

# Xinjing Tang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

2,045

citations

27

h-index

41

g-index

94

ext. papers

2,342

ext. citations

7

avg, IF

5.24

L-index

#	Paper	IF	Citations
88	Raman beads for bio-imaging <b>2022</b> , 329-342		
87	Circular Antisense Oligonucleotides for Specific RNase-H-Mediated microRNA Inhibition with Reduced Off-Target Effects and Nonspecific Immunostimulation. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 16046-16055	8.3	1
86	Chemical Modification and Transformation Strategies of Guide RNAs in CRISPR-Cas9 Gene Editing Systems. <i>ChemPlusChem</i> , <b>2021</b> , 86, 587-600	2.8	0
85	Photomodulation of Caged RNA Oligonucleotide Functions in Living Systems. <i>ChemPhotoChem</i> , <b>2021</b> , 5, 12-21	3.3	3
84	Photoregulation of Gene Expression with Ligand-Modified Caged siRNAs through Host/Guest Interaction. <i>ChemBioChem</i> , <b>2021</b> , 22, 1901-1907	3.8	0
83	Efficient Inhibition of SARS-CoV-2 Using Chimeric Antisense Oligonucleotides through RNase L Activation**. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21830-21835	3.6	
82	Efficient Inhibition of SARS-CoV-2 Using Chimeric Antisense Oligonucleotides through RNase L Activation*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21662-21667	16.4	5
81	Feasibility of cRGD conjugation at 5Santisense strand of siRNA by phosphodiester linkage extension. <i>Molecular Therapy - Nucleic Acids</i> , <b>2021</b> , 25, 603-612	10.7	0
80	Redox manipulation of enzyme activity through physiologically active molecule. <i>IScience</i> , <b>2021</b> , 24, 102971	7.1	
79	Synthesis and "DNA Interlocks" Formation of Small Circular Oligodeoxynucleotides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12584-12590	9.5	3
78	Bioorthogonal SERS Nanotags as a Precision Theranostic Platform for SERS Imaging and Cancer Photothermal Therapy. <i>Bioconjugate Chemistry</i> , <b>2020</b> , 31, 182-193	6.3	22
77	Synthesis and Evaluation of Caged siRNAs with Single cRGD Modification for Photoregulating RNA Interference. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2115, 133-161	1.4	
76	Multimerized self-assembled caged siRNA nanoparticles for photomodulation of RNAi-induced gene silencing. <i>Chemical Science</i> , <b>2020</b> , 11, 12289-12297	9.4	3
75	Photoregulation of Gene Expression with Amantadine-Modified Caged siRNAs through Host-Guest Interactions. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 14002-14010	4.8	3
74	Optical Control of a CRISPR/Cas9 System for Gene Editing by Using Photolabile crRNA. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20895-20899	16.4	15
73	Compatibility and Fidelity of Mirror-Image Thymidine in Transcription Events by T7 RNA Polymerase. <i>Molecular Therapy - Nucleic Acids</i> , <b>2020</b> , 21, 604-613	10.7	0
72	Optical Control of a CRISPR/Cas9 System for Gene Editing by Using Photolabile crRNA. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21081-21085	3.6	4

71	Triton X-100-Modified Adenosine Triphosphate-Responsive siRNA Delivery Agent for Antitumor Therapy. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 3696-3708	5.6	7
70	Hydrogen sulfide lowers hyperhomocysteinemia dependent on cystathionine $\beta$ -lyase S-sulfhydration in ApoE-knockout atherosclerotic mice. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176, 3180-3192	8.6	12
69	Selective and sensitive detection of cyanate using 3-amino-2-naphthoic acid-based turn-on fluorescence probe. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 3613-3619	4.4	5
68	Dextran-Conjugated Caged siRNA Nanoparticles for Photochemical Regulation of RNAi-Induced Gene Silencing in Cells and Mice. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 1459-1465	6.3	13
67	Multicolor Cocktail for Breast Cancer Multiplex Phenotype Targeting and Diagnosis Using Bioorthogonal Surface-Enhanced Raman Scattering Nanoprobes. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11045-11054	7.8	24
66	Multicolor Raman Beads for Multiplexed Tumor Cell and Tissue Imaging and in Vivo Tumor Spectral Detection. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3784-3789	7.8	30
65	Microwave-assisted synthesis of nitrogen-rich carbon dots as effective fluorescent probes for sensitive detection of Ag <sup>+</sup> . <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 2751-2758	7.8	10
64	Reversible Photocontrol of Thrombin Activity by Replacing Loops of Thrombin Binding Aptamer using Azobenzene Derivatives. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 231-241	6.3	11
63	Cholesterol-Modified Caged siRNAs for Photoregulating Exogenous and Endogenous Gene Expression. <i>Bioconjugate Chemistry</i> , <b>2018</b> , 29, 1010-1015	6.3	19
62	Photomodulating Gene Expression by Using Caged siRNAs with Single-Aptamer Modification. <i>ChemBioChem</i> , <b>2018</b> , 19, 1259-1263	3.8	16
61	Bioorthogonal Metabolic DNA Labelling using Vinyl Thioether-Modified Thymidine and o-Quinolinone Quinone Methide. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 5895-5900	4.8	8
60	Circular siRNAs for Reducing Off-Target Effects and Enhancing Long-Term Gene Silencing in Cells and Mice. <i>Molecular Therapy - Nucleic Acids</i> , <b>2018</b> , 10, 237-244	10.7	24
59	Chemical modifications of nucleic acid drugs and their delivery systems for gene-based therapy. <i>Medicinal Research Reviews</i> , <b>2018</b> , 38, 829-869	14.4	75
58	Caged siRNAs with Single cRGD Modification for Photoregulation of Exogenous and Endogenous Gene Expression in Cells and Mice. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2526-2534	6.9	12
57	Caged circular siRNAs for photomodulation of gene expression in cells and mice. <i>Chemical Science</i> , <b>2018</b> , 9, 44-51	9.4	24
56	Selective tracking of ovarian-cancer-specific Eglutamyltranspeptidase using a ratiometric two-photon fluorescent probe. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 7439-7443	7.3	13
55	SERS Nanoprobes in Biologically Raman Silent Region for Tumor Cell Imaging and In Vivo Tumor Spectral Detection in Mice. <i>Advanced Biology</i> , <b>2018</b> , 2, 1800100	3.5	15
54	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> , <b>2018</b> , 16, 7029-7035	3.9	7

