

Markus W Germann

List of Publications by Year in descending order

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92
papers

2,317
citations

172457

29
h-index

243625

44
g-index

95
all docs

95
docs citations

95
times ranked

2776
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Consistent Parameterization of DNA Residues for the Non-Polarizable AMBER Force Fields. <i>Life</i> , 2022, 12, 666.	2.4	0
2	A Single-Point Mutation in <scp>d</scp>-Arginine Dehydrogenase Unlocks a Transient Conformational State Resulting in Altered Cofactor Reactivity. <i>Biochemistry</i> , 2021, 60, 711-724.	2.5	7
3	Microwave-assisted synthesis and antibacterial propensity of Nâ€²-s-benzylidene-2-propylquinoline-4-carbohydrazide and Nâ€²-((s-1H-pyrrol-2-yl)methylene)-2-propylquinoline-4-carbohydrazide motifs. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1809-1820.	4.9	17
4	Intrinsic disorder controls two functionally distinct dimers of the master transcription factor PU.1. <i>Science Advances</i> , 2020, 6, eaay3178.	10.3	18
5	Second Generation G-Quadruplex Stabilizing Trimethine Cyanines. <i>Bioconjugate Chemistry</i> , 2019, 30, 2647-2663.	3.6	7
6	Substituting Inosine for Guanosine in DNA: Structural and Dynamic Consequences. <i>Natural Product Communications</i> , 2019, 14, 1934578X1985003.	0.5	2
7	Simplifying DNA NMR spectroscopy by silencing GH8 and AH8 resonances. <i>Journal of Molecular Structure</i> , 2018, 1166, 344-347.	3.6	1
8	NMR Structure Determination for Oligonucleotides. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2018, 72, 7.28.1-7.28.39.	0.5	7
9	Spectral and Hydrodynamic Analysis of West Nile Virus RNAâ€™Protein Interactions by Multiwavelength Sedimentation Velocity in the Analytical Ultracentrifuge. <i>Analytical Chemistry</i> , 2017, 89, 862-870.	6.5	24
10	First Structure of a Designed Minor Groove Binding Heterocyclic Cation that Specifically Recognizes Mixed DNA Base Pair Sequences. <i>Chemistry - A European Journal</i> , 2017, 23, 17612-17620.	3.3	15
11	Impact of modified ribose sugars on nucleic acid conformation and function. <i>Heterocyclic Communications</i> , 2017, 23, 155-165.	1.2	20
12	Multiple DNA-binding modes for the ETS family transcription factor PU.1. <i>Journal of Biological Chemistry</i> , 2017, 292, 16044-16054.	3.4	8
13	Expeditious Synthesis and Spectroscopic Characterization of 2-Methyl-3-substituted-quinazolin-4(3H)-one Derivatives. <i>Oriental Journal of Chemistry</i> , 2017, 33, 562-574.	0.3	5
14	Effect of methylation on the side-chain p<i>K</i>_avalue of arginine. <i>Protein Science</i> , 2016, 25, 479-486.	7.6	42
15	Imino proton NMR guides the reprogramming of Aâ€™T specific minor groove binders for mixed base pair recognition. <i>Nucleic Acids Research</i> , 2016, 44, 4519-4527.	14.5	17
16	Structural Impact of Single Ribonucleotide Residues in DNA. <i>ChemBioChem</i> , 2016, 17, 1968-1977.	2.6	15
17	Using NMR and molecular dynamics to link structure and dynamics effects of the universal base 8-aza, 7-deaza, N8 linked adenosine analog. <i>Nucleic Acids Research</i> , 2016, 44, 8576-8587.	14.5	7
18	Identification of the Catalytic Base for Alcohol Activation in Choline Oxidase. <i>Biochemistry</i> , 2015, 54, 413-421.	2.5	18

