

# Wojciech Bocian

## List of Publications by Year in descending order

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72  
papers

935  
citations

394421

19  
h-index

552781

26  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1103  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of human insulin monomer in water/acetonitrile solution. <i>Journal of Biomolecular NMR</i> , 2008, 40, 55-64.	2.8	53
2	NMR and molecular modeling study, as complementary techniques to capillary electrophoresis method to elucidate the separation mechanism of linezolid enantiomers. <i>Journal of Chromatography A</i> , 2008, 1193, 164-171.	3.7	49
3	Secondary Deuterium Kinetic Isotope Effects in Irreversible Additions of Hydride and Carbon Nucleophiles to Aldehydes: A Spectrum of Transition States from Complete Bond Formation to Single Electron Transfer. <i>Journal of the American Chemical Society</i> , 1999, 121, 326-334.	13.7	45
4	Assessment of Oversulfated Chondroitin Sulfate in Low Molecular Weight and Unfractionated Heparins Diffusion Ordered Nuclear Magnetic Resonance Spectroscopy Method. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 7663-7665.	6.4	37
5	Complexation of steroid hormones: prednisolone, ethinyloestradiol and estriol with $\beta$ -cyclodextrin. An aqueous $^1\text{H}$ NMR study. <i>Perkin Transactions II RSC</i> , 2002, , 999-1004.	1.1	36
6	Secondary Deuterium Kinetic Isotope Effects in Irreversible Additions of Allyl Reagents to Benzaldehyde. <i>Journal of Organic Chemistry</i> , 2002, 67, 4236-4240.	3.2	34
7	Binding of Topotecan to a Nicked DNA Oligomer in Solution. <i>Chemistry - A European Journal</i> , 2008, 14, 2788-2794.	3.3	29
8	Multiple Binding Modes of the Camptothecin Family to DNA Oligomers. <i>Chemistry - A European Journal</i> , 2004, 10, 5776-5787.	3.3	25
9	A multinuclear NMR study of some mesoionic 1,3-dimethyltetrazoles, 1- and 2-methyltetrazoles and related compounds. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 1327-1332.	0.9	24
10	Solution and solid state $^{13}\text{C}$ NMR and X-ray studies of genistein complexes with amines. Potential biological function of the C-7, C-5, and C-4'-OH groups. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3578-3585.	2.8	24
11	Interaction of flavonoid topoisomerase I and II inhibitors with DNA oligomers. <i>New Journal of Chemistry</i> , 2006, 30, 467.	2.8	23
12	$^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ NMR studies on adducts formation of rhodium(II) tetraacylates with some azoles in $\text{CDCl}_3$ solution. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 156-165.	1.9	23
13	A nicked duplex decamer DNA with a PEG6 tether. <i>Nucleic Acids Research</i> , 2001, 29, 1132-1143.	14.5	22
14	An assessment of polydispersed species in unfractionated and low molecular weight heparins by diffusion ordered nuclear magnetic resonance spectroscopy method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 302-308.	2.8	22
15	Enantioselective recognition of sutezolid by cyclodextrin modified non-aqueous capillary electrophoresis and explanation of complex formation by means of infrared spectroscopy, NMR and molecular modelling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 169, 49-59.	2.8	22
16	Insights into the Tautomerism in <i>meso</i> -Substituted Corroles: A Variable Temperature $^1\text{H}$ , $^{13}\text{C}$ , $^{15}\text{N}$ , and $^{19}\text{F}$ NMR Spectroscopy Study. <i>Chemistry - A European Journal</i> , 2014, 20, 1720-1730.	3.3	21
17	Enantioselective recognition of radezolid by cyclodextrin modified capillary electrokinetic chromatography and electronic circular dichroism. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 139, 98-108.	2.8	21
18	Direct insight into insulin aggregation by 2D NMR complemented by PFGSE NMR. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 1057-1065.	2.6	20

