Jennifer L Beck

List of Publications by Year
in descending order

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	A new class of quadruplex DNA-binding nickel Schiff base complexes. Dalton Transactions, 2020, 49, 4843-4860.	3.3	12
2	A study of Pt(II)â€“phenanthroline complex interactions with double-stranded and G-quadruplex DNA by ESIâ€“MS, circular dichroism, and computational docking. Journal of Biological Inorganic Chemistry, 2020, 25, 429-440.	2.6	17
3	A mechanism for the extension and unfolding of parallel telomeric G-quadruplexes by human telomerase at single-molecule resolution. ELife, 2020, 9, .	6.0	37
4	BSD2 is a Rubiscoâ€specific assembly chaperone, forms intermediary heteroâ€oligomeric complexes, and is nonlimiting to growth in tobacco. Plant, Cell and Environment, 2019, 42, 1287-1301.	5.7	22
5	Conditions for Analysis of Native Protein Structures Using Uniform Field Drift Tube Ion Mobility Mass Spectrometry and Characterization of Stable Calibrants for TWIM-MS. Journal of the American Society for Mass Spectrometry, 2019, 30, 256-267.	2.8	21
6	Crystal structures and biochemical characterization of DNA sliding clamps from three Gram-negative bacterial pathogens. Journal of Structural Biology, 2018, 204, 396-405.	2.8	6
7	Effect of structure variations on the quadruplex DNA binding ability of nickel Schiff base complexes. Dalton Transactions, 2018, 47, 13573-13591.	3.3	13
8	ESI-MS Investigation of an Equilibrium between a Bimolecular Quadruplex DNA and a Duplex DNA/RNA Hybrid. Journal of the American Society for Mass Spectrometry, 2015, 26, 1165-1173.	2.8	8
9	Synthesis and characterisation of nickel Schiff base complexes containing the meso-1,2-diphenylethylenediamine moiety: selective interactions with a tetramolecular DNA quadruplex. Dalton Transactions, 2015, 44, 3136-3150.	3.3	42
10	Improving recombinant Rubisco biogenesis, plant photosynthesis and growth by coexpressing its ancillary RAF1 chaperone. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3564-3569.	7.1	105
11	Bacterial Sliding Clamp Inhibitors that Mimic the Sequential Binding Mechanism of Endogenous Linear Motifs. Journal of Medicinal Chemistry, 2015, 58, 4693-4702.	6.4	28
12	Telomeric G-quadruplexes are a substrate and site of localization for human telomerase. Nature Communications, 2015, 6, 7643.	12.8	213
13	An investigation into the interactions of gold nanoparticles and anti-arthritic drugs with macrophages, and their reactivity towards thioredoxin reductase. Journal of Inorganic Biochemistry, 2015, 142, 28-38.	3.5	42
14	Discovery of Lead Compounds Targeting the Bacterial Sliding Clamp Using a Fragment-Based Approach. Journal of Medicinal Chemistry, 2014, 57, 2799-2806.	6.4	49
15	DNA Replication Is the Target for the Antibacterial Effects of Nonsteroidal Anti-Inflammatory Drugs. Chemistry and Biology, 2014, 21, 481-487.	6.0	102
16	Structural and Thermodynamic Dissection of Linear Motif Recognition by the E. coli Sliding Clamp. Journal of Medicinal Chemistry, 2013, 56, 8665-8673.	6.4	23
17	Escherichia coli Single-Stranded DNA-Binding Protein: NanoESI-MS Studies of Salt-Modulated Subunit Exchange and DNA Binding Transactions. Journal of the American Society for Mass Spectrometry, 2013, 24, 274-285.	2.8	34
18	A direct proofreaderâ€“clamp interaction stabilizes the Pol III replicase in the polymerization mode. EMBO Journal, 2013, 32, 1322-1333.	7.8	85

