

Jennifer L Beck

List of Publications by Year in descending order

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73
papers

2,907
citations

136950

32
h-index

175258

52
g-index

77
all docs

77
docs citations

77
times ranked

3267
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospray ionization mass spectrometry of oligonucleotide complexes with drugs, metals, and proteins. <i>Mass Spectrometry Reviews</i> , 2001, 20, 61-87.	5.4	225
2	Telomeric G-quadruplexes are a substrate and site of localization for human telomerase. <i>Nature Communications</i> , 2015, 6, 7643.	12.8	213
3	Properties of a purple phosphatase from red kidney bean: a zinc-iron metalloenzyme. <i>BBA - Proteins and Proteomics</i> , 1986, 869, 61-68.	2.1	134
4	Improving recombinant Rubisco biogenesis, plant photosynthesis and growth by coexpressing its ancillary RAF1 chaperone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3564-3569.	7.1	105
5	DNA Replication Is the Target for the Antibacterial Effects of Nonsteroidal Anti-Inflammatory Drugs. <i>Chemistry and Biology</i> , 2014, 21, 481-487.	6.0	102
6	Observation of daunomycin and nogalamycin complexes with duplex DNA using electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 2489-2497.	1.5	95
7	Antibacterial activity of berberine-NorA pump inhibitor hybrids with a methylene ether linking group. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 3866-3872.	3.0	90
8	A direct proofreaderâ€œclamp interaction stabilizes the Pol III replicase in the polymerization mode. <i>EMBO Journal</i> , 2013, 32, 1322-1333.	7.8	85
9	Properties of the Fe(II)-Fe(III) derivative of red kidney bean purple phosphatase. Evidence for a binuclear zinc-iron center in the native enzyme. <i>Journal of the American Chemical Society</i> , 1988, 110, 3317-3318.	13.7	68
10	The Structure and Function of a Novel Glycerophosphodiesterase from <i>Enterobacter aerogenes</i> . <i>Journal of Molecular Biology</i> , 2007, 367, 1047-1062.	4.2	66
11	Enzymatically active zinc, copper and mercury derivatives of the one-iron form of pig allantoinic acid phosphatase. <i>BBA - Proteins and Proteomics</i> , 1984, 791, 357-363.	2.1	64
12	Flexibility revealed by the 1.85Å crystal structure of the $\hat{\nu}^2$ sliding-clamp subunit of <i>Escherichia coli</i> DNA polymerase III. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1192-1199.	2.5	64
13	Translational incorporation of L-3,4-dihydroxyphenylalanine into proteins. <i>FEBS Journal</i> , 2005, 272, 3162-3171.	4.7	64
14	Hydrolysis of the 5â€œ-p-Nitrophenyl Ester of TMP by the Proofreading Exonuclease ($\hat{\nu}$) Subunit of <i>Escherichia coli</i> DNA Polymerase IIIâ€œ. <i>Biochemistry</i> , 2002, 41, 5266-5275.	2.5	61
15	Putidaredoxin reduction of cytochrome P-450cam: dependence of electron transfer on the identity of putidaredoxin's C-terminal amino acid. <i>Journal of the American Chemical Society</i> , 1990, 112, 7396-7398.	13.7	57
16	Derivatives of the purple phosphatase from red kidney bean: Replacement of zinc with other divalent metal ions. <i>Inorganica Chimica Acta</i> , 1988, 153, 39-44.	2.4	56
17	A mass spectrometric investigation of the binding of gold antiarthritic agents and the metabolite $[\text{Au}(\text{CN})_2]^-$ to human serum albumin. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 559-570.	2.6	53
18	Direct observation of covalent adducts with Cys34 of human serum albumin using mass spectrometry. <i>Analytical Biochemistry</i> , 2004, 325, 326-336.	2.4	52

