

# Klaus Weisz

## List of Publications by Year in descending order

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64  
papers

1,301  
citations

361413

20  
h-index

414414

32  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1180  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Sequence-Dependent Cytosine Protonation and Methylation on DNA Triplex Stability. <i>Biochemistry</i> , 2000, 39, 5886-5892.	2.5	118
2	Solution structure of the octamer motif in immunoglobulin genes via restrained molecular dynamics calculations. <i>Biochemistry</i> , 1994, 33, 354-366.	2.5	85
3	Geometry and Strength of Hydrogen Bonds in Complexes of 2'-Deoxyadenosine with 2'-Deoxyuridine. <i>Journal of the American Chemical Society</i> , 2000, 122, 10109-10114.	13.7	65
4	Non-Natural Nucleosides for the Specific Recognition of Watson-Crick Base Pairs. <i>Current Organic Chemistry</i> , 2003, 7, 427-446.	1.6	48
5	Direct Monitoring of Cytosine Protonation in an Intramolecular DNA Triple Helix. <i>Journal of the American Chemical Society</i> , 1998, 120, 7123-7124.	13.7	42
6	Binding of an Acetic Acid Ligand to Adenosine: A Low-Temperature NMR Study. <i>Journal of the American Chemical Society</i> , 2004, 126, 2135-2141.	13.7	41
7	NMR Studies on the Self-Association of Uridine and Uridine Analogues. <i>Chemistry - A European Journal</i> , 1998, 4, 621-628.	3.3	39
8	Flipping a G-Tetrad in a Unimolecular Quadruplex Without Affecting Its Global Fold. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5588-5591.	13.8	38
9	Geometry and Cooperativity Effects in Adenosine-Carboxylic Acid Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 16151-16158.	13.7	33
10	Towards the Development of Structure-Selective G-Quadruplex-Binding Indolo[3,2- <i>b</i> ]quinolines. <i>Chemistry - A European Journal</i> , 2016, 22, 3170-3181.	3.3	32
11	Thermodynamic Stability of G-Quadruplexes: Impact of Sequence and Environment. <i>ChemBioChem</i> , 2021, 22, 2848-2856.	2.6	30
12	Spectroscopic studies on the formation and thermal stability of DNA triplexes with a benzoannulated $\beta$ -carboline-oligonucleotide conjugate. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9106-9112.	3.0	26
13	Selective Access to All Four Diastereomers of a 1,3-Amino Alcohol by Combination of a Keto Reductase and an Amine Transaminase-Catalysed Reaction. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 1808-1814.	4.3	26
14	Duplex-Guided Refolding into Novel G-Quadruplex (3+1) Hybrid Conformations. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11068-11071.	13.8	26
15	Structural motifs and intramolecular interactions in non-canonical G-quadruplexes. <i>RSC Chemical Biology</i> , 2021, 2, 338-353.	4.1	26
16	Manipulating DNA G-Quadruplex Structures by Using Guanosine Analogues. <i>ChemBioChem</i> , 2019, 20, 985-993.	2.6	25
17	Spectroscopic and Calorimetric Studies on the Binding of an Indoloquinoline Drug to Parallel and Antiparallel DNA Triplexes. <i>Biochemistry</i> , 2013, 52, 41-52.	2.5	24
18	Observation of a Dynamic G-Tetrad Flip in Intramolecular G-Quadruplexes. <i>Biochemistry</i> , 2016, 55, 6949-6955.	2.5	24

