

# Jiri Kozelka

## List of Publications by Year in descending order

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64  
papers

1,760  
citations

218677

26  
h-index

289244

40  
g-index

68  
all docs

68  
docs citations

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times ranked

1338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dispersion-Driven Hydrogen Bonding: Predicted Hydrogen Bond between Water and Platinum(II) Identified by Neutron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7440-7443.	13.8	93
2	A Complete Kinetic Study of GG versus AG Platination Suggests That the Doubly Aquated Derivatives of Cisplatin Are the Actual DNA Binding Species. <i>Chemistry - A European Journal</i> , 2000, 6, 2002-2010.	3.3	81
3	Molecular mechanics calculations on cis-[Pt(NH <sub>3</sub> ) <sub>2</sub> {d(GpG)}] adducts in two oligonucleotide duplexes. <i>Journal of the American Chemical Society</i> , 1985, 107, 4079-4081.	13.7	77
4	H8 chemical shifts in oligonucleotides cross-linked at a GpG Sequence by cis-Pt(NH <sub>3</sub> ) <sub>2</sub> <sup>2+</sup> : a clue to the adduct structure. <i>FEBS Journal</i> , 1992, 205, 895-906.	0.2	77
5	Lone-pair-π interactions: analysis of the physical origin and biological implications. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19472-19481.	2.8	71
6	High-salt and low-salt models for kinked adducts of cis-diamminedichloroplatinum(II) with oligonucleotide duplexes. <i>Inorganic Chemistry</i> , 1986, 25, 1075-1077.	4.0	65
7	Molecular mechanics modeling of oligonucleotide adducts of the antitumor drug cis-diamminedichloroplatinum(II). <i>Biopolymers</i> , 1987, 26, 1245-1271.	2.4	65
8	On the non-classical contribution in lone-pair-π interaction: IQA perspective. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26183-26190.	2.8	63
9	A Pyrazolato-Bridged Dinuclear Platinum(II) Complex Induces Only Minor Distortions upon DNA-Binding. <i>Chemistry - A European Journal</i> , 2006, 12, 3741-3753.	3.3	58
10	cis-Diamminediaquaplatinum(II) selectivity for GpG: influence of the adjacent base on the first platination step. <i>Inorganic Chemistry</i> , 1988, 27, 2751-2753.	4.0	52
11	O <sup>π</sup> H <sup>σ</sup> ...π...Pt(II): Hydrogen Bond with a Strong Dispersion Component. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 198-201.	13.8	51
12	Kinetic Analysis of the Reactions between GG-Containing Oligonucleotides and Platinum Complexes. 1. Reactions of Single-Stranded Oligonucleotides with cis-[Pt(NH <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] <sup>2+</sup> and [Pt(NH <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O)] <sup>2+</sup> . <i>Inorganic Chemistry</i> , 1996, 35, 1653-1658.	4.0	50
13	Reactions of the Double-Stranded Oligonucleotide d(TTGGCCAA) <sub>2</sub> with cis-[Pt(NH <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] <sup>2+</sup> and [Pt(NH <sub>3</sub> ) <sub>3</sub> (H <sub>2</sub> O)] <sup>2+</sup> . <i>Chemistry - A European Journal</i> , 1996, 2, 1068-1076.	3.3	49
14	Molecular origin of the sequence-dependent kinetics of reactions between cisplatin derivatives and DNA. <i>Inorganica Chimica Acta</i> , 2009, 362, 651-668.	2.4	47
15	Model of the Second Most Abundant Cisplatin-DNA Cross-Link: X-ray Crystal Structure and Conformational Analysis of cis-[(NH <sub>3</sub> ) <sub>2</sub> Pt(9-MeA-N7)(9-EtGH-N7)](NO <sub>3</sub> ) <sub>2</sub> ·2H <sub>2</sub> O (9-MeA = 9-Methyladenine; 9-EtGH = 9-Ethylguanine). <i>Journal of Inorganic Biochemistry</i> , 2003, 96, 357-366.	1.0	14
16	Effect of platinum N7-binding to deoxyguanosine and deoxyadenosine on the H8 and H2 chemical shifts. A quantitative analysis. <i>Journal of Inorganic Biochemistry</i> , 1994, 53, 261-271.	3.5	43
17	Kinetic study of azole-bridged dinuclear platinum(II) complexes reacting with a hairpin-stabilized double-stranded oligonucleotide. <i>Journal of Inorganic Biochemistry</i> , 2003, 96, 357-366.	3.5	39
18	Recognition of DNA Interstrand Cross-link of Antitumor Cisplatin by HMGB1 Protein. <i>Biochemistry</i> , 2003, 42, 1234-1244.	2.5	38

