

# Zhenjun Yang

## List of Publications by Year in descending order

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84  
papers

1,807  
citations

331670

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302126

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87  
all docs

87  
docs citations

87  
times ranked

2481  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Aptamer Discoveries and Modifications for Therapeutic Applications. ACS Applied Materials & Interfaces, 2021, 13, 9500-9519.	8.0	287
2	Nucleolin-targeting liposomes guided by aptamer AS1411 for the delivery of siRNA for the treatment of malignant melanomas. Biomaterials, 2014, 35, 3840-3850.	11.4	234
3	Chemical modifications of nucleic acid drugs and their delivery systems for gene-based therapy. Medicinal Research Reviews, 2018, 38, 829-869.	10.5	108
4	Manipulation of gene expression in zebrafish using caged circular morpholino oligomers. Nucleic Acids Research, 2012, 40, 11155-11162.	14.5	58
5	Differential TGF $\beta$ 2 pathway targeting by miR-122 in humans and mice affects liver cancer metastasis. Nature Communications, 2016, 7, 11012.	12.8	47
6	Indolizine Derivatives as HIV-1 VIF-ElonginC Interaction Inhibitors. Chemical Biology and Drug Design, 2013, 81, 730-741.	3.2	46
7	RGD peptide conjugation results in enhanced antitumor activity of PD0325901 against glioblastoma by both tumor-targeting delivery and combination therapy. International Journal of Pharmaceutics, 2016, 505, 329-340.	5.2	45
8	Insights into the Molecular Mechanism of Inhibition and Drug Resistance for HIV-1 RT with Carbovir Triphosphate. Biochemistry, 2002, 41, 5150-5162.	2.5	42
9	Design, synthesis and biological evaluation of indolizine derivatives as HIV-1 VIF-ElonginC interaction inhibitors. Molecular Diversity, 2013, 17, 221-243.	3.9	41
10	Stability and bioactivity of thrombin binding aptamers modified with dC-dI-isothymidine in the loop regions. Organic and Biomolecular Chemistry, 2014, 12, 8866-8876.	2.8	38
11	Novel Use of a Guanosine Prodrug Approach To Convert 2',3'-Didehydro-2',3'-Dideoxyguanosine into a Viable Antiviral Agent. Antimicrobial Agents and Chemotherapy, 2002, 46, 887-891.	3.2	36
12	BODIPY-based sulfoxide: Synthesis, photophysical characterization and response to benzenethiols. Dyes and Pigments, 2013, 96, 328-332.	3.7	35
13	Bioactivity of 2-deoxyinosine-incorporated aptamer AS1411. Scientific Reports, 2016, 6, 25799.	3.3	35
14	tRNA modification profiles of the fast-proliferating cancer cells. Biochemical and Biophysical Research Communications, 2016, 476, 340-345.	2.1	33
15	The decreased N6-methyladenine DNA modification in cancer cells. Biochemical and Biophysical Research Communications, 2016, 480, 120-125.	2.1	31
16	Annealing novel nucleobase-lipids with oligonucleotides or plasmid DNA based on H-bonding or $\pi$ - $\pi$ interaction: Assemblies and transfections. Biomaterials, 2018, 178, 147-157.	11.4	31
17	Site-Specific Modification Using the 2-Methoxyethyl Group Improves the Specificity and Activity of siRNAs. Molecular Therapy - Nucleic Acids, 2017, 9, 242-250.	5.1	28
18	Structural optimization and additional targets identification of antisense oligonucleotide G3139 encapsulated in a neutral cytidinyl-lipid combined with a cationic lipid in vitro and in vivo. Biomaterials, 2019, 197, 182-193.	11.4	28