#	Article	IF	Citations
19	NanoESI Mass Spectrometry of Rubisco and Rubisco Activase Structures and Their Interactions with Nucleotides and Sugar Phosphates. Journal of the American Society for Mass Spectrometry, 2011, 22, 1588-1601.	2.8	35
20	EX1 hydrogenâ€“deuterium exchange in an all-helical protein and its cyclized derivative at neutral pH. International Journal of Mass Spectrometry, 2011, 302, 149-156.	1.5	0
21	Assessment of the gas phase stability of quadruplex DNA using travelling wave ion mobility mass spectrometry. International Journal of Mass Spectrometry, 2011, 304, 195-203.	1.5	7
22	Developments in Electrospray Ionization Mass Spectrometry of Non-Covalent DNAâ€“Ligand Complexes. Australian Journal of Chemistry, 2011, 64, 705.	0.9	8
23	Mass Spectrometric Studies of Non-Covalent Binding Interactions Between Metallointercalators and DNA. , 2011, , 187-213.		0
24	A Single Subunit Directs the Assembly of the Escherichia coli DNA Sliding Clamp Loader. Structure, 2010, 18, 285-292.	3.3	20
25	ESI-MS and thermal melting studies of nanoscale platinum(ii) metallomacrocycles with DNA. Dalton Transactions, 2010, 39, 11263.	3.3	8
26	A mass spectrometric investigation of novel quadruplex DNA-selective berberine derivatives. Chemical Communications, 2010, 46, 6602.	4.1	35
27	Subunit exchange and DNAâ€binding dynamics of Escherichia coli singleâ€stranded DNA binding protein (SSB). FASEB Journal, 2010, 24, .	0.5	0
28	Substrate-induced Assembly of Methanococcoides burtoniid-Ribulose-1,5-bisphosphate Carboxylase/Oxygenase Dimers into Decamers. Journal of Biological Chemistry, 2009, 284, 33876-33882.	3.4	44
29	Antibacterial activity of berberine-NorA pump inhibitor hybrids with a methylene ether linking group. Bioorganic and Medicinal Chemistry, 2009, 17, 3866-3872.	3.0	90
30	A mass spectrometric investigation of the ability of metal complexes to modulate transcription factor activity. Chemical Communications, 2009, , 5546.	4.1	14
31	Does the metal influence non-covalent binding of complexes to DNA?. Dalton Transactions, 2009, , 504-513.	3.3	27
32	Characterisation of Anthracyclines from a Cosmomycin D-Producing Species of Streptomyces by Collisionally-Activated Dissociation and Ion Mobility Mass Spectrometry. European Journal of Mass Spectrometry, 2009, 15, 73-81.	1.0	9
33	Binding studies of nNOSâ€active amphibian peptides and Ca²⁺ calmodulin, using negative ion electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 3501-3509.	1.5	17
34	Application of electrospray ionization mass spectrometry to study the hydrophobic interaction between the Îµ and Î¸ subunits of DNA polymerase III. Protein Science, 2008, 13, 2878-2887.	7.6	24
35	Mass spectrometric investigation of the DNA-binding properties of an anthracycline with two trisaccharide chains. Archives of Biochemistry and Biophysics, 2008, 477, 348-355.	3.0	9
36	A comparison of the binding of metal complexes to duplex and quadruplex DNA. Dalton Transactions, 2008, , 1018.	3.3	47

#	Article	IF	Citations
37	Comparison of Mass Spectrometry and Other Techniques for Probing Interactions Between Metal Complexes and DNA. Inorganic Chemistry, 2008, 47, 6621-6632.	4.0	24
38	The Structure and Function of a Novel Glycerophosphodiesterase from Enterobacter aerogenes. Journal of Molecular Biology, 2007, 367, 1047-1062.	4.2	66
39	Synthesis of an anthracyclinone bearing an unprecedented aromatic ring-fused bridgehead-hydroxylated bicyclo[3.1.1]heptanol. Tetrahedron Letters, 2007, 48, 7440-7443.	1.4	2
40	Multiple oligomeric forms ofEscherichia coli DnaB helicase revealed by electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 132-140.	1.5	8
41	Selectivity of an indolyl berberine derivative for tetrameric G-quadruplex DNA. Rapid Communications in Mass Spectrometry, 2007, 21, 1759-1766.	1.5	45
42	Effect of protein stabilization on charge state distribution in positive- and negative-ion electrospray ionization mass spectra. Journal of the American Society for Mass Spectrometry, 2007, 18, 1605-1611.	2.8	18
43	Proteomic dissection of DNA polymerization. Expert Review of Proteomics, 2006, 3, 197-211.	3.0	11
44	A mass spectrometric investigation of the binding of gold antiarthritic agents and the metabolite [Au(CN)2]â^' to human serum albumin. Journal of Biological Inorganic Chemistry, 2006, 11, 559-570.	2.6	53
45	An Estrogenâ€“Platinum Terpyridine Conjugate: DNA and Protein Binding and Cellular Delivery. Chemistry - A European Journal, 2006, 12, 8000-8013.	3.3	50
46	Identification of bifunctional GA and AG intrastrand crosslinks formed between cisplatin and DNA. Journal of Inorganic Biochemistry, 2005, 99, 552-559.	3.5	25
47	Translational incorporation of L-3,4-dihydroxyphenylalanine into proteins. FEBS Journal, 2005, 272, 3162-3171.	4.7	64
48	Comparison of negative and positive ion electrospray ionization mass spectra of calmodulin and its complex with trifluoperazine. Rapid Communications in Mass Spectrometry, 2005, 19, 2123-2130.	1.5	19
49	Stabilization of Native Protein Fold by Intein-Mediated Covalent Cyclization. Journal of Molecular Biology, 2005, 346, 1095-1108.	4.2	42
50	Direct observation of covalent adducts with Cys34 of human serum albumin using mass spectrometry. Analytical Biochemistry, 2004, 325, 326-336.	2.4	52
51	Comparison of the binding stoichiometries of positively charged DNA-binding drugs using positive and negative ion electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2004, 15, 1382-1391.	2.8	25
52	A mass spectrometric investigation of non-covalent interactions between ruthenium complexes and DNAElectronic 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/. Dalton Transactions, 2004, , 2683.	3.3	29
53	DNA-Binding Properties of Cosmomycin D, an Anthracycline with Two Trisaccharide Chains. Journal of Antibiotics, 2004, 57, 647-654.	2.0	25
54	Probing the DNA selectivity of ruthenium metallointercalators using ESI mass spectrometry. Journal of Inorganic Biochemistry, 2003, 96, 214.	3.5	2

