

Ulrich Bierbach

List of Publications by Year in descending order

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80
papers

2,733
citations

126907

33
h-index

206112

48
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89
all docs

89
docs citations

89
times ranked

2409
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational and Experimental Characterization of rDNA and rRNA G-Quadruplexes. <i>Journal of Physical Chemistry B</i> , 2022, 126, 609-619.	2.6	4
2	Evaluation of a Platinum- α -Acridine Anticancer Agent and Its Liposomal Formulation in an in vivo Model of Lung Adenocarcinoma. <i>ChemMedChem</i> , 2021, 16, 412-419.	3.2	5
3	DNA Adduct Detection after Post-Labeling Technique with PCR Amplification (DNA-ADAPT-qPCR) Identifies the Pre-ribosomal RNA Gene as a Direct Target of Platinum- α -Acridine Anticancer Agents. <i>Chemistry - A European Journal</i> , 2021, 27, 14681-14689.	3.3	4
4	A membrane transporter determines the spectrum of activity of a potent platinum- α -acridine hybrid anticancer agent. <i>Scientific Reports</i> , 2020, 10, 15201.	3.3	10
5	Discovery of a Chiral DNA-Targeted Platinum- α -Acridine Agent with Potent Enantioselective Anticancer Activity. <i>Angewandte Chemie</i> , 2020, 132, 22149-22154.	2.0	2
6	Discovery of a Chiral DNA-Targeted Platinum- α -Acridine Agent with Potent Enantioselective Anticancer Activity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21965-21970.	13.8	9
7	Effects of platinum-based anticancer drugs on the trace element profile of liver and kidney tissue from mice. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 54, 62-68.	3.0	12
8	Effect of the nonleaving groups on the cellular uptake and cytotoxicity of platinum-acridine anticancer agents. <i>Inorganica Chimica Acta</i> , 2019, 492, 150-155.	2.4	7
9	Cysteine-Directed Bioconjugation of a Platinum(II)- α -Acridine Anticancer Agent. <i>Inorganic Chemistry</i> , 2019, 58, 43-46.	4.0	10
10	Platination of cysteine by an epidermal growth factor receptor kinase-targeted hybrid agent. <i>Chemical Communications</i> , 2018, 54, 7479-7482.	4.1	11
11	Large-Pore Functionalized Mesoporous Silica Nanoparticles as Drug Delivery Vector for a Highly Cytotoxic Hybrid Platinum- α -Acridine Anticancer Agent. <i>Chemistry - A European Journal</i> , 2017, 23, 3386-3397.	3.3	21
12	Human Serum Albumin-Delivered [Au(PEt ₃) ⁺] ₃ Is a Potent Inhibitor of T Cell Proliferation. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 572-576.	2.8	13
13	Zirconium tetraazamacrocyclic complexes display extraordinary stability and provide a new strategy for zirconium-89-based radiopharmaceutical development. <i>Chemical Science</i> , 2017, 8, 2309-2314.	7.4	87
14	Metal-Containing Pharmacophores in Molecularly Targeted Anticancer Therapies and Diagnostics. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1561-1572.	2.0	15
15	Design and cellular studies of a carbon nanotube-based delivery system for a hybrid platinum-acridine anticancer agent. <i>Journal of Inorganic Biochemistry</i> , 2016, 165, 170-180.	3.5	15
16	Au-ACRAMTU-PEt ₃ Alters Redox Balance To Inhibit T Cell Proliferation and Function. <i>Journal of Immunology</i> , 2015, 195, 1984-1994.	0.8	5
17	Synthesis, Reactivity, and Biological Activity of Gold(I) Complexes Modified with Thiourea-Functionalized Tyrosine Kinase Inhibitors. <i>Inorganic Chemistry</i> , 2015, 54, 3316-3324.	4.0	28
18	Cellular Recognition and Repair of Monofunctional- α -Intercalative Platinum-DNA Adducts. <i>Chemical Research in Toxicology</i> , 2015, 28, 2170-2178.	3.3	34