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19	The Bioactivity of D-/L-Isonucleoside- and 2-Deoxyinosine-Incorporated Aptamer AS1411s Including DNA Replication/MicroRNA Expression. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 9, 218-229.	5.1	24
20	Synthesis and recognition of novel isonucleoside triphosphates by DNA polymerases. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 3019-3025.	3.0	23
21	An oligonucleotide synthesizer based on a microreactor chip and an inkjet printer. <i>Scientific Reports</i> , 2019, 9, 5058.	3.3	22
22	Synthesis and biological evaluation of novel neamine nucleoside conjugates potentially targeting to RNAs. <i>Tetrahedron</i> , 2009, 65, 5228-5239.	1.9	21
23	The role of disulfide-bridge on the activities of H-shape gemini-like cationic lipid based siRNA delivery. <i>Journal of Controlled Release</i> , 2016, 235, 99-111.	9.9	21
24	Chemical modification improves the stability of the DNA aptamer GBI-10 and its affinity towards tenascin-C. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1174-1182.	2.8	21
25	Synthesis and Duplex Stabilization of Oligonucleotides Consisting of Isonucleosides. <i>Helvetica Chimica Acta</i> , 1999, 82, 2037-2043.	1.6	19
26	Effects of Conformational Alteration Induced by d-/l-Isonucleoside Incorporation in siRNA on Their Stability in Serum and Silencing Activity. <i>Bioconjugate Chemistry</i> , 2013, 24, 951-959.	3.6	18
27	A novel gemini-like cationic lipid for the efficient delivery of siRNA. <i>New Journal of Chemistry</i> , 2014, 38, 4952-4962.	2.8	18
28	Construction of a Targeting Nanoparticle of 2,3-Bis-Peptide-siRNA Conjugate/Mixed Lipid with Postinserted DSPE-PEG2000-cRGD. <i>Molecular Pharmaceutics</i> , 2019, 16, 4920-4928.	4.6	17
29	Novel nucleobase-simplified cyclic ADP-ribose analogue: A concise synthesis and Ca <sup>2+</sup> -mobilizing activity in T-lymphocytes. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1843.	2.8	16
30	Synthesis and SAR Study of Novel Peptide Aldehydes as Inhibitors of 20S Proteasome. <i>Molecules</i> , 2011, 16, 7551-7564.	3.8	16
31	Reductive nanocomplex encapsulation of cRGD-siRNA conjugates for enhanced targeting to cancer cells. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 7255-7272.	6.7	16
32	Reversible Photocontrol of Thrombin Activity by Replacing Loops of Thrombin Binding Aptamer using Azobenzene Derivatives. <i>Bioconjugate Chemistry</i> , 2019, 30, 231-241.	3.6	16
33	Synthesis and Biological Evaluation of RGD-Conjugated MEK1/2 Kinase Inhibitors for Integrin-Targeted Cancer Therapy. <i>Molecules</i> , 2013, 18, 13957-13978.	3.8	15
34	Unfolding and Conformational Variations of Thrombin-Binding DNA Aptamers: Synthesis, Circular Dichroism and Molecular Dynamics Simulations. <i>ChemMedChem</i> , 2014, 9, 993-1001.	3.2	15
35	Delivery Pathway Regulation of 2,3-Bis-Peptide-siRNA Conjugate via Nanocarrier Architecture Engineering. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 10, 75-90.	5.1	15
36	Studies on the adenosine deaminase-catalyzed conversion of adenosine and nucleoside prodrugs by different capillary electrophoresis modes. <i>Analytical Biochemistry</i> , 2011, 414, 131-137.	2.4	14

