William K Russell

List of Publications by Year
in descending order

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	Role of neuropeptide neuromedin U in the nucleus accumbens shell in cocaine self-administration in male rats. Neuropsychopharmacology, 2022, 47, 1875-1882.	5.4	4
2	Ionâ€“Ion Charge Reduction Addresses Multiple Challenges Common to Denaturing Intact Mass Analysis. Analytical Chemistry, 2022, 94, 3930-3938.	6.5	10
3	AhR promotes phosphorylation of ARNT isoform 1 in human T cell malignancies as a switch for optimal AhR activity. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114336119.	7.1	8
4	Physicochemical and Biological Properties of Membrane Vesicles Derived from Human Term Placentas. Journal of Biomedical Nanotechnology, 2022, 18, 589-599.	1.1	3
5	Definition of germ layer cell lineage alternative splicing programs reveals a critical role for Quaking in specifying cardiac cell fate. Nucleic Acids Research, 2022, 50, 5313-5334.	14.5	5
6	Esomeprazole covalently interacts with the cardiovascular enzyme dimethylarginine dimethylaminohydrolase: Insights into the cardiovascular risk of proton pump inhibitors. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130149.	2.4	1
7	Poly(ADP-ribose) polymerase 1 regulates mitochondrial DNA repair in an NAD-dependent manner. Journal of Biological Chemistry, 2021, 296, 100309.	3.4	14
8	Contextual cues from cancer cells govern cancer-associated fibroblast heterogeneity. Cell Reports, 2021, 35, 109009.	6.4	18
9	An atlas of alternative polyadenylation quantitative trait loci contributing to complex trait and disease heritability. Nature Genetics, 2021, 53, 994-1005.	21.4	85
10	p53 loss activates prometastatic secretory vesicle biogenesis in the Golgi. Science Advances, 2021, 7, .	10.3	15
11	Space Radiation-Induced Alterations in the Hippocampal Ubiquitin-Proteome System. International Journal of Molecular Sciences, 2021, 22, 7713.	4.1	4
12	A protumorigenic secretory pathway activated by p53 deficiency in lung adenocarcinoma. Journal of Clinical Investigation, 2021, 131, .	8.2	25
13	The EMT activator ZEB1 accelerates endosomal trafficking to establish a polarity axis in lung adenocarcinoma cells. Nature Communications, 2021, 12, 6354.	12.8	20
14	Oxidative damage diminishes mitochondrial DNA polymerase replication fidelity. Nucleic Acids Research, 2020, 48, 817-829.	14.5	69
15	Integrator Recruits Protein Phosphatase 2A to Prevent Pause Release and Facilitate Transcription Termination. Molecular Cell, 2020, 80, 345-358.e9.	9.7	109
16	Annexin A2 depletion exacerbates the intracerebral microhemorrhage induced by acute rickettsia and Ebola virus infections. PLoS Neglected Tropical Diseases, 2020, 14, e0007960.	3.0	9
17	A cocrystal structure of dengue capsid protein in complex of inhibitor. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17992-18001.	7.1	18
18	JAK2 regulates Nav1.6 channel function via FGF14Y158 phosphorylation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118786.	4.1	12

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19	Fetal membrane extracellular vesicle profiling reveals distinct pathways induced by infection and inflammation in vitro. American Journal of Reproductive Immunology, 2020, 84, e13282.	1.2	14
20	PI4KIIIÎ² is a therapeutic target in chromosome 1qâ€“amplified lung adenocarcinoma. Science Translational Medicine, 2020, 12, .	12.4	41
21	Peptidoglycan-Associated Cyclic Lipopeptide Disrupts Viral Infectivity. Journal of Virology, 2019, 93, .	3.4	47
