354.                                                             | 12.8 | 20        |
| 53 | Identification of proteins to predict the molecular basis for the observed gender susceptibility in a rat model of alcoholic steatohepatitis by 2D gel proteomics. <i>Proteomics</i> , 2008, 8, 4327-4337.                     | 2.2  | 18        |
| 54 | A cocrystal structure of dengue capsid protein in complex of inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17992-18001.                                       | 7.1  | 18        |

| #  | ARTICLE                                                                                                                                                                                                                                                | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Contextual cues from cancer cells govern cancer-associated fibroblast heterogeneity. <i>Cell Reports</i> , 2021, 35, 109009.                                                                                                                           | 6.4  | 18        |
| 56 | Two capa-genes are expressed in the neuroendocrine system of <i>Rhodnius prolixus</i> . <i>Peptides</i> , 2010, 31, 408-411.                                                                                                                           | 2.4  | 17        |
| 57 | CRISPR-Cas9 mediated genetic engineering for the purification of the endogenous integrator complex from mammalian cells. <i>Protein Expression and Purification</i> , 2016, 128, 101-108.                                                              | 1.3  | 17        |
| 58 | Neuropeptides in Heteroptera: Identification of allatotropin-related peptide and tachykinin-related peptides using MALDI-TOF mass spectrometry. <i>Peptides</i> , 2009, 30, 483-488.                                                                   | 2.4  | 16        |
| 59 | p53 loss activates prometastatic secretory vesicle biogenesis in the Golgi. <i>Science Advances</i> , 2021, 7, .                                                                                                                                       | 10.3 | 15        |
| 60 | Fetal membrane extracellular vesicle profiling reveals distinct pathways induced by infection and inflammation in vitro. <i>American Journal of Reproductive Immunology</i> , 2020, 84, e13282.                                                        | 1.2  | 14        |
| 61 | Poly(ADP-ribose) polymerase 1 regulates mitochondrial DNA repair in an NAD-dependent manner. <i>Journal of Biological Chemistry</i> , 2021, 296, 100309.                                                                                               | 3.4  | 14        |
| 62 | Proteomic Analysis to Identify the Role of LuxS/AI-2 Mediated Protein Expression in <i>Escherichia coli</i> O157:H7. <i>Foodborne Pathogens and Disease</i> , 2007, 4, 463-471.                                                                        | 1.8  | 13        |
| 63 | A scalable lysyl hydroxylase 2 expression system and luciferase-based enzymatic activity assay. <i>Archives of Biochemistry and Biophysics</i> , 2017, 618, 45-51.                                                                                     | 3.0  | 13        |
| 64 | Self-Perceptions of Young Adults Who Survived Severe Childhood Burn Injury. <i>Journal of Burn Care and Research</i> , 2013, 34, 394-402.                                                                                                              | 0.4  | 12        |
| 65 | JAK2 regulates Nav1.6 channel function via FGF14Y158 phosphorylation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118786.                                                                                             | 4.1  | 12        |
| 66 | Effect of uncoupling protein $\beta$ expression on 3T3 $\beta$ 1 adipocyte gene expression. <i>FEBS Letters</i> , 2007, 581, 5865-5871.                                                                                                                | 2.8  | 10        |
| 67 | Mechanistic Consequences of Chiral Radical Clock Probes: Analysis of the Mononuclear Non-Heme Iron Enzyme HppE with 2-Hydroxy-3-methylenecyclopropyl Radical Clock Substrates. <i>Journal of the American Chemical Society</i> , 2014, 136, 2944-2947. | 13.7 | 10        |
| 68 | Ion $\beta$ Ion Charge Reduction Addresses Multiple Challenges Common to Denaturing Intact Mass Analysis. <i>Analytical Chemistry</i> , 2022, 94, 3930-3938.                                                                                           | 6.5  | 10        |
| 69 | Annexin A2 depletion exacerbates the intracerebral microhemorrhage induced by acute rickettsia and Ebola virus infections. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0007960.                                                               | 3.0  | 9         |
| 70 | Negative Ion Fragmentation of Cysteic Acid Containing Peptides: Cysteic Acid as a Fixed Negative Charge. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1622-1630.                                                           | 2.8  | 8         |
| 71 | AhR promotes phosphorylation of ARNT isoform 1 in human T cell malignancies as a switch for optimal AhR activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2114336119.                     | 7.1  | 8         |
| 72 | De Novo Design and Spectroscopic Characterization of a Dinucleating Copper-Binding Pentadecapeptide. <i>Inorganic Chemistry</i> , 2006, 45, 472-474.                                                                                                   | 4.0  | 7         |

| #  | ARTICLE                                                                                                                                                                                                                                                  | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | High-throughput method for on-target performic acid oxidation of MALDI-deposited samples. <i>Journal of Mass Spectrometry</i> , 2010, 45, 157-166.                                                                                                       | 1.6  | 7         |
| 74 | Studies of Histidine As a Suitable Isoelectric Buffer for Tryptic Digestion and Isoelectric Trapping Fractionation Followed by Capillary Electrophoresis-Mass Spectrometry for Proteomic Analysis. <i>Analytical Chemistry</i> , 2011, 83, 8108-8114.    | 6.5  | 7         |
| 75 | Neuropeptides of the cotton fleahopper, <i>Pseudatomoscelis seriatus</i> (Reuter). <i>Peptides</i> , 2012, 34, 39-43.                                                                                                                                    | 2.4  | 5         |
| 76 | CAPA-gene products in the haematophagous sandfly <i>Phlebotomus papatasi</i> (Scopoli) - vector for leishmaniasis disease. <i>Peptides</i> , 2013, 41, 2-7.                                                                                              | 2.4  | 5         |
| 77 | Definition of germ layer cell lineage alternative splicing programs reveals a critical role for Quaking in specifying cardiac cell fate. <i>Nucleic Acids Research</i> , 2022, 50, 5313-5334.                                                            | 14.5 | 5         |
| 78 | Efficient Electrophoretic Method to Remove Neutral Additives from Protein Solutions Followed by Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2011, 83, 2814-2818.                                                                           | 6.5  | 4         |
| 79 | Space Radiation-Induced Alterations in the Hippocampal Ubiquitin-Proteome System. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7713.                                                                                                   | 4.1  | 4         |
| 80 | Role of neuropeptide neuromedin U in the nucleus accumbens shell in cocaine self-administration in male rats. <i>Neuropsychopharmacology</i> , 2022, 47, 1875-1882.                                                                                      | 5.4  | 4         |
| 81 | Physicochemical and Biological Properties of Membrane Vesicles Derived from Human Term Placentas. <i>Journal of Biomedical Nanotechnology</i> , 2022, 18, 589-599.                                                                                       | 1.1  | 3         |
| 82 | Effect of Cysteic Acid Position on the Negative Ion Fragmentation of Proteolytic Derived Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 31-37.                                                                       | 2.8  | 2         |
| 83 | The nickel and iron-sulfur centers in carbon monoxide dehydrogenase. <i>Journal of Inorganic Biochemistry</i> , 1995, 59, 634.                                                                                                                           | 3.5  | 1         |
| 84 | Esomeprazole covalently interacts with the cardiovascular enzyme dimethylarginine dimethylaminohydrolase: Insights into the cardiovascular risk of proton pump inhibitors. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130149. | 2.4  | 1         |