

# Markus W Germann

## List of Publications by Year in descending order

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92  
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2,317  
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172457

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docs citations

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times ranked

2776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactions of salicylaldehydes with alkyl cyanoacetates on the surface of solid catalysts: syntheses of 4H-chromene derivatives. <i>Tetrahedron Letters</i> , 2000, 41, 6993-6996.	1.4	139
2	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
3	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
4	Design of Peptides with High Affinities for Heparin and Endothelial Cell Proteoglycans. <i>Journal of Biological Chemistry</i> , 2000, 275, 7701-7707.	3.4	92
5	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
6	Bioactive Peptide Design Based on Protein Surface Epitopes. <i>Journal of Biological Chemistry</i> , 1997, 272, 12175-12180.	3.4	65
7	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
8	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
9	Relative stability of parallel- and anti-parallel-stranded duplex DNA. <i>Biochemistry</i> , 1988, 27, 8302-8306.	2.5	56
10	Conformational analysis of the hydrophobic peptide $\beta$ 1-casein(136-196). <i>BBA - Proteins and Proteomics</i> , 1999, 1431, 410-420.	2.1	54
11	Solution conformation of purine-pyrimidine DNA octamers using nuclear magnetic resonance, restrained molecular dynamics and NOE-based refinement. <i>Journal of Molecular Biology</i> , 1990, 215, 411-428.	4.2	51
12	RNA intrusions change DNA elastic properties and structure. <i>Nanoscale</i> , 2014, 6, 10009-10017.	5.6	49
13	Right- and left-handed (Z) helical conformations of the hairpin d(C-C)5T4(C-C)5 monomer and dimer. <i>Biochemistry</i> , 1985, 24, 5698-5702.	2.5	47
14	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
15	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
16	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
17	Solution structures of casein peptides: NMR, FTIR, CD, and molecular modeling studies of $\alpha$ 1-casein, 1-23. <i>The Protein Journal</i> , 2001, 20, 391-404.	1.1	42
18	Effect of methylation on the side-chain pKa value of arginine. <i>Protein Science</i> , 2016, 25, 479-486.	7.6	42

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19	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. <i>Nucleic Acids Research</i> , 1990, 18, 1489-1498.	14.5	40
20	A general method for the purification of synthetic oligodeoxyribonucleotides containing strong secondary structure by reversed-phase high-performance liquid chromatography on PRP-1 resin. <i>Analytical Biochemistry</i> , 1987, 165, 399-405.	2.4	38
21	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
22	Comparison of the B- and Z-form hairpin loop structures formed by d(CG)5T4(CG)5. <i>Biochemistry</i> , 1988, 27, 6960-6967.	2.5	36
23	Molecular Features of an Alcohol Binding Site in a Neuronal Potassium Channel. <i>Biochemistry</i> , 2003, 42, 11243-11252.	2.5	36
24	Field-dependent aluminum-27 NMR studies of the transferrins: an approach for the study of metal ion binding sites in larger proteins. <i>Journal of the American Chemical Society</i> , 1993, 115, 9750-9753.	13.7	35
25	Quadrupolar metal ion NMR study of ovotransferrin at 17.6 T. <i>Journal of the American Chemical Society</i> , 1994, 116, 6971-6972.	13.7	35
26	Characterization of a parallel stranded DNA hairpin. <i>Biochemistry</i> , 1989, 28, 6220-6228.	2.5	34
27	Recognition of Damaged DNA: Structure and Dynamic Markers. <i>Medicinal Research Reviews</i> , 2012, 32, 659-683.	10.5	34
28	Solution Structure of a DNA Duplex Containing an $\hat{\pm}$ -Anomeric Adenosine: Insights into Substrate Recognition by Endonuclease IV. <i>Journal of Molecular Biology</i> , 2004, 338, 77-91.	4.2	33
29	RNA facilitates RecA-mediated DNA pairing and strand transfer between molecules bearing limited regions of homology. <i>Molecular Genetics and Genomics</i> , 1996, 250, 626-634.	2.4	31
30	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
31	Solution structure of the parallel-stranded hairpin d(T8..rtbbrac.C4A8) as determined by two-dimensional NMR. <i>Biochemistry</i> , 1993, 32, 646-656.	2.5	29
32	Following Plant Metabolism in Vivo and in Extracts with Heteronuclear Two-Dimensional Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Biochemistry</i> , 1996, 243, 110-118.	2.4	29
33	Identification of <i>cis</i> -Acting Nucleotides and a Structural Feature in West Nile Virus 3'-Terminus RNA That Facilitate Viral Minus Strand RNA Synthesis. <i>Journal of Virology</i> , 2013, 87, 7622-7636.	3.4	29
34	Structure of a DNA Duplex That Contains $\hat{\pm}$ -Anomeric Nucleotides and $\hat{\sim}$ and $\hat{\sim}$ Phosphodiester Linkages: A Coexistence of Parallel and Antiparallel DNA. <i>Biochemistry</i> , 1996, 35, 9355-9365.	2.5	27
35	Selective G-Quadruplex DNA Recognition by a New Class of Designed Cyanines. <i>Molecules</i> , 2013, 18, 13588-13607.	3.8	27
36	Isolation and Structural Elucidation of Novel Mycosporine-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