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19	NMR structure of biosynthetic engineered human insulin monomer B31<sup>Lys</sup>â€B32<sup>Arg</sup> in water/acetonitrile solution. Comparison with the solution structure of native human insulin monomer. <i>Biopolymers</i> , 2008, 89, 820-830.	2.4	19
20	Identification and structural characterization of four novel synthetic cathinones: $\hat{1}\pm$ -methylaminohexanophenone (hexedrone, HEX), 4-bromoethcathinone (4-BEC), 4-chloro- $\hat{1}\pm$ -pyrrolidinopropiophenone (4-Cl-PPP), and 4-bromo- $\hat{1}\pm$ -pyrrolidinopentiophenone (4-Br-PVP) after their seizures. <i>Forensic Toxicology</i> , 2017, 35, 317-332.	2.4	19
21	Enantioselective Epoxidation of Electrophilic Olefins by Using Glycosyl Hydroperoxides. <i>Chemistry - A European Journal</i> , 2008, 14, 6087-6097.	3.3	17
22	Identification of Lysine Misincorporation at Asparagine Position in Recombinant Insulin Analogs Produced in <i>E. coli</i> . <i>Pharmaceutical Research</i> , 2019, 36, 79.	3.5	16
23	Nuclear magnetic resonance spectroscopic study of the inclusion complex of (R)-tedizolid with HDAS- $\hat{1}^2$ -CD, $\hat{1}^2$ -CD, and $\hat{1}^3$ -cyclodextrin in aqueous solution. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 169, 170-180.	2.8	16
24	Platinum(ii) and palladium(ii) complexes with methyl 3,4-diamino-2,3,4,6-tetra-deoxy- $\hat{1}\pm$ -l-lyxo-hexopyranoside. <i>Dalton Transactions</i> , 2003, , 2177-2183.	3.3	15
25	DFT calculations of the anomeric and exo-anomeric effect of the hydroperoxy and peroxy groups. <i>Carbohydrate Research</i> , 2008, 343, 1463-1472.	2.3	14
26	The application of multidimensional NMR analysis to cis/trans isomers study of menaquinone-7 (vitamine K2MK-7), identification of the (E,Z3,E2, $\hat{1}\%$ )-menaquinone-7 isomer in dietary supplements. <i>Journal of Molecular Structure</i> , 2018, 1171, 449-457.	3.6	14
27	Multinuclear NMR study of some mesoionic 3-phenyl-1-thia-2,3,4-triazol-3-ium-5-ylmethanides with various exocyclic groups. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 1467-1470.	0.9	13
28	Multinuclear magnetic resonance study of some mesoionic 1,3,4-triazoles. <i>Magnetic Resonance in Chemistry</i> , 1995, 33, 134-137.	1.9	13
29	The new HMQC-based technique for the quantitative determination of heteronuclear coupling constants. Application for the measurement of in DNA oligomers. <i>Journal of Magnetic Resonance</i> , 2003, 160, 120-125.	2.1	11
30	Stereochemistry of the [2+2] Cycloaddition of Chlorosulfonyl Isocyanate to Chiral Alkoxyallenes Derived from 1,3-Alkylidene-L-erythritol and -D-threitol. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 429-440.	2.4	11
31	A novel isoquinoline alkaloid, DD-carboxypeptidase inhibitor, with antibacterial activity isolated from <i>Streptomyces</i> sp. 8812. Part II: Physicochemical properties and structure elucidation. <i>Journal of Antibiotics</i> , 2009, 62, 581-585.	2.0	11
32	DOSY NMR and MALDIâ€TOF evidence of covalent binding the DNA duplex by trimethylammonium salts of topotecan upon near UV irradiation. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 565-571.	1.9	11
33	New generation of camptothecin derivatives spontaneously alkylating DNA. <i>New Journal of Chemistry</i> , 2016, 40, 7978-7985.	2.8	11
34	Multinuclear magnetic resonance study of some mesoionic 1,3-diphenyltetrazoles with various exocyclic groups. <i>Magnetic Resonance in Chemistry</i> , 1994, 32, 284-287.	1.9	10
35	The conformation of the naproxen anion studied by $^1\text{H}$ NMR and theoretical methods. <i>Journal of Molecular Structure</i> , 2001, 559, 369-377.	3.6	10
36	Synthesis, Antidepressant Evaluation and Docking Studies of Longâ€Chain Alkyl Nitroquipazines as Serotonin Transporter Inhibitors. <i>Chemical Biology and Drug Design</i> , 2013, 81, 695-706.	3.2	10