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19	Target-selective delivery and activation of platinum-based anticancer agents. <i>Future Medicinal Chemistry</i> , 2015, 7, 911-927.	2.3	15
20	Redesigning the DNA-Targeted Chromophore in Platinum-Acridine Anticancer Agents: A Structure-Activity Relationship Study. <i>Chemistry - A European Journal</i> , 2014, 20, 16174-16187.	3.3	43
21	Investigating the cellular fate of a DNA-targeted platinum-based anticancer agent by orthogonal double-click chemistry. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 415-426.	2.6	29
22	Design of Enzymatically Cleavable Prodrugs of a Potent Platinum-Containing Anticancer Agent. <i>Chemistry - A European Journal</i> , 2014, 20, 16164-16173.	3.3	24
23	PT-ACRAMTU, A Platinum-Acridine Anticancer Agent, Lengthens and Aggregates, but does not Stiffen or Soften DNA. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 1103-1113.	1.8	15
24	The Cell's Nucleolus: an Emerging Target for Chemotherapeutic Intervention. <i>ChemMedChem</i> , 2013, 8, 1441-1449.	3.2	51
25	Using Fluorescent Post-Labeling To Probe the Subcellular Localization of DNA-Targeted Platinum Anticancer Agents. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3350-3354.	13.8	74
26	Design of a platinum-acridine-endoxifen conjugate targeted at hormone-dependent breast cancer. <i>Chemical Communications</i> , 2013, 49, 2415.	4.1	21
27	Analysis of the DNA damage produced by a platinum-acridine antitumor agent and its effects in NCI-H460 lung cancer cells. <i>Metallomics</i> , 2012, 4, 645.	2.4	28
28	Using a Build-and-Click Approach for Producing Structural and Functional Diversity in DNA-Targeted Hybrid Anticancer Agents. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10198-10203.	6.4	46
29	Comparative Chemogenomics To Examine the Mechanism of Action of DNA-Targeted Platinum-Acridine Anticancer Agents. <i>ACS Chemical Biology</i> , 2012, 7, 1892-1901.	3.4	39
30	Synthesis, Aqueous Reactivity, and Biological Evaluation of Carboxylic Acid Ester-Functionalized Platinum-Acridine Hybrid Anticancer Agents. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 7817-7827.	6.4	43
31	DNA Metalating-Intercalating Hybrid Agents for the Treatment of Chemoresistant Cancers. <i>Chemistry - A European Journal</i> , 2012, 18, 12926-12934.	3.3	73
32	Unusual Reactivity of a Potent Platinum-Acridine Hybrid Antitumor Agent. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 687-691.	2.8	21
33	Inhibition of DNA Synthesis by a Platinum-Acridine Hybrid Agent Leads to Potent Cell Kill in Nonsmall Cell Lung Cancer. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 870-874.	2.8	44
34	Interactions of a Platinum-Modified Perylene Derivative with the Human Telomeric G-Quadruplex. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13701-13712.	2.6	29
35	Replacement of a Thiourea with an Amidine Group in a Monofunctional Platinum-Acridine Antitumor Agent. Effect on DNA Interactions, DNA Adduct Recognition and Repair. <i>Molecular Pharmaceutics</i> , 2011, 8, 1941-1954.	4.6	33
36	Rates of intercalator-driven platination of DNA determined by a restriction enzyme cleavage inhibition assay. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 373-380.	2.6	25