22	Purification and characterization of Arabidopsis thaliana oligosaccharyltransferase complexes from the native host: a protein superâ€expression system for structural studies. Plant Journal, 2018, 94, 131-145.	5.7	37
23	Influence of water and enzyme SpnF on the dynamics and energetics of the ambimodal [6+4]/[4+2] cycloaddition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E848-E855.	7.1	57
24	A scalable lysyl hydroxylase 2 expression system and luciferase-based enzymatic activity assay. Archives of Biochemistry and Biophysics, 2017, 618, 45-51.	3.0	13
25	Grouping of Petroleum Substances as Example UVCBs by Ion Mobility-Mass Spectrometry to Enable Chemical Composition-Based Read-Across. Environmental Science & Technology, 2017, 51, 7197-7207.	10.0	23
26	Global Reprogramming of Host Kinase Signaling in Response to Fungal Infection. Cell Host and Microbe, 2017, 21, 637-649.e6.	11.0	44
27	The multicomponent antirestriction system of phage P1 is linked to capsid morphogenesis. Molecular Microbiology, 2017, 105, 399-412.	2.5	33
28	Investigation of the mechanism of the SpnF-catalyzed [4+2]-cycloaddition reaction in the biosynthesis of spinosyn A. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10408-10413.	7.1	38
29	CRISPR-Cas9 mediated genetic engineering for the purification of the endogenous integrator complex from mammalian cells. Protein Expression and Purification, 2016, 128, 101-108.	1.3	17
30	Fluorescent Probes for Tracking the Transfer of Ironâ€“Sulfur Cluster and Other Metal Cofactors in Biosynthetic Reaction Pathways. Journal of the American Chemical Society, 2015, 137, 390-398.	13.7	21
31	Arabidopsis CPL4 is an essential Câ€terminal domain phosphatase that suppresses xenobiotic stress responses. Plant Journal, 2014, 80, 27-39.	5.7	21
32	Mechanistic Consequences of Chiral Radical Clock Probes: Analysis of the Mononuclear Non-Heme Iron Enzyme HppE with 2-Hydroxy-3-methylenecyclopropyl Radical Clock Substrates. Journal of the American Chemical Society, 2014, 136, 2944-2947.	13.7	10
33	Combining Chemical Labeling, Bottom-Up and Top-Down Ion-Mobility Mass Spectrometry To Identify Metal-Binding Sites of Partially Metalated Metallothionein. Analytical Chemistry, 2013, 85, 3229-3237.	6.5	43
34	CAPA-gene products in the haematophagous sandfly Phlebotomus papatasi (Scopoli) â€“ vector for leishmaniasis disease. Peptides, 2013, 41, 2-7.	2.4	5
35	Self-Perceptions of Young Adults Who Survived Severe Childhood Burn Injury. Journal of Burn Care and Research, 2013, 34, 394-402.	0.4	12
36	Crystal Structure of Mycobacterium tuberculosis Polyketide Synthase 11 (PKS11) Reveals Intermediates in the Synthesis of Methyl-branched Alkylpyrones. Journal of Biological Chemistry, 2013, 288, 16484-16494.	3.4	21

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37	Regulation of Abiotic Stress Signalling by Arabidopsis C-Terminal Domain Phosphatase-Like 1 Requires Interaction with a K-Homology Domain-Containing Protein. PLoS ONE, 2013, 8, e80509.	2.5	23
38	Neuropeptides of the cotton fleahopper, Pseudatomoscelis seriatus (Reuter). Peptides, 2012, 34, 39-43.	2.4	5
39	Imaging secondary metabolism of Streptomyces sp. Mg1 during cellular lysis and colony degradation of competing Bacillus subtilis. Antonie Van Leeuwenhoek, 2012, 102, 435-445.	1.7	50
40	The de novo engineering of pyrrolysyl-tRNA synthetase for genetic incorporation of l-phenylalanine and its derivatives. Molecular BioSystems, 2011, 7, 714.	2.9	76
41	Efficient Electrophoretic Method to Remove Neutral Additives from Protein Solutions Followed by Mass Spectrometry Analysis. Analytical Chemistry, 2011, 83, 2814-2818.	6.5	4