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37	Alkylation of phosphorothioated thrombin binding aptamers improves the selectivity of inhibition of tumor cell proliferation upon anticoagulation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1864-1869.	2.4	14
38	Supramolecular assemblies of novel aminonucleoside phospholipids and their bonding to nucleic acids. <i>Chemical Communications</i> , 2015, 51, 469-472.	4.1	13
39	Biological Properties of a 3 <sup>â€²</sup> ,3 <sup>â€²</sup> -Bis-Peptide-siRNA Conjugate in Vitro and in Vivo. <i>Bioconjugate Chemistry</i> , 2016, 27, 1131-1142.	3.6	13
40	Overcoming the delivery barrier of oligonucleotide drugs and enhancing nucleoside drug efficiency: The use of nucleolipids. <i>Medicinal Research Reviews</i> , 2020, 40, 1178-1199.	10.5	12
41	Concise Syntheses of Trifluoromethylated Cyclic and Acyclic Analogues of cADPR. <i>Molecules</i> , 2010, 15, 8689-8701.	3.8	11
42	Studies on the Synthesis of Nicotinamide Nucleoside and Nucleotide Analogues and Their Inhibitions towards CD38 NADase. <i>Heterocycles</i> , 2011, 83, 2837.	0.7	11
43	Rational preparation and application of a mRNA delivery system with cytidinyl/cationic lipid. <i>Journal of Controlled Release</i> , 2021, 340, 114-124.	9.9	11
44	Mirror-Image Thymidine Discriminates against Incorporation of Deoxyribonucleotide Triphosphate into DNA and Repairs Itself by DNA Polymerases. <i>Bioconjugate Chemistry</i> , 2017, 28, 2125-2134.	3.6	10
45	Preparation and In Vitro Evaluation of a MRI Contrast Agent Based on Aptamer-Modified Gadolinium-Loaded Liposomes for Tumor Targeting. <i>AAPS PharmSciTech</i> , 2017, 18, 1564-1571.	3.3	10
46	Long Double-Stranded Multiplex siRNAs for Dual Genes Silencing. <i>Nucleic Acid Therapeutics</i> , 2013, 23, 281-288.	3.6	9
47	Supramolecular Assembly Models of siRNA Delivery Systems. <i>Chinese Journal of Chemistry</i> , 2015, 33, 79-89.	4.9	9
48	Spatial conservation studies of nucleobases in 10 <sup>â€²</sup> 23 DNAzyme by 2 <sup>â€²</sup> -positioned isonucleotides and enantiomers for increased activity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4032-4038.	2.8	9
49	Synthesis and Antitumor Activity Evaluation of <sup>3</sup> â€²-Monofluorinated and <sup>3</sup> â€²-Difluorinated Goniothalamine Analogues. <i>Chinese Journal of Chemistry</i> , 2013, 31, 805-812.	4.9	8
50	Caged siRNAs with single folic acid modification of antisense RNA for photomodulation of exogenous and endogenous gene expression in cells. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7029-7035.	2.8	8
51	siRNA Packaged with Neutral Cytidinyl/Cationic/PEG Lipids for Enhanced Antitumor Efficiency and Safety <i>In Vitro</i> and <i>In Vivo</i> . <i>ACS Applied Bio Materials</i> , 2020, 3, 6297-6309.	4.6	8
52	Feasibility of cRGD conjugation at 5 <sup>â€²</sup> -antisense strand of siRNA by phosphodiester linkage extension. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 25, 603-612.	5.1	8
53	Synthesis and Calcium Mobilization Activity of cADPR Analogues Which Integrate Nucleobase, Northern and Southern Ribose Modifications. <i>Molecules</i> , 2012, 17, 4343-4356.	3.8	7
54	Studies on the preferred uracilâ€“adenine base pair at the cleavage site of 10 <sup>â€²</sup> 23 DNAzyme by functional group modifications on adenine. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4256-4263.	3.0	7