53	A Photochemical Avenue to Photoluminescent N-Dots and their Upconversion Cell Imaging. <i>Scientific Reports</i> , <b>2017</b> , 7, 1793	4.9	4
52	Mirror-Image Thymidine Discriminates against Incorporation of Deoxyribonucleotide Triphosphate into DNA and Repairs Itself by DNA Polymerases. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 2125-2134	6.3	5
51	Visualizing Hydrogen Sulfide in Mitochondria and Lysosome of Living Cells and in Tumors of Living Mice with Positively Charged Fluorescent Chemosensors. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9213-8	7.8	66
50	Photochemical Regulation of Gene Expression Using Caged siRNAs with Single Terminal Vitamin E Modification. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2152-6	16.4	40
49	Phosphate-perylene modified G-quadruplex probes for the detection of Pb using fluorescence anisotropy. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4330-4336	7.3	10
48	Sensitive Detection of Single-Nucleotide Mutation in the BRAF Mutation Site (V600E) of Human Melanoma Using Phosphate-Pyrene-Labeled DNA Probes. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 883-9	7.8	20
47	N-dots as a photoluminescent probe for the rapid and selective detection of Hg and Ag in aqueous solution. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 2086-2089	7.3	41
46	Photochemical Regulation of Gene Expression Using Caged siRNAs with Single Terminal Vitamin E Modification. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2192-2196	3.6	12
45	Synthesis and Evaluation of Caged siRNA with Terminal Single Vitamin E Modification. <i>Current Protocols in Nucleic Acid Chemistry</i> , <b>2016</b> , 67, 16.6.1-16.6.22	0.5	2
44	Microenvironmental Effect of 2SO-(1-Pyrenylmethyl)uridine Modified Fluorescent Oligonucleotide Probes on Sensitive and Selective Detection of Target RNA. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4448-55	7.8	5
43	Vitamin E-Labeled Polyethylenimine for in vitro and in vivo Gene Delivery. <i>Biomacromolecules</i> , <b>2016</b> , 17, 3153-3161	6.9	20
42	Photoregulating RNA digestion using azobenzene linked dumbbell antisense oligodeoxynucleotides. <i>Bioconjugate Chemistry</i> , <b>2015</b> , 26, 1070-9	6.3	19
41	Visualizing fluoride ion in mitochondria and lysosome of living cells and in living mice with positively charged ratiometric probes. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 8613-7	7.8	38
40	Photocaged Sequence-specific Interstrand DNA Cross-Linking with Photolabile 4-oxo-enal-modified Oligonucleotides. <i>Scientific Reports</i> , <b>2015</b> , 5, 10473	4.9	9
39	Heavy atom quenched coumarin probes for sensitive and selective detection of biothiols in living cells. <i>Analyst, The</i> , <b>2015</b> , 140, 4379-83	5	23
38	Photoswitching properties of hairpin ODNs with azobenzene derivatives at the loop position. <i>MedChemComm</i> , <b>2015</b> , 6, 461-468	5	10
37	Synthesis of Site-Specifically Phosphate-Caged siRNAs. <i>Current Protocols in Nucleic Acid Chemistry</i> , <b>2015</b> , 61, 6.12.1-6.12.15	0.5	2
36	Bioorthogonal SERS Nanoprobes for Multiplex Spectroscopic Detection, Tumor Cell Targeting, and Tissue Imaging. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 12914-8	4.8	27