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37	Multinuclear Magnetic Resonance Study of Some Mesoionic 1,2,3-Triazoles and Related Compounds. <i>Magnetic Resonance in Chemistry</i> , 1996, 34, 453-457.	1.9	9
38	New camptothecin derivatives for generalized oncological chemotherapy: Synthesis, stereochemistry and biology. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 46, 128146.	2.2	9
39	Hydrogen bonds in $\alpha$ -push-pull enamines. <i>New Journal of Chemistry</i> , 2004, 28, 1562-1567.	2.8	8
40	Spontaneous 2-deoxyguanosine alkylation by a new generation of topoisomerase I inhibitors of the camptothecin family. <i>New Journal of Chemistry</i> , 2016, 40, 3010-3013.	2.8	8
41	Preliminary study of mechanism of action of SN38 derivatives. Physicochemical data, evidence of interaction and alkylation of DNA octamer d(GCGATCGC) <sub>2</sub> . <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 128-136.	1.9	8
42	Separation of menaquinone-7 geometric isomers by semipreparative high-performance liquid chromatography with silver complexation and identification by nuclear magnetic resonance. <i>Food Chemistry</i> , 2022, 368, 130890.	8.2	8
43	Cathinones - Routine NMR methodology for enantiomer discrimination and their absolute stereochemistry assignment, using R-BINOL. <i>Journal of Molecular Structure</i> , 2020, 1219, 128575.	3.6	7
44	Application of the HECADÉ method to the measurement of long-range heteronuclear <sup>13</sup> C, <sup>1</sup> H spin-spin coupling constants in tautomeric $\beta$ -sulfonylenamines. <i>Magnetic Resonance in Chemistry</i> , 2000, 38, 839-844.	1.9	6
45	The tautomeric equilibrium and stereochemistry of $\beta$ -sulfonyl enamines. <i>New Journal of Chemistry</i> , 2002, 26, 1060-1069.	2.8	6
46	A dumbbell double nicked duplex dodecamer DNA with a PEG6 tether. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4481.	2.8	6
47	Biosynthetic engineered B28K-B29P human insulin monomer structure in water and in water/acetonitrile solutions. <i>Journal of Biomolecular NMR</i> , 2013, 55, 303-309.	2.8	6
48	NMR study of some sydnone, isosydnone, and isothiosydnone. <i>Chemistry of Heterocyclic Compounds</i> , 1996, 32, 1358-1366.	1.2	5
49	Structure and dynamics of methyl cis-3,4-diamino-2,3,4,6-tetra-deoxy- $\beta$ -l-lyxo-hexopyranoside complexes with PtCl <sub>2</sub> and PdCl <sub>2</sub> , by <sup>1</sup> H, <sup>2</sup> H, <sup>13</sup> C, <sup>15</sup> N and <sup>195</sup> Pt NMR spectroscopy in DMSO, CD <sub>3</sub> CN and H <sub>2</sub> O. <i>Dalton Transactions</i> , 2008, , 4129.	3.3	5
50	Topotecan dynamics, tautomerism and reactivity $\alpha$ - <sup>1</sup> H/ <sup>13</sup> C NMR and ESI MS study. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 575-584.	1.9	5
51	Genistein Binding Mode to Doubly Nicked Dumbbell DNA. Dynamic and Diffusion Ordered NMR Study. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 8386-8393.	6.4	5
52	Novel recombinant insulin analogue with flexible C-terminus in B chain. NMR structure of biosynthetic engineered A22G-B31K-B32R human insulin monomer in water/acetonitrile solution. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 548-554.	7.5	5
53	Application of spectroscopic methods (FT-IR, Raman, ECD and NMR) in studies of identification and optical purity of radezolid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 116-122.	3.9	5
54	Structure and pharmaceutical formulation development of a new long-acting recombinant human insulin analog studied by NMR and MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 135, 126-132.	2.8	5