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19	Influence of dT20 and [d(AT)10]2 on Cisplatin Hydrolysis Studied by Two-Dimensional [1H,15N] HMQC NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2005, 11, 3863-3871.	3.3	37
20	Lone pair-π interactions in biological systems: occurrence, function, and physical origin. <i>European Biophysics Journal</i> , 2017, 46, 729-737.	2.2	37
21	GG versus AG Platination: A Kinetic Study on Hairpin-Stabilized Duplex Oligonucleotides. <i>Inorganic Chemistry</i> , 1998, 37, 3964-3967. A Combined Effect of Molecular Electrostatic Potential and N7 Accessibility Explains	4.0	35
22	Sequence-Dependent Binding of cis-[Pt(NH3)2(H2O)2]2+ to DNA Duplexes We are indebted to Johnson-Matthey, Inc. for a generous loan of cisplatin. Computer time from the IDRIS computer center of the CNRS and financial support from COST (project D8/0004/97), enabling scientific exchange with other research groups, are gratefully acknowledged. M.A.E.R. was the 1997 recipient of the Gemini Award from the International Precious Me. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2998.	13.8	32
23	Triammineplatinum(II) Coordinated to a Guanine Does Not Prevent Platination of an Adjacent Guanine in Single-Stranded Oligonucleotides. <i>Inorganic Chemistry</i> , 1996, 35, 1413-1415.	4.0	28
24	cis-[Pt(NH3)2(9-MeA-N7)(9-EtGH-N7)](PF6)2·1.5H2O (9-MeA = 9-Methyladenine; 9-EtGH = 9-Ethylguanine): A Right-Handed Helicoidal Model Compound for the Intrastrand A,G Cross-Link in Duplex DNA. <i>Inorganic Chemistry</i> , 1997, 36, 490-493.	4.0	27
25	Chiral Differentiation of DNA Adducts Formed by Enantiomeric Analogues of Antitumor Cisplatin Is Sequence-Dependent. <i>Biophysical Journal</i> , 2005, 88, 4159-4169.	0.5	27
26	Quantum Chemical Topology Study of the Water-Platinum(II) Interaction. <i>Inorganic Chemistry</i> , 2013, 52, 1217-1227.	4.0	27
27	Crosslinking of Adjacent Guanine Residues in an Oligonucleotide by cis-[Pt(NH3)2(H2O)2]2+: Kinetic Analysis of the Two-Step Reaction. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1483-1485.	4.4	26
28	Cytotoxic activity of platinum (II) complexes with tri-n-butylphosphine. Crystal structure of the dinuclear hydrazine-bridged complex, cis,cis-[PtCl(PBu3n)2(1/4-N2H4)PtCl(PBu3n)2] (ClO4)2 · 2CHCl3. <i>Journal of Inorganic Biochemistry</i> , 1992, 47, 67-80.	3.5	24
29	Platinum(II) and Palladium(II) Complexes with N-Aminoguanidine. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3327-3334.	2.0	24
30	The Phosphodiester Groups of d(TpT) and d(TpG) Coordinate to Platinum(II) in N,N-Dimethylformamide. <i>Chemistry - A European Journal</i> , 1997, 3, 1405-1409.	3.3	21
31	GA and AG Sequences of DNA React with Cisplatin at Comparable Rates. <i>Chemistry - A European Journal</i> , 2003, 9, 4739-4745.	3.3	21
32	Probing the mechanism of an Mn2+-dependent ribozyme by means of platinum complexes. <i>FEBS Journal</i> , 1998, 252, 25-35.	0.2	20
33	Reversible hydrolysis of [PtCl(dien)]+ and [PtCl(NH3)3]+. Determination of the rate constants using UV spectrophotometry. <i>Inorganic Chemistry Communication</i> , 1998, 1, 439-442.	3.9	19
34	Dispersion-Driven Hydrogen Bonding: Predicted Hydrogen Bond between Water and Platinum(II) Identified by Neutron Diffraction. <i>Angewandte Chemie</i> , 2010, 122, 7602-7605.	2.0	19
35	Reaction between ethylenediamine and acetone on a platinum(II) complex. Crystal structure of chloro(ethylenediamine)(tributylphosphine)platinum(1+) chloro(N-isopropylideneethylenediamine)(tributylphosphine)platinum(1+) dichloride.acetone. <i>Inorganic Chemistry</i> , 1988, 27, 3866-3868.	4.0	18
36	Fast Interstrand Cross-linking of Cisplatin-DNA Monoadducts Compared with Intrastrand Chelation: A Kinetic Study Using Hairpin-Stabilized Duplex Oligonucleotides. <i>Chemistry - A European Journal</i> , 2002, 8, 1144.	3.3	18