35	Synthesis of photolabile dUTP analogues and their enzymatic incorporation for DNA labeling. <i>Science China Chemistry</i> , <b>2014</b> , 57, 322-328	7.9	1
34	Fluorogenic sensing of H <sub>2</sub> S in blood and living cells via reduction of aromatic dialkylamino N-oxide. <i>RSC Advances</i> , <b>2014</b> , 4, 30398-30401	3.7	14
33	Synthesis and unique photoluminescence properties of nitrogen-rich quantum dots and their applications. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12542-7	16.4	67
32	Synthesis of site-specifically phosphate-caged siRNAs and evaluation of their RNAi activity and stability. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 12114-22	4.8	28
31	Quaternary ammonium promoted ultra selective and sensitive fluorescence detection of fluoride ion in water and living cells. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 10006-9	7.8	59
30	Design, synthesis and properties of artificial nucleic acids from (R)-4-amino-butane-1,3-diol. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 2263-72	3.9	9
29	Chemoselective reduction and self-immolation based FRET probes for detecting hydrogen sulfide in solution and in cells. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 5629-33	3.9	27
28	Synthesis and Unique Photoluminescence Properties of Nitrogen-Rich Quantum Dots and Their Applications. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 12750-12755	3.6	29
27	Caged nucleotides/nucleosides and their photochemical biology. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 7814-24	3.9	30
26	Fluorescent probe for highly selective and sensitive detection of hydrogen sulfide in living cells and cardiac tissues. <i>Analyst, The</i> , <b>2013</b> , 138, 946-51	5	141
25	Synthesis and enzymatic incorporation of photolabile dUTP analogues into DNA and their applications for DNA labeling. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 6205-11	3.4	12
24	Synthesis of Light-Induced Expandable Photoresponsive Polymeric Nanoparticles for Triggered Release. <i>ChemPlusChem</i> , <b>2013</b> , 78, 1273-1281	2.8	10
23	Caged circular antisense oligonucleotides for photomodulation of RNA digestion and gene expression in cells. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 677-86	20.1	49
22	Photoresponsive cross-linked polymeric particles for phototriggered burst release. <i>Photochemistry and Photobiology</i> , <b>2013</b> , 89, 552-9	3.6	7
21	Chemoselective reduction-based fluorescence probe for detection of hydrogen sulfide in living cells. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 1919-23	4.4	34
20	Photocaging strategy for functionalisation of oligonucleotides and its applications for oligonucleotide labelling and cyclisation. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 9628-37	4.8	16
19	Photodegradable polyurethane self-assembled nanoparticles for photocontrollable release. <i>Langmuir</i> , <b>2012</b> , 28, 9387-94	4	69
18	Photodegradable polyesters for triggered release. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 16387-99	6.3	17

17	Manipulation of gene expression in zebrafish using caged circular morpholino oligomers. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 11155-62	20.1	45
16	Photosensitive cross-linked block copolymers with controllable release. <i>Photochemistry and Photobiology</i> , <b>2011</b> , 87, 646-52	3.6	22
15	Fluorescence detection of single-nucleotide polymorphism with single-strand triplex-forming DNA probes. <i>ChemBioChem</i> , <b>2011</b> , 12, 2863-70	3.8	10
14	Photomodulating RNA cleavage using photolabile circular antisense oligodeoxynucleotides. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 3848-55	20.1	42
13	A dumbbell molecular beacon for the specific recognition of nucleic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2010</b> , 20, 6547-50	2.9	10
12	RNA bandages for photoregulating in vitro protein synthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 6255-8	2.9	30
11	Regulating gene expression in human leukemia cells using light-activated oligodeoxynucleotides. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 559-69	20.1	71
10	Regulating gene expression with light-activated oligonucleotides. <i>Molecular BioSystems</i> , <b>2007</b> , 3, 100-10		129
9	Regulating gene expression in zebrafish embryos using light-activated, negatively charged peptide nucleic acids. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11000-1	16.4	103
8	Taking control of gene expression with light-activated oligonucleotides. <i>BioTechniques</i> , <b>2007</b> , 43, 161, 163, 165 passim	2.5	42
7	Controlling RNA digestion by RNase H with a light-activated DNA hairpin. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 3523-6	16.4	49
6	Controlling RNA Digestion by RNase H with a Light-Activated DNA Hairpin. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 3603-3606	3.6	13
5	Synthesis of light-activated antisense oligodeoxynucleotide. <i>Nature Protocols</i> , <b>2006</b> , 1, 3041-8	18.8	24
4	Phototriggering of caged fluorescent oligodeoxynucleotides. <i>Organic Letters</i> , <b>2005</b> , 7, 279-82	6.2	50
3	Photoregulation of DNA polymerase I (Klenow) with caged fluorescent oligodeoxynucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2005</b> , 15, 5303-6	2.9	30
2	Two-photon-pumped frequency-upconverted lasing and optical power limiting properties of vinylbenzothiazole-containing compounds in solution. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 5744-5747	3.6	16
1	Photochemical biology of caged nucleic acids. <i>Photochemistry</i> , 319-341	1.8	3