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19	Indoloquinolines as DNA binding ligands. <i>Heterocyclic Communications</i> , 2013, 19, 145-166.	1.2	23
20	Tracing Effects of Fluorine Substitutions on G-Quadruplex Conformational Changes. <i>ACS Chemical Biology</i> , 2017, 12, 1308-1315.	3.4	22
21	NMR structural studies on the covalent DNA binding of a pyrrolobenzodiazepine-naphthalimide conjugate. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3179.	2.8	21
22	Ligand-Induced Dimerization of a Truncated Parallel MYC G-Quadruplex. <i>ChemBioChem</i> , 2018, 19, 505-512.	2.6	21
23	Quadruplex-Duplex Junction: A High-Affinity Binding Site for Indoloquinoline Ligands. <i>Chemistry - A European Journal</i> , 2020, 26, 16910-16922.	3.3	21
24	Molecular Recognition and Visual Detection of G-Quadruplexes by a Dicyanocyanine Dye. <i>Chemistry - A European Journal</i> , 2015, 21, 13802-13811.	3.3	20
25	Efficient Synthesis of 2-Alkylidene-3-iminoindoles, Indolo[1,2-b]isoquinolin-5-ones, $\beta$ -Carbolines, and Indirubines by Domino and Sequential Reactions of Functionalized Nitriles. <i>Chemistry - A European Journal</i> , 2003, 9, 3951-3964.	3.3	19
26	Comprehensive Thermodynamic Profiling for the Binding of a G-Quadruplex Selective Indoloquinoline. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5735-5743.	2.6	19
27	In vitro anticancer activity and evaluation of DNA duplex binding affinity of phenyl-substituted indoloquinolines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2380-2383.	2.2	17
28	Sugar Puckering Drives G-Quadruplex Refolding: Implications for V-Shaped Loops. <i>Chemistry - A European Journal</i> , 2020, 26, 524-533.	3.3	16
29	Locked nucleic acid building blocks as versatile tools for advanced G-quadruplex design. <i>Nucleic Acids Research</i> , 2020, 48, 10555-10566.	14.5	16
30	Spectroscopic and calorimetric studies on the DNA recognition of pyrrolo[2,1-c][1,4]benzodiazepine hybrids. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 919-928.	3.0	15
31	Spectroscopic and Calorimetric Studies on the Triplex Formation with Oligonucleotide-Ligand Conjugates. <i>Bioconjugate Chemistry</i> , 2010, 21, 1105-1114.	3.6	15
32	Fluorine-Mediated Editing of a G-Quadruplex Folding Pathway. <i>ChemBioChem</i> , 2018, 19, 927-930.	2.6	15
33	Solution Structure of a Covalently Bound Pyrrolo[2,1-c][1,4]benzodiazepine-Benzimidazole Hybrid to a 10mer DNA Duplex. <i>Biochemistry</i> , 2009, 48, 12223-12232.	2.5	14
34	Indoloquinoline Ligands Favor Intercalation at Quadruplex-Duplex Interfaces. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	14
35	Sugar-Edge Interactions in a DNA-RNA G-Quadruplex: Evidence of Sequential C-H...O Hydrogen Bonds Contributing to RNA Quadruplex Folding. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15162-15165.	13.8	13
36	Nonconventional C-H...F Hydrogen Bonds Support a Tetrad Flip in Modified G-Quadruplexes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5148-5152.	4.6	13