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19	Use of electrospray ionization mass spectrometry to study binding interactions between a replication terminator protein and DNA. <i>Protein Science</i> , 2002, 11, 147-157.	7.6	52
20	Positive ion electrospray ionization mass spectrometry of double-stranded DNA/drug complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2472-2480.	1.5	50
21	An Estrogen-Platinum Terpyridine Conjugate: DNA and Protein Binding and Cellular Delivery. <i>Chemistry - A European Journal</i> , 2006, 12, 8000-8013.	3.3	50
22	Discovery of Lead Compounds Targeting the Bacterial Sliding Clamp Using a Fragment-Based Approach. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2799-2806.	6.4	49
23	A comparison of the binding of metal complexes to duplex and quadruplex DNA. <i>Dalton Transactions</i> , 2008, , 1018.	3.3	47
24	Selectivity of an indolyl berberine derivative for tetrameric G-quadruplex DNA. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1759-1766.	1.5	45
25	Substrate-induced Assembly of Methanococcoides burtonioid-Ribulose-1,5-bisphosphate Carboxylase/Oxygenase Dimers into Decamers. <i>Journal of Biological Chemistry</i> , 2009, 284, 33876-33882.	3.4	44
26	Stabilization of Native Protein Fold by Intein-Mediated Covalent Cyclization. <i>Journal of Molecular Biology</i> , 2005, 346, 1095-1108.	4.2	42
27	Synthesis and characterisation of nickel Schiff base complexes containing the meso-1,2-diphenylethylenediamine moiety: selective interactions with a tetramolecular DNA quadruplex. <i>Dalton Transactions</i> , 2015, 44, 3136-3150.	3.3	42
28	An investigation into the interactions of gold nanoparticles and anti-arthritis drugs with macrophages, and their reactivity towards thioredoxin reductase. <i>Journal of Inorganic Biochemistry</i> , 2015, 142, 28-38.	3.5	42
29	Iron-containing acid phosphatases: Interaction of phosphate with the enzyme from pig allantoic fluid. <i>Biochemical and Biophysical Research Communications</i> , 1982, 108, 1643-1648.	2.1	39
30	A mechanism for the extension and unfolding of parallel telomeric G-quadruplexes by human telomerase at single-molecule resolution. <i>ELife</i> , 2020, 9, .	6.0	37
31	A mass spectrometric investigation of novel quadruplex DNA-selective berberine derivatives. <i>Chemical Communications</i> , 2010, 46, 6602.	4.1	35
32	NanoESI Mass Spectrometry of Rubisco and Rubisco Activase Structures and Their Interactions with Nucleotides and Sugar Phosphates. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1588-1601.	2.8	35
33	<i>Escherichia coli</i> Single-Stranded DNA-Binding Protein: NanoESI-MS Studies of Salt-Modulated Subunit Exchange and DNA Binding <i>Transactions</i> . <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 274-285.	2.8	34
34	Studies on the Catalytic Mechanism of Pig Purple Acid Phosphatase. <i>Archives of Biochemistry and Biophysics</i> , 1995, 319, 133-141.	3.0	32
35	A mass spectrometric investigation of non-covalent interactions between ruthenium complexes and DNA Electronic supplementary information (ESI) available: Table S1: Assignments for ions observed in ESI mass spectra of reaction mixtures containing ruthenium compounds and DNA. Table S2: Assignments for ions observed in ESI mass spectra of reaction mixtures containing either daunomycin or distamycin. DNA and ruthenium compounds. See http://www.rsc.org/suppdata/dt/b4/b406889k/ . <i>Dalton Transactions</i> , 2004, 2683.	3.3	29
36	Probing DNA selectivity of ruthenium metallointercalators using ESI mass spectrometry Electronic supplementary information (ESI) available: table of mass spectral assignments. See http://www.rsc.org/suppdata/cc/b2/b212132h/ . <i>Chemical Communications</i> , 2003, , 626-627.	4.1	28

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37	Bacterial Sliding Clamp Inhibitors that Mimic the Sequential Binding Mechanism of Endogenous Linear Motifs. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4693-4702.	6.4	28
38	Does the metal influence non-covalent binding of complexes to DNA?. <i>Dalton Transactions</i> , 2009, , 504-513.	3.3	27
39	Comparison of the binding stoichiometries of positively charged DNA-binding drugs using positive and negative ion electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1382-1391.	2.8	25
40	DNA-Binding Properties of Cosmomycin D, an Anthracycline with Two Trisaccharide Chains. <i>Journal of Antibiotics</i> , 2004, 57, 647-654.	2.0	25
41	Identification of bifunctional GA and AG intrastrand crosslinks formed between cisplatin and DNA. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 552-559.	3.5	25
42	Application of electrospray ionization mass spectrometry to study the hydrophobic interaction between the μ and λ subunits of DNA polymerase III. <i>Protein Science</i> , 2008, 13, 2878-2887.	7.6	24
43	Comparison of Mass Spectrometry and Other Techniques for Probing Interactions Between Metal Complexes and DNA. <i>Inorganic Chemistry</i> , 2008, 47, 6621-6632.	4.0	24
44	Use of electrospray ionization mass spectrometry to study binding interactions between a replication terminator protein and DNA. <i>Protein Science</i> , 2002, 11, 147-157.	7.6	24
45	Structural and Thermodynamic Dissection of Linear Motif Recognition by the <i>E. coli</i> Sliding Clamp. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 8665-8673.	6.4	23
46	BSD2 is a Rubisco-specific assembly chaperone, forms intermediary heterooligomeric complexes, and is nonlimiting to growth in tobacco. <i>Plant, Cell and Environment</i> , 2019, 42, 1287-1301.	5.7	22
47	Conditions for Analysis of Native Protein Structures Using Uniform Field Drift Tube Ion Mobility Mass Spectrometry and Characterization of Stable Calibrants for TWIM-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 256-267.	2.8	21
48	Electrospray ionisation mass spectrometric detection of weak non-covalent interactions in nogalamycin-DNA complexes. <i>Chemical Communications</i> , 2002, , 556-557.	4.1	20
49	A Single Subunit Directs the Assembly of the Escherichia coli DNA Sliding Clamp Loader. <i>Structure</i> , 2010, 18, 285-292.	3.3	20
50	Comparison of negative and positive ion electrospray ionization mass spectra of calmodulin and its complex with trifluoperazine. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2123-2130.	1.5	19
51	Effect of protein stabilization on charge state distribution in positive- and negative-ion electrospray ionization mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 1605-1611.	2.8	18
52	Binding studies of nNOS-active amphibian peptides and Ca^{2+} calmodulin, using negative ion electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3501-3509.	1.5	17
53	A study of Pt(II)-phenanthroline complex interactions with double-stranded and G-quadruplex DNA by ESI-MS, circular dichroism, and computational docking. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 429-440.	2.6	17
54	Irreversible inactivation of purple acid phosphatase by hydrogen peroxide and ascorbate. <i>Journal of Inorganic Biochemistry</i> , 1999, 73, 245-252.	3.5	14