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19	The importance of fitting in: conformational preference of selenium 2â€² modifications in nucleosides and helical structures. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 289-297.	3.5	6
20	The smell of moulting: <i>N</i> -acetylglucosamino-1,5-lactone is a premoult biomarker and candidate component of the courtship pheromone in the urine of the blue crab, <i>Callinectes sapidus</i> . <i>Journal of Experimental Biology</i> , 2014, 217, 1286-96.	1.7	30
21	RNA intrusions change DNA elastic properties and structure. <i>Nanoscale</i> , 2014, 6, 10009-10017.	5.6	49
22	MD and NMR Analyses of Choline and TMA Binding to Duplex DNA: On the Origins of Aberrant Sequence-Dependent Stability by Alkyl Cations in Aqueous and Water-Free Solvents. <i>Journal of the American Chemical Society</i> , 2014, 136, 3075-3086.	13.7	44
23	Nonproteolytic Roles of 19S ATPases in Transcription of CIITA β Genes. <i>PLoS ONE</i> , 2014, 9, e91200.	2.5	8
24	Insight into the modulation of Shaw2 Kv channels by general anesthetics: Structural and functional studies of S4â€²-S5 linker and S6 C-terminal peptides in micelles by NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 595-601.	2.6	6
25	Selective G-Quadruplex DNA Recognition by a New Class of Designed Cyanines. <i>Molecules</i> , 2013, 18, 13588-13607.	3.8	27
26	Molecular Basis for Sequenceâ€Dependent Induced DNA Bending. <i>ChemBioChem</i> , 2013, 14, 323-331.	2.6	23
27	Identification of <i>cis</i> -Acting Nucleotides and a Structural Feature in West Nile Virus 3â€²-Terminus RNA That Facilitate Viral Minus Strand RNA Synthesis. <i>Journal of Virology</i> , 2013, 87, 7622-7636.	3.4	29
28	Microscopic Rearrangement of Bound Minor Groove Binders Detected by NMR. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5620-5627.	2.6	12
29	Supercooled aqueous nuclear magnetic resonance using agarose gels. <i>Analytical Biochemistry</i> , 2012, 427, 79-81.	2.4	3
30	DNA Sequence Context Conceals Î±-Anomeric Lesions. <i>Journal of Molecular Biology</i> , 2012, 416, 425-437.	4.2	22
31	Recognition of Damaged DNA: Structure and Dynamic Markers. <i>Medicinal Research Reviews</i> , 2012, 32, 659-683.	10.5	34
32	Structural Basis of the RNase H1 Activity on Stereo Regular Borano Phosphonate DNA/RNA Hybrids. <i>Biochemistry</i> , 2011, 50, 3903-3912.	2.5	19
33	Non-Invasive Imaging of Neuroanatomical Structures and Neural Activation with High-Resolution MRI. <i>Frontiers in Behavioral Neuroscience</i> , 2011, 5, 16.	2.0	17
34	Isolation and Structural Elucidation of Novel Mycosporineâ€Like Amino Acids as Alarm Cues in the Defensive Ink Secretion of the Sea Hare <i>Aplysia californica</i> . <i>Helvetica Chimica Acta</i> , 2011, 94, 1012-1018.	1.6	25
35	Characterization of secondary amide peptide bond isomerization: Thermodynamics and kinetics from 2D NMR spectroscopy. <i>Biopolymers</i> , 2011, 95, 755-762.	2.4	9
36	Advances in the Analysis of Hepatitis C Virus Specific T Cell Responses. <i>Mini-Reviews in Medicinal Chemistry</i> , 2011, 11, 106-113.	2.4	1

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37	Mycosporine-like amino acids are multifunctional molecules in sea hares and their marine community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11494-11499.	7.1	37
38	Synthesis and Structural Determination of Multidentate 2,3-Dithiol-Stabilized Au Clusters. <i>Journal of the American Chemical Society</i> , 2010, 132, 3367-3374.	13.7	96
39	Sequence context effect for hMSH2-hMSH6 mismatch-dependent activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4177-4182.	7.1	59
40	Cyclic Enzymatic Solid Phase Synthesis of Isotopically Labeled DNA Oligonucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2009, 28, 1030-1041.	1.1	1
41	Characterization of the cellular immune response in hepatitis C virus infection. <i>Medicinal Research Reviews</i> , 2009, 29, 843-866.	10.5	17
42	Translational Diffusion Constants of Short Peptides: Measurement by NMR and Their Use in Structural Studies of Peptides. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9326-9329.	2.6	12
43	Facilitated Assignment of Adenine H2 Resonances in Oligonucleotides Using Homonuclear Long-Range Couplings. <i>Journal of the American Chemical Society</i> , 2009, 131, 5380-5381.	13.7	3
44	Thermodynamic Profiling of HIV RREIIB RNA-Zinc Finger Interactions. <i>Journal of Molecular Biology</i> , 2009, 393, 369-382.	4.2	11
45	Solution Structure and Thermodynamics of 2,5 RNA Intercalation. <i>Journal of the American Chemical Society</i> , 2009, 131, 5831-5838.	13.7	18
46	Unusual DNA Structure and DNA Damage Recognition: Structure and Dynamic Markers. <i>Chimia</i> , 2009, 63, 731-736.	0.6	3
47	Non-enzymatic glycation of type I collagen diminishes collagen-proteoglycan binding and weakens cell adhesion. <i>Journal of Cellular Biochemistry</i> , 2008, 104, 1684-1698.	2.6	57
48	Translational Diffusion Constants of the Amino Acids: Measurement by NMR and Their Use in Modeling the Transport of Peptides. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1452-1455.	2.5	47
49	Mechanistic Studies of Choline Oxidase with Betaine Aldehyde and Its Isosteric Analogue 3,3-Dimethylbutyraldehyde. <i>Biochemistry</i> , 2006, 45, 1979-1986.	2.5	44
50	Performance of cryogenic probes as a function of ionic strength and sample tube geometry. <i>Journal of Magnetic Resonance</i> , 2006, 183, 102-109.	2.1	82
51	Solution structures and characterization of human immunodeficiency virus Rev responsive element IIB RNA targeting zinc finger proteins. <i>Biopolymers</i> , 2006, 83, 352-364.	2.4	4
52	The Concerted Contribution of the S4-S5 Linker and the S6 Segment to the Modulation of a Kv Channel by 1-Alkanols. <i>Molecular Pharmacology</i> , 2006, 70, 1542-1554.	2.3	22
53	Cloning, characterization and expression of escapin, a broadly antimicrobial FAD-containing l-amino acid oxidase from ink of the sea hare <i>Aplysia californica</i> . <i>Journal of Experimental Biology</i> , 2005, 208, 3609-3622.	1.7	103
54	Synthesis of a Se-uridine Phosphoramidite and Its Incorporation into Oligonucleotides for Structural Study. <i>Organic Letters</i> , 2005, 7, 5645-5648.	4.6	18