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55	Concise synthesis of novel acyclic analogues of cADPR with an ether chain as the northern moiety. <i>New Journal of Chemistry</i> , 2010, 34, 956.	2.8	6
56	Synthesis, physicochemical and biological properties of oligonucleotides incorporated with amino-isonucleosides. <i>Science China Chemistry</i> , 2012, 55, 70-79.	8.2	6
57	Exploring Directional Invasion of Serum Nuclease into siRNA Duplexes by Asymmetrical Terminal Modifications. <i>ChemMedChem</i> , 2014, 9, 2111-2119.	3.2	6
58	Isonucleotide incorporation into middle and terminal siRNA duplexes exhibits high gene silencing efficacy and nuclease resistance. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5161-5170.	2.8	6
59	Anticancer effects of combinational treatment with BRAFV600E siRNA and PI3K pathway inhibitors in melanoma cell lines harboring BRAFV600E. <i>Oncology Letters</i> , 2018, 16, 632-642.	1.8	6
60	A G-quadruplex nanoswitch in the SGK1 promoter regulates isoform expression by K <sup>+</sup> /Na <sup>+</sup> balance and resveratrol binding. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129778.	2.4	6
61	Activity and Tissue Distribution of Antisense Oligonucleotide CT102 Encapsulated with Cytidiny/Cationic Lipid against Hepatocellular Carcinoma. <i>Molecular Pharmaceutics</i> , 2022, 19, 4552-4564.	4.6	6
62	Mechanism of Anti-Human Immunodeficiency Virus Activity of Î <sup>2</sup> -d-6-Cyclopropylamino-2â€²,3â€²-Didehydro-2â€²,3â€²-Dideoxyguanosine. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 1994-2001.	3.2	5
63	Synthesis and biological evaluation of peptide-siRNA conjugates with phosphodiester unit as linker. <i>Science China Chemistry</i> , 2013, 56, 1542-1549.	8.2	5
64	<sc>d</sc>-Isothymidine incorporation in the core sequence of aptamer BC15 enhanced its binding affinity to the hnRNP A1 protein. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7488-7497.	2.8	5
65	Thymidine-based amphiphiles and their bonding to DNA. <i>New Journal of Chemistry</i> , 2013, 37, 1122.	2.8	4
66	Synthesis and Anti-HIV Activity of a Series of 6â€²-Modified 2â€²,3â€²-Dideoxyguanosine and 2â€²,3â€²-Dideoxy-2â€²,3â€²-dideoxyguanosine Analogs. <i>Chinese Journal of Chemistry</i> , 2013, 31, 1207-1218.	1.8	4
67	<sc>d</sc>-Isonucleotide (isoNA) incorporation around cleavage site of passenger strand promotes the vibration of Ago2-PAZ domain and enhances in vitro potency of siRNA. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10825-10833.	2.8	4
68	Transfection of 3â€²,3â€²-bis-peptide-siRNA conjugate by cationic lipoplexes mixed with a neutral cytosin-1-yl-lipid. <i>Journal of Chinese Pharmaceutical Sciences</i> , 2017, 26, .	0.1	4
69	Study on steady-state kinetics of nucleotide analogues incorporation by non-gel CE. <i>Electrophoresis</i> , 2010, 31, 507-511.	2.4	3
70	Synthesis of Salinosporamide A and Its Analogs as 20S Proteasome Inhibitors and SAR Summarization. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 2906-2922.	2.1	3
71	Loss of silencing activity caused by 5â€²-terminal modification with d-/l-isonucleotide (isoNA) or locked nucleic acid (LNA) could not be restored by 5â€²-terminal phosphorylation. <i>Science China Chemistry</i> , 2014, 57, 329-334.	8.2	3
72	Diminished serum repetin levels in patients with schizophrenia and bipolar disorder. <i>Scientific Reports</i> , 2015, 5, 7977.	3.3	3

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73	A subunit vaccine based on rH-NS induces protection against <i>Mycobacterium tuberculosis</i> infection by inducing the Th1 immune response and activating macrophages. <i>Acta Biochimica Et Biophysica Sinica</i> , 2016, 48, 909-922.	2.0	3
74	Replication of DNA Containing Mirror-Image Thymidine in <i>E. coli</i> Cells. <i>Chemical Research in Toxicology</i> , 2020, 33, 2276-2285.	3.3	3
75	Selective Anti-melanoma Effect of Phosphothioated Aptamer Encapsulated by Neutral Cytidinyl/Cationic Lipids. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 660233.	3.7	3
76	In vitro selection of G-rich RNA aptamers that target HIV-1 integrase. <i>Science in China Series B: Chemistry</i> , 2008, 51, 401-413.	0.8	2
77	Qualitative and Quantitative Determination of Oligonucleotides by Non-Gel Capillary Electrophoresis. <i>Chromatographia</i> , 2011, 73, 579-582.	1.3	2
78	Serum stability enhancement of siRNA caused by peptide conjugation at 3'-terminus of sense strand. <i>Journal of Chinese Pharmaceutical Sciences</i> , 2014, 23, .	0.1	1
79	Modification of oligonucleotides by isonucleosides incorporation and peptides conjugation. <i>Journal of Chinese Pharmaceutical Sciences</i> , 2012, 21, .	0.1	0
80	A novel method for the synthesis of sulfur substituted-cyclopyrophosphate of cADPR analogs. <i>Chinese Chemical Letters</i> , 2014, 25, 1583-1585.	9.0	0
81	Recent progress on siRNA conjugates. <i>Scientia Sinica Chimica</i> , 2016, 46, 633-642.	0.4	0
82	Assembly And Transfection Of Novel Nucleobase-Lipids. , 2018, , .		0
83	Synthesis and Evaluation of Novel Neamine- $\epsilon$ -Nucleoside Conjugates as Potential Antibiotic Targets for <i>Escherichia coli</i> 16S Ribosomal RNA. <i>Methods in Molecular Biology</i> , 2019, 1870, 151-163.	0.9	0
84	Optimization in Chemical Modification of Single-Stranded siRNA Encapsulated by Neutral Cytidinyl/Cationic Lipids. <i>Frontiers in Chemistry</i> , 2022, 10, 843181.	3.6	0