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37	Structure of a nonanucleotide duplex cross-linked by cisplatin at an ApG sequence. <i>Journal of Biological Inorganic Chemistry</i> , 1997, 2, 83-92.	2.6	17
38	Cisplatin Adducts on a GGG Sequence within a DNA Duplex Studied by NMR Spectroscopy and Molecular Dynamics Simulations. <i>Chemistry - A European Journal</i> , 2009, 15, 12320-12337.	3.3	17
39	Platinum-DNA interstrand crosslinks: Molecular determinants of bending and unwinding of the double helix. <i>Journal of Inorganic Biochemistry</i> , 2012, 108, 69-79.	3.5	17
40	Anion- $\pi$ Interactions in Flavoproteins Involve a Substantial Charge-Transfer Component. <i>Chemistry - A European Journal</i> , 2017, 23, 3246-3250.	3.3	17
41	LEF-1 recognition of platinated GG sequences within double-stranded DNA. Influence of flanking bases. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 242-250.	3.5	14
42	Platinum(II) complexes with four ligating Phosphorus atoms crystal and molecular structure of $[\text{Pt}(\text{PET}_3)_4](\text{ClO}_4)_2$ . Discussion of electronic spectra of planar and tetrahedrally distorted PtP4 chromophores. <i>Inorganica Chimica Acta</i> , 1984, 86, 155-163.	2.4	12
43	Isolation of cis- $[\text{PtCl}(\text{NH}_3)_2(\text{H}_2\text{O})](\text{ClO}_4)$ , the monohydrated form of the anti-tumour drug cisplatin, using cation-exchange high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1993, 648, 279-282.	3.7	11
44	Agostic and Hydrogen-Bonding $\sigma$ - $\pi$ Interactions Involving a d8 Metal Center: Recent Advances Towards Their Understanding. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2015, , 129-158.	0.6	11
45	Fixing the conformations of diamineplatinum(II)-GpG chelates: NMR and CD signatures of individual rotamers. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 139-152.	2.6	10
46	Hydration of platinum(II) complexes: a molecular mechanics study using atom-based force-field parameters. <i>Theoretical Chemistry Accounts</i> , 2000, 104, 247-251.	1.4	9
47	Effect of Ring Size on Coordination Properties of trans-1,2-Cycloalkanediamine Ligands: Synthesis of Dinuclear Platinum(II) Complexes as Potential DNA Cross-Linkers. <i>Inorganic Chemistry</i> , 2000, 39, 6131-6133.	4.0	9
48	Synthetic Route to Dinuclear Platinum(II) Complexes $[\{\text{trans-PtCl}(\text{NH}_3)_2\}_2(\text{L})]^{2+}$ (L = Aliphatic or Tertiary Amine) and Their DNA Cross-Linking Properties. <i>Inorganic Chemistry</i> , 2008, 47, 9701-9705.	4.0	9
49	Water-Tryptophan Interactions: Lone Pair- $\pi$ or $\pi$ - $\pi$ ? Molecular Dynamics Simulations of $\beta$ -Galactosidase Suggest that Both Modes Can Coexist. <i>Chemistry - A European Journal</i> , 2018, 24, 5849-5859.	3.3	7
50	The TpG chelate of cis(diammineplatinum) forms two head-to-head rotamers in H <sub>2</sub> O solution. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 30-43.	2.6	6
51	A 5'-Phosphodiester Group Attached to Deoxyguanosine does not Accelerate the Hydrolysis of cis- $[\text{PtCl}(\text{NH}_3)_2(\text{dGuo})]^+$ . <i>Metal-Based Drugs</i> , 1999, 6, 5-16.	3.8	6
52	A Combined Effect of Molecular Electrostatic Potential and N7 Accessibility Explains Sequence-Dependent Binding of cis- $[\text{Pt}(\text{NH}_3)_2(\text{H}_2\text{O})_2]^{2+}$ to DNA Duplexes We are indebted to Johnson-Matthey, Inc. for a generous loan of cisplatin. Computer time from the IDRIS computer center of the CNRS and financial support from COST (project D8/0004/97), enabling scientific exchange with other research groups, are gratefully acknowledged. M.A.E.R. was the 1997 recipient of the Gemini Award from the International Precious Metal Association. <i>Angewandte Chemie</i> , 2002, 114, 3124.	2.0	6
53	Ortho-(methylsulfonyl)phenylphosphonates and derivatives: Synthesis and applications as mono- or bidentate ligands for the preparation of platinum complexes. <i>Journal of Organometallic Chemistry</i> , 2013, 745-746, 206-213.	1.8	6
54	Recognition Complex Between the HMG Domain of LEF-1 and its Cognate DNA Studied by Molecular Dynamics Simulations with Explicit Solvation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2005, 23, 1-11.	3.5	5