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37	Probing Platinum ^{II} -Adenine-N3 Adduct Formation with DNA Minor-Groove Binding Agents. <i>Chemical Research in Toxicology</i> , 2010, 23, 1148-1150.	3.3	10
38	Synthesis and biological evaluation of platinum ^{II} -acridine hybrid agents modified with bipyridine non-leaving groups. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3423-3425.	2.2	7
39	Gold(I) Analogues of a Platinum ^{II} -Acridine Antitumor Agent Are Only Moderately Cytotoxic but Show Potent Activity against <i>Mycobacterium tuberculosis</i> . <i>Journal of Medicinal Chemistry</i> , 2009, 52, 6519-6522.	6.4	44
40	Replacement of a Thiourea-S with an Amidine-NH Donor Group in a Platinum ^{II} -Acridine Antitumor Compound Reduces the Metal ^{II} 's Reactivity with Cysteine Sulfur. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3424-3427.	6.4	46
41	Effect of linkage geometry on biological activity in thiourea- and guanidine-substituted acridines and platinum ^{II} -acridines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3799-3801.	2.2	17
42	Tuning the DNA Conformational Perturbations Induced by Cytotoxic Platinum ^{II} -Acridine Bisintercalators: Effect of Metal Cis/Trans Isomerism and DNA Threading Groups. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 3069-3072.	6.4	18
43	A Non-Cross-Linking Platinum ^{II} -Acridine Agent with Potent Activity in Non-Small-Cell Lung Cancer. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 7574-7580.	6.4	100
44	Adenine-N3 in the DNA Minor Groove - An Emerging Target for Platinum Containing Anticancer Pharmacophores. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2007, 7, 125-138.	1.7	36
45	Unexpected Reactivity of the 9-Aminoacridine Chromophore in Guanidylations Reactions. <i>Journal of Organic Chemistry</i> , 2007, 72, 5387-5390.	3.2	12
46	Effect of the Diamine Nonleaving Group in Platinum ^{II} -Acridinylthiourea Conjugates on DNA Damage and Cytotoxicity. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 2259-2263.	6.4	44
47	Unexpected assembly of a novel triply bridged diiron(II) core by a bidentate Schiff base ligand. <i>Inorganica Chimica Acta</i> , 2007, 360, 2824-2828.	2.4	5
48	Kinetically Favored Platination of Adenine in the G-Rich Human Telomeric Repeat. <i>Journal of the American Chemical Society</i> , 2007, 129, 15764-15765.	13.7	39
49	Synthesis, Biological Activity, and DNA-Damage Profile of Platinum-Threading Intercalator Conjugates Designed To Target Adenine. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3204-3214.	6.4	41
50	Structure-Activity Relationships Within Di- and Trinuclear Platinum Phase-I Clinical Anticancer Agents. , 2006, , 477-496.		8
51	Guanine binding of a cytotoxic platinum ^{II} -acridin-9-ylthiourea conjugate monitored by 1-D 1H and 2-D [1H,15N] NMR spectroscopy: Hydrolysis is not the rate-determining step. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 972-979.	3.5	5
52	Characterization of the bisintercalative DNA binding mode of a bifunctional platinum-acridine agent. <i>Nucleic Acids Research</i> , 2005, 33, 5622-5632.	14.5	32
53	Synthesis, structure, and reactivity of monofunctional platinum(II) and palladium(II) complexes containing the sterically hindered ligand 6-(methylpyridin-2-yl)acetate. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 2013-2023.	3.5	16
54	A non-crosslinking platinum ^{II} -acridine hybrid agent shows enhanced cytotoxicity compared to clinical BCNU and cisplatin in glioblastoma cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 443-446.	2.2	25

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55	Platinum-acridinylthiourea conjugates show cell line-specific cytotoxic enhancement in H460 lung carcinoma cells compared to cisplatin. <i>Cancer Chemotherapy and Pharmacology</i> , 2005, 56, 337-343.	2.3	24
56	DNA Minor Groove Adducts Formed by a Platinum π Acridine Conjugate Inhibit Association of TATA-Binding Protein with Its Cognate Sequence. <i>Biochemistry</i> , 2005, 44, 11262-11268.	2.5	22
57	Duplex-Promoted Platination of Adenine-N3 in the Minor Groove of DNA: Challenging a Longstanding Bioinorganic Paradigm. <i>Journal of the American Chemical Society</i> , 2005, 127, 1160-1169.	13.7	49
58	Solution Structural Study of a DNA Duplex Containing the Guanine-N7 Adduct Formed by a Cytotoxic Platinum π Acridine Hybrid Agent. <i>Biochemistry</i> , 2005, 44, 6059-6070.	2.5	79
59	Platinum-Intercalator Conjugates: From DNA-Targeted Cisplatin Derivatives to Adenine Binding Complexes as Potential Modulators of Gene Regulation. <i>Current Topics in Medicinal Chemistry</i> , 2004, 4, 1537-1549.	2.1	99
60	Biophysical characterization and molecular modeling of the coordinative-intercalative DNA monoadduct of a platinum-acridinylthiourea agent in a site-specifically modified dodecamer. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 335-344.	2.6	24
61	Structure-activity relationships in platinum π acridinylthiourea conjugates: effect of the thiourea nonleaving group on drug stability, nucleobase affinity, and in vitro cytotoxicity. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 453-461.	2.6	42
62	Unique Base-Step Recognition by a Platinum π Acridinylthiourea Conjugate Leads to a DNA Damage Profile Complementary to That of the Anticancer Drug Cisplatin. <i>Biochemistry</i> , 2004, 43, 8560-8567.	2.5	32
63	Metal π Intercalator-Mediated Self-Association and One-Dimensional Aggregation in the Structure of the Excised Major DNA Adduct of a Platinum π Acridine Agent. <i>Journal of the American Chemical Society</i> , 2004, 126, 4492-4493.	13.7	39
64	Bis(acridinylthiourea)platinum(II) complexes: synthesis, DNA affinity, and biological activity in glioblastoma cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 855-858.	2.2	22
65	Unprecedented Monofunctional Metalation of Adenine Nucleobase in Guanine- and Thymine-Containing Dinucleotide Sequences by a Cytotoxic Platinum π Acridine Hybrid Agent. <i>Journal of the American Chemical Society</i> , 2003, 125, 9629-9637.	13.7	50
66	Unusual intercalation of acridin-9-ylthiourea into the 5'-GA/TC DNA base step from the minor groove: implications for the covalent DNA adduct profile of a novel platinum-intercalator conjugate. <i>Nucleic Acids Research</i> , 2003, 31, 4138-4146.	14.5	43
67	Thermally Inert Metal Amines as Light-Inducible DNA-Targeted Agents. Synthesis, Photochemistry, and Photobiology of a Prototypical Rhodium(III) π Intercalator Conjugate. <i>Inorganic Chemistry</i> , 2002, 41, 7159-7169.	4.0	14
68	Mechanism of action of non-cisplatin type DNA-targeted platinum anticancer agents: DNA interactions of novel acridinylthioureas and their platinum conjugates. <i>Biochemical Pharmacology</i> , 2002, 64, 191-200.	4.4	78
69	Cytotoxic acridinylthiourea and its platinum conjugate produce enzyme-mediated DNA strand breaks. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 2953-2955.	2.2	18
70	Design, Synthesis, and Biological Activity of a Novel Non-Cisplatin-type Platinum π Acridine Pharmacophore. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 4492-4496.	6.4	122
71	Modulation of the chemical and biological properties of trans platinum complexes: monofunctional platinum complexes containing one nucleobase as potential antiviral chemotypes. <i>Journal of Biological Inorganic Chemistry</i> , 2000, 5, 575-583.	2.6	33
72	Inversion of the Cis Geometry Requirement for Cytotoxicity in Structurally Novel Platinum(II) Complexes Containing the Bidentate N,O-Donor Pyridin-2-yl-acetate. <i>Inorganic Chemistry</i> , 2000, 39, 1882-1890.	4.0	44