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55	A mass spectrometric investigation of the ability of metal complexes to modulate transcription factor activity. <i>Chemical Communications</i> , 2009, , 5546.	4.1	14
56	Effect of structure variations on the quadruplex DNA binding ability of nickel Schiff base complexes. <i>Dalton Transactions</i> , 2018, 47, 13573-13591.	3.3	13
57	A new class of quadruplex DNA-binding nickel Schiff base complexes. <i>Dalton Transactions</i> , 2020, 49, 4843-4860.	3.3	12
58	Electrospray ionisation mass spectrometry of ruthenium and palladium complexes with oligonucleotides. <i>European Journal of Mass Spectrometry</i> , 1999, 5, 489.	0.7	11
59	Proteomic dissection of DNA polymerization. <i>Expert Review of Proteomics</i> , 2006, 3, 197-211.	3.0	11
60	Mass spectrometric investigation of the DNA-binding properties of an anthracycline with two trisaccharide chains. <i>Archives of Biochemistry and Biophysics</i> , 2008, 477, 348-355.	3.0	9
61	Characterisation of Anthracyclines from a Cosmomyacin D-Producing Species of <i>Streptomyces</i> by Collisionally-Activated Dissociation and Ion Mobility Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2009, 15, 73-81.	1.0	9
62	Multiple oligomeric forms of <i>Escherichia coli</i> DnaB helicase revealed by electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 132-140.	1.5	8
63	ESI-MS and thermal melting studies of nanoscale platinum(ii) metallomacrocycles with DNA. <i>Dalton Transactions</i> , 2010, 39, 11263.	3.3	8
64	Developments in Electrospray Ionization Mass Spectrometry of Non-Covalent DNA-Ligand Complexes. <i>Australian Journal of Chemistry</i> , 2011, 64, 705.	0.9	8
65	ESI-MS Investigation of an Equilibrium between a Bimolecular Quadruplex DNA and a Duplex DNA/RNA Hybrid. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1165-1173.	2.8	8
66	Assessment of the gas phase stability of quadruplex DNA using travelling wave ion mobility mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2011, 304, 195-203.	1.5	7
67	Crystal structures and biochemical characterization of DNA sliding clamps from three Gram-negative bacterial pathogens. <i>Journal of Structural Biology</i> , 2018, 204, 396-405.	2.8	6
68	Probing the DNA selectivity of ruthenium metallointercalators using ESI mass spectrometry. <i>Journal of Inorganic Biochemistry</i> , 2003, 96, 214.	3.5	2
69	Synthesis of an anthracyclinone bearing an unprecedented aromatic ring-fused bridgehead-hydroxylated bicyclo[3.1.1]heptanol. <i>Tetrahedron Letters</i> , 2007, 48, 7440-7443.	1.4	2
70	EX1 hydrogen-deuterium exchange in an all-helical protein and its cyclized derivative at neutral pH. <i>International Journal of Mass Spectrometry</i> , 2011, 302, 149-156.	1.5	0
71	Subunit exchange and DNA-binding dynamics of <i>Escherichia coli</i> single-stranded DNA binding protein (SSB). <i>FASEB Journal</i> , 2010, 24, .	0.5	0
72	Mass Spectrometric Studies of Non-Covalent Binding Interactions Between Metallointercalators and DNA. , 2011, , 187-213.		0

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73	Observation of daunomycin and nogalamycin complexes with duplex DNA using electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 2489-2497.	1.5	0