

# Xiaohua Peng

## List of Publications by Year in descending order

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36  
papers

1,354  
citations

331538

21  
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345118

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g-index

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all docs

37  
docs citations

37  
times ranked

1523  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen Peroxide Inducible DNA Cross-Linking Agents: Targeted Anticancer Prodrugs. <i>Journal of the American Chemical Society</i> , 2011, 133, 19278-19281.	6.6	270
2	ROS-activated anticancer prodrugs: a new strategy for tumor-specific damage. <i>Therapeutic Delivery</i> , 2012, 3, 823-833.	1.2	123
3	Reactive Oxygen Species (ROS) Inducible DNA Cross-Linking Agents and Their Effect on Cancer Cells and Normal Lymphocytes. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4498-4510.	2.9	79
4	Interstrand Cross-Link Formation in Duplex and Triplex DNA by Modified Pyrimidines. <i>Journal of the American Chemical Society</i> , 2008, 130, 10299-10306.	6.6	74
5	ROS-Inducible DNA Cross-Linking Agent as a New Anticancer Prodrug Building Block. <i>Chemistry - A European Journal</i> , 2012, 18, 3850-3854.	1.7	74
6	Base-Pairing, Tautomerism, and Mismatch Discrimination of 7-Halogenated 7-Deaza-2'-deoxyisoguanosine: A Oligonucleotide Duplexes with Parallel and Antiparallel Chain Orientation. <i>Journal of the American Chemical Society</i> , 2005, 127, 7739-7751.	6.6	50
7	Aromatic Nitrogen Mustard-Based Prodrugs: Activity, Selectivity, and the Mechanism of DNA Cross-Linking. <i>Chemistry - A European Journal</i> , 2014, 20, 7410-7418.	1.7	48
8	Photoswitchable Formation of a DNA Interstrand Cross-Link by a Coumarin-Modified Nucleotide. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7001-7005.	7.2	48
9	Substituent Effects on Oxidation-Induced Formation of Quinone Methides from Arylboronic Ester Precursors. <i>Chemistry - A European Journal</i> , 2013, 19, 9050-9058.	1.7	43
10	Replication termination mechanism as revealed by Tus-mediated polar arrest of a sliding helicase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12831-12836.	3.3	42
11	Discovery and Optimization of Novel Hydrogen Peroxide Activated Aromatic Nitrogen Mustard Derivatives as Highly Potent Anticancer Agents. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 9132-9145.	2.9	39
12	Facile SNP detection using bifunctional, cross-linking oligonucleotide probes. <i>Nucleic Acids Research</i> , 2008, 36, e31.	6.5	36
13	Nucleotide Excision Repair of a DNA Interstrand Cross-Link Produces Single- and Double-Strand Breaks. <i>Biochemistry</i> , 2010, 49, 11-19.	1.2	35
14	Quantitative DNA Interstrand Cross-Link Formation by Coumarin and Thymine: Structure Determination, Sequence Effect, and Fluorescence Detection. <i>Journal of Organic Chemistry</i> , 2014, 79, 11359-11369.	1.7	31
15	pH-Dependent mismatch discrimination of oligonucleotide duplexes containing 2'-deoxytubercidin and 2- or 7-substituted derivatives: protonated base pairs formed between 7-deazapurines and cytosine. <i>Nucleic Acids Research</i> , 2006, 34, 5987-6000.	6.5	30
16	The Leaving Group Strongly Affects H <sub>2</sub> O <sub>2</sub> -Induced DNA Cross-Linking by Arylboronates. <i>Journal of Organic Chemistry</i> , 2014, 79, 501-508.	1.7	30
17	A Template-Mediated Click-Click Reaction: PNA-DNA, PNA-PNA (or Peptide) Ligation, and Single Nucleotide Discrimination. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4194-4197.	1.2	28
18	Template-Directed Fluorogenic Oligonucleotide Ligation Using Click-Chemistry: Detection of Single Nucleotide Polymorphism in the Human p53 Tumor Suppressor Gene. <i>Bioconjugate Chemistry</i> , 2013, 24, 1226-1234.	1.8	28

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19	Hydrogen peroxide activated quinone methide precursors with enhanced DNA cross-linking capability and cytotoxicity towards cancer cells. <i>European Journal of Medicinal Chemistry</i> , 2017, 133, 197-207.	2.6	27
20	DNA-associated click chemistry. <i>Science China Chemistry</i> , 2014, 57, 215-231.	4.2	23
21	Recent Advances in Hydrogen Peroxide Responsive Organoborons for Biological and Biomedical Applications. <i>ChemBioChem</i> , 2022, 23, .	1.3	22
22	Protein Binding Has a Large Effect on Radical Mediated DNA Damage. <i>Journal of the American Chemical Society</i> , 2008, 130, 12890-12891.	6.6	21
23	Exploiting Endogenous Cellular Process to Generate Quinone Methides In Vivo. <i>Current Organic Chemistry</i> , 2014, 18, 70-85.	0.9	21
24	Hypoxia-Selective DNA Interstrand Cross-Link Formation by Two Modified Nucleosides. <i>Chemistry - A European Journal</i> , 2012, 18, 12609-12613.	1.7	19
25	Photochemical Generation of Benzyl Cations That Selectively Cross-Link Guanine and Cytosine in DNA. <i>Organic Letters</i> , 2016, 18, 2544-2547.	2.4	15
26	UV-Induced DNA Interstrand Cross-Linking and Direct Strand Breaks from a New Type of Binitroimidazole Analogue. <i>Chemical Research in Toxicology</i> , 2015, 28, 919-926.	1.7	14
27	Photoinduced DNA Interstrand Cross-Link Formation by Naphthalene Boronates via a Carbocation. <i>Chemistry - A European Journal</i> , 2016, 22, 10382-10386.	1.7	12
28	Coumarin-Induced DNA Ligation, Rearrangement to DNA Interstrand Crosslinks, and Photorelease of Coumarin Moiety. <i>ChemBioChem</i> , 2016, 17, 2046-2053.	1.3	11
29	Design, Synthesis, and Characterization of Binaphthalene Precursors as Photoactivated DNA Interstrand Cross-Linkers. <i>Journal of Organic Chemistry</i> , 2018, 83, 8815-8826.	1.7	11
30	Substituents Have a Large Effect on Photochemical Generation of Benzyl Cations and DNA Cross-Linking. <i>Chemistry - A European Journal</i> , 2018, 24, 7671-7682.	1.7	10
31	Novel DNA Cross-Linking Reagents. <i>Advances in Molecular Toxicology</i> , 2016, , 235-292.	0.4	6
32	Assessment of Phenylboronic Acid Nitrogen Mustards as Potent and Selective Drug Candidates for Triple-Negative Breast Cancer. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 687-702.	2.5	6
33	Base-Modified Oligodeoxyribonucleotides: Using Pyrrolo[2,3-d]pyrimidines to Replace Purines. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2005, 20, Unit 4.25.	0.5	5
34	Photoinduced DNA Interstrand Cross-Linking by Benzene Derivatives: Leaving Groups Determine the Efficiency of the Cross-Linker. <i>Journal of Organic Chemistry</i> , 2021, 86, 493-506.	1.7	5
35	Photoinduced DNA Interstrand Cross-Linking by 1,1'-Biphenyl Analogues: Substituents and Leaving Groups Combine to Determine the Efficiency of Cross-Linker. <i>Chemistry - A European Journal</i> , 2021, 27, 5215-5224.	1.7	4
36	Effect of Triazole-Modified Thymidines on DNA and RNA Duplex Stability. <i>ACS Omega</i> , 2019, 4, 5107-5116.	1.6	1