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55	Regioselective alkylation reaction of the 2'-deoxyctidine with 9-aminomethyl derivatives of SN38. <i>Journal of Molecular Structure</i> , 2019, 1176, 298-302.	3.6	5
56	Explanation of the Formation of Complexes between Representatives of Oxazolidinones and HDAS- $\beta$ -CD Using Molecular Modeling as a Complementary Technique to cEKC and NMR. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7139.	4.1	5
57	$^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ NMR data for indolo[2,3- <i>b</i> ]quinolines, a novel potent anticancer drug family. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 569-573.	1.9	4
58	Multinuclear magnetic resonance study of some mesoionic oxatriazoles containing nitrogenous exocyclic groups. <i>Chemistry of Heterocyclic Compounds</i> , 1995, 31, 1103-1107.	1.2	3
59	$^1\text{H}$ and $^{13}\text{C}$ NMR data for indolo[2,3- <i>b</i> ]quinoline-aminoglycoside hybrids, a novel potent anticancer drug family. <i>Magnetic Resonance in Chemistry</i> , 2006, 44, 459-462.	1.9	3
60	Solvent-dependent regioselectivity of 2'-deoxyadenosine alkylation by 9-aminomethyl derivatives of SN38. <i>New Journal of Chemistry</i> , 2019, 43, 18975-18978.	2.8	3
61	The solution and solid-state degradation study followed by identification of tedizolid related compounds in medicinal product by high performance liquid chromatography with diode array and tandem mass spectrometry detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 194, 113783.	2.8	3
62	A NMR study of binding the metabolite of SN38 derivatives to a model nicked DNA decamer mimicking target of Topo I inhibitors. <i>Bioorganic Chemistry</i> , 2021, 107, 104631.	4.1	3
63	The Mode of SN38 Derivatives Interacting with Nicked DNA Mimics Biological Targeting of Topo I Poisons. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7471.	4.1	3
64	The use of carbonyl group anisotropy effect in determination of the relative configuration of carbapenams. <i>Arhivoc</i> , 2014, 2014, 143-153.	0.5	3
65	Recombinant A22G-B31R-human insulin. A22 addition introduces conformational mobility in B chain C-terminus. <i>Journal of Biomolecular NMR</i> , 2012, 52, 365-370.	2.8	2
66	Insight into human insulin aggregation revisited using NMR derived translational diffusion parameters. <i>Journal of Biomolecular NMR</i> , 2018, 71, 101-114.	2.8	2
67	UPLC-MS/MS determination of steroid hormones via a novel reaction based on derivatisation by a cyclic-organophosphate. <i>Talanta</i> , 2019, 204, 415-423.	5.5	2
68	On the diastereomeric purity of the $D(2R)$ -ampicillin. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 191-197.	1.9	2
69	Spectroscopic identification of intermediates and final products of the chiral pool synthesis of sutezolid. <i>Journal of Molecular Structure</i> , 2020, 1217, 128396.	3.6	2
70	Novel Nontoxic 5,9-Disubstituted SN38 Derivatives: Characterization of Their Pharmacological Properties and Interactions with DNA Oligomers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8190.	4.1	2
71	The $^1\text{H}$ , $^{13}\text{C}$ , $^{15}\text{N}$ , and $^{19}\text{F}$ NMR chemical shifts assignments in 5,10,15-tris (pentafluorophenyl)tetra- $^{15}\text{N}$ corrole at 191%K. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 167-171.	1.9	1
72	A multinuclear NMR study of some cyclic phosphonic diamides. <i>Spectroscopy</i> , 1994, 12, 31-34.	0.8	0