#	Article	IF	Citations
55	Flexibility revealed by the 1.85â€…Ã… crystal structure of the Î² sliding-clamp subunit ofEscherichia coliDNA polymerase III. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1192-1199.	2.5	64
56	Probing DNA selectivity of ruthenium metallointercalators using ESI mass spectrometryElectronic supplementary information (ESI) available: table of mass spectral assignments. See http://www.rsc.org/suppdata/cc/b2/b212132h/. Chemical Communications, 2003, , 626-627.	4.1	28
57	Hydrolysis of the 5â€˜-p-Nitrophenyl Ester of TMP by the Proofreading Exonuclease (Îµ) Subunit ofEscherichia coliDNA Polymerase IIIâ€. Biochemistry, 2002, 41, 5266-5275.	2.5	61
58	Electrospray ionisation mass spectrometric detection of weak non-covalent interactions in nogalamycinâ€“DNA complexes. Chemical Communications, 2002, , 556-557.	4.1	20
59	Use of electrospray ionization mass spectrometry to study binding interactions between a replication terminator protein and DNA. Protein Science, 2002, 11, 147-157.	7.6	24
60	Use of electrospray ionization mass spectrometry to study binding interactions between a replication terminator protein and DNA. Protein Science, 2002, 11, 147-157.	7.6	52
61	Positive ion electrospray ionization mass spectrometry of double-stranded DNA/drug complexes. Rapid Communications in Mass Spectrometry, 2001, 15, 2472-2480.	1.5	50
62	Electrospray ionization mass spectrometry of oligonucleotide complexes with drugs, metals, and proteins. Mass Spectrometry Reviews, 2001, 20, 61-87.	5.4	225
63	Irreversible inactivation of purple acid phosphatase by hydrogen peroxide and ascorbate. Journal of Inorganic Biochemistry, 1999, 73, 245-252.	3.5	14
64	Observation of daunomycin and nogalamycin complexes with duplex DNA using electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 1999, 13, 2489-2497.	1.5	95
65	Electrospray ionisation mass spectrometry of ruthenium and palladium complexes with oligonucleotides. European Journal of Mass Spectrometry, 1999, 5, 489.	0.7	11
66	Observation of daunomycin and nogalamycin complexes with duplex DNA using electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 1999, 13, 2489-2497.	1.5	0
67	Studies on the Catalytic Mechanism of Pig Purple Acid Phosphatase. Archives of Biochemistry and Biophysics, 1995, 319, 133-141.	3.0	32
68	Putidaredoxin reduction of cytochrome P-450cam: dependence of electron transfer on the identity of putidaredoxin's C-terminal amino acid. Journal of the American Chemical Society, 1990, 112, 7396-7398.	13.7	57
69	Derivatives of the purple phosphatase from red kidney bean: Replacement of zinc with other divalent metal ions. Inorganica Chimica Acta, 1988, 153, 39-44.	2.4	56
70	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. Journal of the American Chemical Society, 1988, 110, 3317-3318.	13.7	68
71	Properties of a purple phosphatase from red kidney bean: a zinc-iron metalloenzyme. BBA - Proteins and Proteomics, 1986, 869, 61-68.	2.1	134
72	Enzymatically active zinc, copper and mercury derivatives of the one-iron form of pig allantoic fluid acid phosphatase. BBA - Proteins and Proteomics, 1984, 791, 357-363.	2.1	64

#	Article	IF	Citations
73	Iron-containing acid phosphatases: Interaction of phosphate with the enzyme from pig allantoic fluid. Biochemical and Biophysical Research Communications, 1982, 108, 1643-1648.	2.1	39