42	Studies of Histidine As a Suitable Isoelectric Buffer for Tryptic Digestion and Isoelectric Trapping Fractionation Followed by Capillary Electrophoresisâ€“Mass Spectrometry for Proteomic Analysis. Analytical Chemistry, 2011, 83, 8108-8114.	6.5	7
43	Proteomic Analysis of 3T3-L1 Adipocyte Mitochondria during Differentiation and Enlargement. Journal of Proteome Research, 2011, 10, 4692-4702.	3.7	48
44	Effect of Cysteic Acid Position on the Negative Ion Fragmentation of Proteolytic Derived Peptides. Journal of the American Society for Mass Spectrometry, 2011, 22, 31-37.	2.8	2
45	Negative Ion Fragmentation of Cysteic Acid Containing Peptides: Cysteic Acid as a Fixed Negative Charge. Journal of the American Society for Mass Spectrometry, 2011, 22, 1622-1630.	2.8	8
46	Genomes and Characterization of Phages Bcep22 and BcepIL02, Founders of a Novel Phage Type in Burkholderia cenocepacia. Journal of Bacteriology, 2011, 193, 5300-5313.	2.2	52
47	Highâ€throughput method for onâ€target performic acid oxidation of MALDIâ€deposited samples. Journal of Mass Spectrometry, 2010, 45, 157-166.	1.6	7
48	Genetic incorporation of an aliphatic keto-containing amino acid into proteins for their site-specific modifications. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 878-880.	2.2	56
49	Neuropeptidomics of the Mosquito Aedes aegypti. Journal of Proteome Research, 2010, 9, 2006-2015.	3.7	141
50	Two capa-genes are expressed in the neuroendocrine system of Rhodnius prolixus. Peptides, 2010, 31, 408-411.	2.4	17
51	A genetically encoded photocaged NÎµ-methyl-l-lysine. Molecular BioSystems, 2010, 6, 1557.	2.9	72
52	A convenient method for genetic incorporation of multiple noncanonical amino acids into one protein in Escherichia coli. Molecular BioSystems, 2010, 6, 683.	2.9	56
53	A novel approach to collision-induced dissociation (CID) for ion mobility-mass spectrometry experiments. Journal of the American Society for Mass Spectrometry, 2009, 20, 907-914.	2.8	22
54	Differential Expression of Proteins inListeria monocytogenesUnder Thermotolerance-Inducing, Heat Shock, and Prolonged Heat Shock Conditions. Foodborne Pathogens and Disease, 2009, 6, 1133-1140.	1.8	21

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55	Ion Mobility-Mass Spectrometer Interface for Collisional Activation of Mobility Separated Ions. Analytical Chemistry, 2009, 81, 618-624.	6.5	22
56	Liver Proteome Analysis in a Rodent Model of Alcoholic Steatosis. Journal of Proteome Research, 2009, 8, 1663-1671.	3.7	56
57	Neuropeptides in Heteroptera: Identification of allatotropin-related peptide and tachykinin-related peptides using MALDI-TOF mass spectrometry. Peptides, 2009, 30, 483-488.	2.4	16
58	Identification of proteins to predict the molecular basis for the observed gender susceptibility in a rat model of alcoholic steatohepatitis by 2â€Ð gel proteomics. Proteomics, 2008, 8, 4327-4337.	2.2	18
59	Silver Nanoparticles as Selective Ionization Probes for Analysis of Olefins by Mass Spectrometry. Analytical Chemistry, 2008, 80, 6796-6799.	6.5	121
60	Comparative peptidomics of four related hemipteran species: Pyrokinins, myosuppressin, corazonin, adipokinetic hormone, sNPF, and periviscerokinins. Peptides, 2008, 29, 162-167.	2.4	43
61	Autoinducer AI-2 Is Involved in Regulating a Variety of Cellular Processes inSalmonellaTyphimurium. Foodborne Pathogens and Disease, 2008, 5, 147-153.	1.8	28
62	Biochemical and Functional Analyses of the Human Toll-like Receptor 3 Ectodomain. Journal of Biological Chemistry, 2007, 282, 7668-7678.	3.4	59
63	Corazonin in insects. Peptides, 2007, 28, 3-10.	2.4	66
64	Effect of uncoupling proteinâ€1 expression on 3T3â€L1 adipocyte gene expression. FEBS Letters, 2007, 581, 5865-5871.	2.8	10