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55	Unusual Interstrand Pt( <i>S,S</i> -diaminocyclohexane)GG Crosslink Formed by Rearrangement of a Classical Intrastrand Crosslink Within a DNA Duplex. <i>Chemistry - an Asian Journal</i> , 2010, 5, 244-247.	3.3	5
56	Hydrolysis of chlorido complexes of d8 metals: Old models, new facts. <i>Inorganica Chimica Acta</i> , 2019, 495, 118946.	2.4	5
57	Verknüpfung benachbarter Guaninreste in einem Oligonucleotid durch <i>cis</i> -Pt(NH <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> <sup>2+</sup> : kinetische Analyse der Zwei-Schritt-Reaktion. <i>Angewandte Chemie</i> , 1992, 104, 1494-1496.	2.0	4
58	Discrimination Between BI and BII Conformational Substates of B-DNA Based on Sugar-base Interproton Distances. <i>Journal of Biomolecular Structure and Dynamics</i> , 2004, 21, 489-494.	3.5	3
59	Study of Intramolecular Competition between Carboxylate and Phosphonate for PtII with the Aid of a Novel Tridentate Carboxylato-Thioether-Phosphonato Ligand. <i>Chemistry - A European Journal</i> , 2007, 13, 5441-5449.	3.3	3
60	Protein environment affects the water-tryptophan binding mode. MD, QM/MM, and NMR studies of engrailed homeodomain mutants. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12664-12677.	2.8	3
61	Cisplatin GG-crosslinks within single-stranded DNA: Origin of the preference for left-handed helicity. <i>Journal of Inorganic Biochemistry</i> , 2012, 115, 106-112.	3.5	2
62	Molecular Modeling of Platinum Complexes with Oligonucleotides: Methodological Lessons and Structural Insights. , 1997, , 131-160.		2
63	Evaluation of dissociation constants from competition binding experiments based on the relative binding ratio. <i>Analytical Biochemistry</i> , 2011, 409, 66-73.	2.4	0
64	Frontispiece: Anion-Interactions in Flavoproteins Involve a Substantial Charge-Transfer Component. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0