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55	Alcohol and anesthetic action at the gate of a voltage-dependent K ⁺ channel. International Congress Series, 2005, 1283, 55-60.	0.2	1
56	Solution Structure of a DNA Duplex Containing an Î±-Anomeric Adenosine: Insights into Substrate Recognition by Endonuclease IV. Journal of Molecular Biology, 2004, 338, 77-91.	4.2	33
57	Molecular Features of an Alcohol Binding Site in a Neuronal Potassium Channel. Biochemistry, 2003, 42, 11243-11252.	2.5	36
58	A cyclic heptapeptide mimics CD4 domain 1 CC TM loop and inhibits CD4 biological function. , 2002, , 609-610.		0
59	Solution structures of casein peptides: NMR, FTIR, CD, and molecular modeling studies of alphas1-casein, 1-23. The Protein Journal, 2001, 20, 391-404.	1.1	42
60	Reactions of salicylaldehydes with alkyl cyanoacetates on the surface of solid catalysts: syntheses of 4H-chromene derivatives. Tetrahedron Letters, 2000, 41, 6993-6996.	1.4	139
61	Conformational dynamics in mixed alpha/beta-oligonucleotides containing polarity reversals: a molecular dynamics study using time-averaged restraints. Journal of Biomolecular NMR, 2000, 18, 287-302.	2.8	14
62	Purification and Characterization of Recombinant Forms of Murine Tcl1 Proteins. Protein Expression and Purification, 2000, 18, 277-285.	1.3	3
63	Design of Peptides with High Affinities for Heparin and Endothelial Cell Proteoglycans. Journal of Biological Chemistry, 2000, 275, 7701-7707.	3.4	92
64	Conformational analysis of the hydrophobic peptide Î±s1-casein(136â€“196). BBA - Proteins and Proteomics, 1999, 1431, 410-420.	2.1	54
65	Solution Structure of a DNA-RNA Hybrid Containing an Î±-Anomeric Thymidine and Polarity Reversals: d(ATGG-3â€“3â€“-1â€“-5â€“-5â€“-GCTC)A-r(gagcaccäu). Biochemistry, 1999, 38, 15448-15458.	2.5	14
66	Antiparallel DNA duplex formation between alternating Î± d(GA)n and Î² d(GA)n sequences. FEBS Letters, 1998, 427, 301-304.	2.8	2
67	NMR studies of DNA duplexes containing alpha-anomeric nucleotides and polarity reversals. Biochemistry and Cell Biology, 1998, 76, 403-410.	2.0	7
68	Structure of d(GT)n-d(GA)n Sequences: Formation of Parallel Stranded Duplex DNA. Biochemistry, 1998, 37, 12962-12970.	2.5	9
69	NMR spectroscopic and enzymatic studies of DNA hairpins containing mismatches in the EcoRI recognition site. Biochemistry and Cell Biology, 1998, 76, 391-402.	2.0	3
70	Purification and Characterization of Recombinant Forms of TCL-1 and MTCP-1 Proteins. Protein Expression and Purification, 1998, 12, 215-225.	1.3	7
71	NMR spectroscopic and enzymatic studies of DNA hairpins containing mismatches in the EcoRI recognition site. Biochemistry and Cell Biology, 1998, 76, 391-402.	2.0	3
72	Bioactive Peptide Design Based on Protein Surface Epitopes. Journal of Biological Chemistry, 1997, 272, 12175-12180.	3.4	65