65	Proteomic Analysis to Identify the Role of LuxS/AI-2 Mediated Protein Expression in Escherichia coli O157:H7. Foodborne Pathogens and Disease, 2007, 4, 463-471.	1.8	13
66	Utility of CEâ^'MS Data in Protein Identification. Analytical Chemistry, 2007, 79, 3850-3855.	6.5	23
67	De Novo Design and Spectroscopic Characterization of a Dinucleating Copper-Binding Pentadecapeptide. Inorganic Chemistry, 2006, 45, 472-474.	4.0	7
68	Identification of PVK/CAP2b neuropeptides from single neurohemal organs of the stable fly and horn fly via MALDI-TOF/TOF tandem mass spectrometry. Peptides, 2006, 27, 521-526.	2.4	22
69	Identification of the first neuropeptides from the CNS of Hemiptera: CAPA peptides of the southern green stinkbug Nezara viridula (L.). Peptides, 2006, 27, 2670-2677.	2.4	21
70	Isolation and characterization of two disintegrins inhibiting ADP-induced human platelet aggregation from the venom of Crotalus scutulatus scutulatus (Mohave Rattlesnake). Toxicology and Applied Pharmacology, 2006, 212, 59-68.	2.8	34
71	Functional Analysis of RNA Binding by the Hepatitis C Virus RNA-dependent RNA Polymerase. Journal of Biological Chemistry, 2005, 280, 38011-38019.	3.4	37
72	A Universal Strategy for Proteomic Studies of SUMO and Other Ubiquitin-like Modifiers. Molecular and Cellular Proteomics, 2005, 4, 56-72.	3.8	195

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73	Identification of tick periviscerokinin, the first neurohormone of Ixodidae: Single cell analysis by means of MALDI-TOF/TOF mass spectrometry. Biochemical and Biophysical Research Communications, 2005, 338, 1860-1864.	2.1	43
74	Mass spectrometric assignment of Leu/Ile in neuropeptides from single neurohemal organ preparations of insects. Peptides, 2005, 26, 2151-2156.	2.4	35
75	Trafficking of ODV-E66 is mediated via a sorting motif and other viral proteins: Facilitated trafficking to the inner nuclear membrane. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8372-8377.	7.1	83
76	Peptidomics of CNS-associated neurohemal systems of adultDrosophila melanogaster: A mass spectrometric survey of peptides from individual flies. Journal of Comparative Neurology, 2004, 474, 379-392.	1.6	170
77	A High Repetition Rate (1 kHz) Microcrystal Laser for High Throughput Atmospheric Pressure MALDI-Quadrupole-Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2003, 75, 648-654.	6.5	38
78	Mass spectrometric analysis of putative capa-gene products in Musca domestica and Neobellieria bullata. Peptides, 2003, 24, 1487-1491.	2.4	28
79	Accurate mass measurement of DNA oligonucleotide ions using high-resolution time-of-flight mass spectrometry. Journal of Mass Spectrometry, 2002, 37, 357-371.	1.6	41
80	Proteolysis in Mixed Organicâ^'Aqueous Solvent Systems:â€‰ Applications for Peptide Mass Mapping Using Mass Spectrometry. Analytical Chemistry, 2001, 73, 2682-2685.	6.5	266
81	Pro-sterol Carrier Protein-2. Journal of Biological Chemistry, 2000, 275, 25547-25555.	3.4	56
82	Improvement of Resolution, Mass Accuracy, and Reproducibility in Reflected Mode DE-MALDI-TOF Analysis of DNA Using Fast Evaporationâ^'Overlayer Sample Preparations. Analytical Chemistry, 2000, 72, 3860-3866.	6.5	42
83	Spectroscopic, Redox, and Structural Characterization of the Ni-Labile and Nonlabile Forms of the Acetyl-CoA Synthase Active Site of Carbon Monoxide Dehydrogenase. Journal of the American Chemical Society, 1998, 120, 7502-7510.	13.7	67
84	The nickel and iron-sulfur centers in carbon monoxide dehydrogenase. Journal of Inorganic Biochemistry, 1995, 59, 634.	3.5	1