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37	Spectral and Hydrodynamic Analysis of West Nile Virus RNA-Protein Interactions by Multiwavelength Sedimentation Velocity in the Analytical Ultracentrifuge. <i>Analytical Chemistry</i> , 2017, 89, 862-870.	6.5	24
38	Molecular Basis for Sequence-Dependent Induced DNA Bending. <i>ChemBioChem</i> , 2013, 14, 323-331.	2.6	23
39	Spectroscopic and Thermodynamic Studies of DNA Duplexes Containing $\hat{\pm}$ -Anomeric C, A, and G Nucleotides and Polarity Reversals: A Coexistence of Localized Parallel and Antiparallel DNA. <i>Biochemistry</i> , 1997, 36, 9715-9725.	2.5	22
40	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
41	DNA Sequence Context Conceals $\hat{\pm}$ -Anomeric Lesions. <i>Journal of Molecular Biology</i> , 2012, 416, 425-437.	4.2	22
42	Conformational analysis and complete assignment of the proton and carbon NMR spectra of ouabain and ouabagenin. <i>Canadian Journal of Chemistry</i> , 1990, 68, 1263-1270.	1.1	20
43	Impact of modified ribose sugars on nucleic acid conformation and function. <i>Heterocyclic Communications</i> , 2017, 23, 155-165.	1.2	20
44	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
45	Length dependent formation of parallel-stranded DNA in alternating AT segments. <i>Biochemistry</i> , 1990, 29, 9426-9432.	2.5	18
46	Synthesis of a $\hat{\pm}$ -Se-uridine Phosphoramidite and Its Incorporation into Oligonucleotides for Structural Study. <i>Organic Letters</i> , 2005, 7, 5645-5648.	4.6	18
47	Solution Structure and Thermodynamics of $\hat{\pm}$ , $\hat{\pm}$ RNA Intercalation. <i>Journal of the American Chemical Society</i> , 2009, 131, 5831-5838.	13.7	18
48	Identification of the Catalytic Base for Alcohol Activation in Choline Oxidase. <i>Biochemistry</i> , 2015, 54, 413-421.	2.5	18
49	Intrinsic disorder controls two functionally distinct dimers of the master transcription factor PU.1. <i>Science Advances</i> , 2020, 6, eaay3178.	10.3	18
50	Characterization of the cellular immune response in hepatitis C virus infection. <i>Medicinal Research Reviews</i> , 2009, 29, 843-866.	10.5	17
51	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
52	Imino proton NMR guides the reprogramming of A-T specific minor groove binders for mixed base pair recognition. <i>Nucleic Acids Research</i> , 2016, 44, 4519-4527.	14.5	17
53	Microwave-assisted synthesis and antibacterial propensity of $\hat{\pm}$ -s-benzylidene-2-propylquinoline-4-carbohydrazide and $\hat{\pm}$ -((s-1H-pyrrol-2-yl)methylene)-2-propylquinoline-4-carbohydrazide motifs. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1809-1820.	4.9	17
54	Structural Impact of Single Ribonucleotide Residues in DNA. <i>ChemBioChem</i> , 2016, 17, 1968-1977.	2.6	15