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37	Impact of a Snap-Back Loop on Stability and Ligand Binding to a Parallel G-Quadruplex. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2778-2787.	2.6	13
38	Inter- and intrastrand DNA crosslinks by 2-fluoro-substituted pyrrolobenzodiazepine dimers: stability, stereochemistry and drug orientation. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6850.	2.8	12
39	Binding and NMR Structural Studies on Indoloquinolineâ€“Oligonucleotide Conjugates Targeting Duplex DNA. <i>Bioconjugate Chemistry</i> , 2012, 23, 1127-1137.	3.6	12
40	Thermodynamic signature of indoloquinolines interacting with G-quadruplexes: Impact of ligand side chain. <i>Biochimie</i> , 2019, 157, 142-148.	2.6	12
41	A Thermodynamic Perspective on Potential Gâ€“Quadruplex Structures as Silencer Elements in the MYC Promoter. <i>Chemistry - A European Journal</i> , 2020, 26, 17242-17251.	3.3	12
42	Guiding the folding of G-quadruplexes through loop residue interactions. <i>Nucleic Acids Research</i> , 2022, 50, 7161-7175.	14.5	12
43	DNA triplex stabilization by a Î-carboline derivative tethered to third strand oligonucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 1647-1650.	2.2	11
44	Selective Targeting of Gâ€“Quadruplex Structures by a Benzothiazoleâ€“Based Binding Motif. <i>Chemistry - A European Journal</i> , 2017, 23, 5814-5823.	3.3	11
45	Exploring multiple binding sites of an indoloquinoline in triple-helical DNA: A paradigm for DNA triplex-selective intercalators. <i>Biochimie</i> , 2014, 107, 327-337.	2.6	10
46	Preparation and characterization of pyrene modified uridine derivatives as potential electron donors in RNA. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7663-7673.	2.8	10
47	DNAâ€“RNA Hybrid Quadruplexes Reveal Interactions that Favor RNA Parallel Topologies. <i>Chemistry - A European Journal</i> , 2018, 24, 15365-15371.	3.3	10
48	Switching the type of V-loop in sugar-modified G-quadruplexes through altered fluorine interactions. <i>Chemical Communications</i> , 2020, 56, 4539-4542.	4.1	9
49	Influence of Substrate Binding Residues on the Substrate Scope and Regioselectivity of a Plant Oâ€“Methyltransferase against Flavonoids. <i>ChemCatChem</i> , 2020, 12, 3721-3727.	3.7	9
50	Expanding the Topological Landscape by a Gâ€“Column Flip of a Parallel Gâ€“Quadruplex. <i>Chemistry - A European Journal</i> , 2021, 27, 10437-10447.	3.3	9
51	Nucleosides derived from urocanic acid: potential ligands for CG base pairs. <i>Tetrahedron Letters</i> , 2002, 43, 61-64.	1.4	8
52	Binding of Imidazole-Derived Nucleosides to a CG Base Pair. <i>Journal of Organic Chemistry</i> , 2004, 69, 195-197.	3.2	8
53	Characterization of Peptideâ€“Pyrazole Interactions in Solution by Low-Temperature NMR Studies. <i>Chemistry - A European Journal</i> , 2007, 13, 854-861.	3.3	8
54	NMR studies on self-complementary oligonucleotides conjugated with methylene blue. <i>Biopolymers</i> , 2005, 79, 335-343.	2.4	7

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55	Duplex-gesteuerte Umfaltung in neuartige G-Quadruplex(3+1)-Hybridkonformationen. Angewandte Chemie, 2019, 131, 11184-11188.	2.0	7
56	Loop Length Affects <i>Syn</i> vs <i>Anti</i> Conformational Rearrangements in Parallel G-Quadruplexes. Chemistry - A European Journal, 2018, 24, 10246-10252.	3.3	6
57	Structural Heterogeneity in Intramolecular DNA Triple Helices. Biological Chemistry, 2000, 381, 275-83.	2.5	4
58	Zuckerseitige Wechselwirkungen in einem DNA-RNA-G-Quadruplex: Hinweise auf sequentielle C-H...H...O-Wasserstoffbrücken als Beitrag zur RNA-Quadruplex-Faltung. Angewandte Chemie, 2016, 128, 15386-15390.	1.8	4
59	Revealing the Energetics of Ligand-Quadruplex Interactions Using Isothermal Titration Calorimetry. Methods in Molecular Biology, 2019, 2035, 45-61.	0.9	4
60	First Tandem Repeat of a Potassium Channel <i>KCNN4</i> Minisatellite Folds into a V-Loop G-Quadruplex Structure. Biochemistry, 2021, 60, 1337-1346.	2.5	4
61	G-Quadruplex Formation in a Putative Coding Region of White Spot Syndrome Virus: Structural and Thermodynamic Aspects. ChemBioChem, 2021, 22, 1932-1935.	2.6	4
62	Synthesis and DNA triplex formation of an oligonucleotide containing an urocanamide. Tetrahedron Letters, 2006, 47, 3849-3852.	1.4	3
63	A world beyond double-helical nucleic acids: the structural diversity of tetra-stranded G-quadruplexes. ChemTexts, 2021, 7, 1.	1.9	2
64	NMR studies on oligonucleotide Methylene blue conjugates targeting double-helical nucleic acids. Biophysical Chemistry, 2020, 257, 106314.	2.8	0