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73	Structure and Stability of DNA Containing Inverted Anomeric Centers and Polarity Reversals. ACS Symposium Series, 1997, , 92-105.	0.5	2
74	Spectroscopic and Thermodynamic Studies of DNA Duplexes Containing $\hat{\pm}$ -Anomeric C, A, and G Nucleotides and Polarity Reversals: Coexistence of Localized Parallel and Antiparallel DNA. Biochemistry, 1997, 36, 9715-9725.	2.5	22
75	Soft-Pulsed Aluminum-27 Quadrupolar Central Transition NMR Studies of Ovotransferrin. Journal of Magnetic Resonance, 1997, 129, 111-114.	2.1	7
76	Structure of a DNA Duplex That Contains $\hat{\pm}$ -Anomeric Nucleotides and $3\hat{\pm}$ and $5\hat{\pm}$ Phosphodiester Linkages: Coexistence of Parallel and Antiparallel DNA. Biochemistry, 1996, 35, 9355-9365.	2.5	27
77	RNA facilitates RecA-mediated DNA pairing and strand transfer between molecules bearing limited regions of homology. Molecular Genetics and Genomics, 1996, 250, 626-634.	2.4	31
78	Following Plant Metabolism in Vivo and in Extracts with Heteronuclear Two-Dimensional Nuclear Magnetic Resonance Spectroscopy. Analytical Biochemistry, 1996, 243, 110-118.	2.4	29
79	Homooligomeric dA-dU and dA-dT Sequences in Parallel and Antiparallel Strand Orientation: Consequence of the 5-methyl Groups on Stability, Structure and Interaction with the Minor Groove Binding Drug HOECHST 33258. Journal of Biomolecular Structure and Dynamics, 1996, 13, 953-962.	3.5	2
80	RNA facilitates RecA-mediated DNA pairing and strand transfer between molecules bearing limited regions of homology. Molecular Genetics and Genomics, 1996, 250, 626.	2.4	5
81	Quadrupolar metal ion NMR study of ovotransferrin at 17.6 T. Journal of the American Chemical Society, 1994, 116, 6971-6972.	13.7	35
82	Field-dependent aluminum-27 NMR studies of the transferrins: an approach for the study of metal ion binding sites in larger proteins. Journal of the American Chemical Society, 1993, 115, 9750-9753.	13.7	35
83	Solution structure of the parallel-stranded hairpin d(T8.ttbbac..rtbbac.C4A8) as determined by two-dimensional NMR. Biochemistry, 1993, 32, 646-656.	2.5	29
84	Perturbation of DNA hairpins containing the EcoRI recognition site by hairpin loops of varying size and composition: physical (NMR and UV) and enzymatic (EcoRI) studies. Nucleic Acids Research, 1990, 18, 1489-1498.	14.5	40
85	Length dependent formation of parallel-stranded DNA in alternating AT segments. Biochemistry, 1990, 29, 9426-9432.	2.5	18
86	Conformational analysis and complete assignment of the proton and carbon NMR spectra of ouabain and ouabagenin. Canadian Journal of Chemistry, 1990, 68, 1263-1270.	1.1	20
87	Solution conformation of purine-pyrimidine DNA octamers using nuclear magnetic resonance, restrained molecular dynamics and NOE-based refinement. Journal of Molecular Biology, 1990, 215, 411-428.	4.2	51
88	Characterization of a parallel stranded DNA hairpin. Biochemistry, 1989, 28, 6220-6228.	2.5	34
89	Relative stability of parallel- and anti-parallel-stranded duplex DNA. Biochemistry, 1988, 27, 8302-8306.	2.5	56
90	Comparison of the B- and Z-form hairpin loop structures formed by d(CG)5T4(CG)5. Biochemistry, 1988, 27, 6960-6967.	2.5	36

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91	A general method for the purification of synthetic oligodeoxyribonucleotides containing strong secondary structure by reversed-phase high-performance liquid chromatography on PRP-1 resin. Analytical Biochemistry, 1987, 165, 399-405.	2.4	38
92	Right- and left-handed (Z) helical conformations of the hairpin d(C-G)5T4(C-G)5 monomer and dimer. Biochemistry, 1985, 24, 5698-5702.	2.5	47