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55	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
56	Solution Structure of a DNA-RNA Hybrid Containing an $\hat{\pm}$ -Anomeric Thymidine and Polarity Reversals: $\hat{\Delta}$ d(ATGG-3 $\hat{\epsilon}$ -3 $\hat{\epsilon}$ -1 $\hat{\pm}$ T-5 $\hat{\epsilon}$ -5 $\hat{\epsilon}$ -GCTC) $\hat{\Delta}$ r(gaccacau) $\hat{\epsilon}$ , $\hat{\epsilon}$ j. <i>Biochemistry</i> , 1999, 38, 15448-15458.	2.5	14
57	Conformational dynamics in mixed alpha/beta-oligonucleotides containing polarity reversals: a molecular dynamics study using time-averaged restraints. <i>Journal of Biomolecular NMR</i> , 2000, 18, 287-302.	2.8	14
58	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
59	Microscopic Rearrangement of Bound Minor Groove Binders Detected by NMR. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5620-5627.	2.6	12
60	Thermodynamic Profiling of HIV RREIIB RNA-Zinc Finger Interactions. <i>Journal of Molecular Biology</i> , 2009, 393, 369-382.	4.2	11
61	Structure of d(GT) $\hat{\Delta}$ n-d(GA) $\hat{\Delta}$ n Sequences: $\hat{\Delta}$ Formation of Parallel Stranded Duplex DNA $\hat{\Delta}$ . <i>Biochemistry</i> , 1998, 37, 12962-12970.	2.5	9
62	Characterization of secondary amide peptide bond isomerization: Thermodynamics and kinetics from 2D NMR spectroscopy. <i>Biopolymers</i> , 2011, 95, 755-762.	2.4	9
63	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
64	Nonproteolytic Roles of 19S ATPases in Transcription of CIITApIV Genes. <i>PLoS ONE</i> , 2014, 9, e91200.	2.5	8
65	Soft-Pulsed Aluminum-27 Quadrupolar Central Transition NMR Studies of Ovotransferrin. <i>Journal of Magnetic Resonance</i> , 1997, 129, 111-114.	2.1	7
66	NMR studies of DNA duplexes containing alpha-anomeric nucleotides and polarity reversals. <i>Biochemistry and Cell Biology</i> , 1998, 76, 403-410.	2.0	7
67	Purification and Characterization of Recombinant Forms of TCL-1 and MTCP-1 Proteins. <i>Protein Expression and Purification</i> , 1998, 12, 215-225.	1.3	7
68	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
69	NMR Structure Determination for Oligonucleotides. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2018, 72, 7.28.1-7.28.39.	0.5	7
70	Second Generation G-Quadruplex Stabilizing Trimethine Cyanines. <i>Bioconjugate Chemistry</i> , 2019, 30, 2647-2663.	3.6	7
71	A Single-Point Mutation in $\langle scp \rangle$ -Arginine Dehydrogenase Unlocks a Transient Conformational State Resulting in Altered Cofactor Reactivity. <i>Biochemistry</i> , 2021, 60, 711-724.	2.5	7
72	Insight into the modulation of Shaw2 Kv channels by general anesthetics: Structural and functional studies of S4-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

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73	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
74	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
75	RNA facilitates RecA-mediated DNA pairing and strand transfer between molecules bearing limited regions of homology. <i>Molecular Genetics and Genomics</i> , 1996, 250, 626.	2.4	5
76	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
77	NMR spectroscopic and enzymatic studies of DNA hairpins containing mismatches in the EcoRI recognition site. <i>Biochemistry and Cell Biology</i> , 1998, 76, 391-402.	2.0	3
78	Purification and Characterization of Recombinant Forms of Murine Tcl1 Proteins. <i>Protein Expression and Purification</i> , 2000, 18, 277-285.	1.3	3
79	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
80	Unusual DNA Structure and DNA Damage Recognition: Structure and Dynamic Markers. <i>Chimia</i> , 2009, 63, 731-736.	0.6	3
81	Supercooled aqueous nuclear magnetic resonance using agarose gels. <i>Analytical Biochemistry</i> , 2012, 427, 79-81.	2.4	3
82	NMR spectroscopic and enzymatic studies of DNA hairpins containing mismatches in the EcoRI recognition site. <i>Biochemistry and Cell Biology</i> , 1998, 76, 391-402.	2.0	3
83	Homooligomeric dAâ€²-dU and dAâ€²-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. <i>Journal of Biomolecular Structure and Dynamics</i> , 1996, 13, 953-962.	3.5	2
84	Structure and Stability of DNA Containing Inverted Anomeric Centers and Polarity Reversals. <i>ACS Symposium Series</i> , 1997, , 92-105.	0.5	2
85	Antiparallel DNA duplex formation between alternating $\hat{1}^{\pm}$ d(GA)n and $\hat{1}^2$ d(GA)n sequences. <i>FEBS Letters</i> , 1998, 427, 301-304.	2.8	2
86	Substituting Inosine for Guanosine in DNA: Structural and Dynamic Consequences. <i>Natural Product Communications</i> , 2019, 14, 1934578X1985003.	0.5	2
87	Alcohol and anesthetic action at the gate of a voltage-dependent K <sup>+</sup> channel. <i>International Congress Series</i> , 2005, 1283, 55-60.	0.2	1
88	Cyclic Enzymatic Solid Phase Synthesis of Isotopically Labeled DNA Oligonucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2009, 28, 1030-1041.	1.1	1
89	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
90	Simplifying DNA NMR spectroscopy by silencing GH8 and AH8 resonances. <i>Journal of Molecular Structure</i> , 2018, 1166, 344-347.	3.6	1

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91	A cyclic heptapeptide mimics CD4 domain 1 CCâ€™™ loop and inhibits CD4 biological function. , 2002, , 609-610.		0
92	Self-Consistent Parameterization of DNA Residues for the Non-Polarizable AMBER Force Fields. Life, 2022, 12, 666.	2.4	0