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73	Synthesis, Structure, Biological Activity, and DNA Binding of Platinum(II) Complexes of the Type $\text{trans-[PtCl}_2(\text{NH}_3)\text{L}]$ (L = Planar Nitrogen Base). Effect of L and Cis/Trans Isomerism on Sequence Specificity and Unwinding Properties Observed in Globally Platinated DNA. <i>Inorganic Chemistry</i> , 1999, 38, 3535-3542.	4.0	103
74	DNA interactions of antitumor $\text{trans-[PtCl}_2(\text{NH}_3)(\text{quinoline})]$. <i>FEBS Journal</i> , 1998, 254, 547-557.	0.2	80
75	Structural and reactivity studies on the ternary system guanine/methionine/ $\text{trans-[PtCl}_2(\text{NH}_3)\text{L}]$ (L = NH_3 , quinoline): implications for the mechanism of action of nonclassical trans-platinum antitumor complexes. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 570-580.	2.6	26
76	Modification of Platinum(II) Antitumor Complexes with Sulfur Ligands. 2. Reactivity and Nucleotide Binding Properties of Cationic Complexes of the Types $[\text{PtCl}(\text{diamine})(\text{L})]\text{NO}_3$ and $[\{\text{PtCl}(\text{diamine})\}_2(\text{L-L})](\text{NO}_3)_2$ (L = Monofunctional Thiourea Derivative; L-L = Bifunctional Thiourea) <i>Tj ETQq0 0 0 4.0 35</i>	4.0	35
77	Modification of Platinum(II) Antitumor Complexes with Sulfur Ligands. 1. Synthesis, Structure, and Spectroscopic Properties of Cationic Complexes of the Types $[\text{PtCl}(\text{diamine})(\text{L})]\text{NO}_3$ and $[\{\text{PtCl}(\text{diamine})\}_2(\text{L-L})](\text{NO}_3)_2$ (L = Monofunctional Thiourea Derivative; L-L = Bifunctional Thiourea) <i>Tj ETQq1 1 0.784314 4.0 77</i>	4.0	77
78	Modulation of Nucleotide Binding of $\text{trans-Platinum(II)}$ Complexes by Planar Ligands. A Combined Proton NMR and Molecular Mechanics Study. <i>Inorganic Chemistry</i> , 1997, 36, 3657-3665.	4.0	46
79	Oxidative Addition of the Dithiobis(formamidinium) Cation to Platinum(II) Chloro Am(m)ine Compounds: A Study on Structure, Spectroscopic Properties, Reactivity, and Cytotoxicity of a New Class of Platinum(IV) Complexes Exhibiting S-Thiourea Coordination. <i>Inorganic Chemistry</i> , 1996, 35, 4865-4872.	4.0	38
80	$\text{FeI}_3\text{SC}(\text{NMe}_2)_2$, a Neutral Thiourea Complex of Iron(III) Iodide. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 776-777.	4.4	10