

# Xinjing Tang

## List of Publications by Year in descending order

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91  
papers

2,682  
citations

172457

29  
h-index

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94  
all docs

94  
docs citations

94  
times ranked

3028  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Raman beads for bio-imaging. , 2022, , 329-342.   |      | 0         |
| 2  | Tetrazine-Induced Bioorthogonal Activation of Vitamin E-Modified siRNA for Gene Silencing. Molecules, 2022, 27, 4377.   | 3.8  | 3         |
| 3  | Photomodulation of Caged RNA Oligonucleotide Functions in Living Systems. ChemPhotoChem, 2021, 5, 12-21.  | 3.0  | 7         |
| 4  | Photoregulation of Gene Expression with Ligand-Modified Caged siRNAs through Host/Guest Interaction. ChemBioChem, 2021, 22, 1901-1907.  | 2.6  | 1         |
| 5  | Chemical Modification and Transformation Strategies of Guide RNAs in CRISPR-Cas9 Gene Editing Systems. ChemPlusChem, 2021, 86, 587-600.   | 2.8  | 5         |
| 6  | Efficient Inhibition of SARS-CoV-2 Using Chimeric Antisense Oligonucleotides through RNase L Activation**. Angewandte Chemie, 2021, 133, 21830-21835.   | 2.0  | 3         |
| 7  | Efficient Inhibition of SARS-CoV-2 Using Chimeric Antisense Oligonucleotides through RNase L Activation**. Angewandte Chemie - International Edition, 2021, 60, 21662-21667.                                    | 13.8 | 21        |
| 8  | Frontispiz: Efficient Inhibition of SARS-CoV-2 Using Chimeric Antisense Oligonucleotides through RNase L Activation. Angewandte Chemie, 2021, 133, .  | 2.0  | 0         |
| 9  | Frontispiece: Efficient Inhibition of SARS-CoV-2 Using Chimeric Antisense Oligonucleotides through RNase L Activation. Angewandte Chemie - International Edition, 2021, 60, .                                   | 13.8 | 0         |
| 10 | Feasibility of cRGD conjugation at 5'-ant sense strand of siRNA by phosphodiester linkage extension. Molecular Therapy - Nucleic Acids, 2021, 25, 603-612.  | 5.1  | 8         |
| 11 | Redox manipulation of enzyme activity through physiologically active molecule. IScience, 2021, 24, 102977.  | 4.1  | 1         |
| 12 | Circular Antisense Oligonucleotides for Specific RNase-H-Mediated microRNA Inhibition with Reduced Off-Target Effects and Nonspecific Immunostimulation. Journal of Medicinal Chemistry, 2021, 64, 16046-16055. | 6.4  | 5         |
| 13 | Multimerized self-assembled caged two-in-one siRNA nanoparticles for photomodulation of RNAi-induced gene silencing. Chemical Science, 2020, 11, 12289-12297.   | 7.4  | 5         |
| 14 | Photoregulation of Gene Expression with Amantadine-Modified Caged siRNAs through Host-Guest Interactions. Chemistry - A European Journal, 2020, 26, 14002-14010.  | 3.3  | 5         |
| 15 | Optical Control of a CRISPR/Cas9 System for Gene Editing by Using Photolabile crRNA. Angewandte Chemie - International Edition, 2020, 59, 20895-20899.  | 13.8 | 31        |
| 16 | Compatibility and Fidelity of Mirror-Image Thymidine in Transcription Events by T7 RNA Polymerase. Molecular Therapy - Nucleic Acids, 2020, 21, 604-613.  | 5.1  | 2         |
| 17 | Optical Control of a CRISPR/Cas9 System for Gene Editing by Using Photolabile crRNA. Angewandte Chemie, 2020, 132, 21081-21085.   | 2.0  | 25        |
| 18 | Triton X-100-Modified Adenosine Triphosphate-Responsive siRNA Delivery Agent for Antitumor Therapy. Molecular Pharmaceutics, 2020, 17, 3696-3708.   | 4.6  | 11        |

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|----|---|------|-----------|
| 19 | Synthesis and $\alpha$ -DNA Interlocks $\beta$ -Formation of Small Circular Oligodeoxynucleotides. ACS Applied Materials & Interfaces, 2020, 12, 12584-12590.   | 8.0  | 9         |
| 20 | Bioorthogonal SERS Nanotags as a Precision Theranostic Platform for <i>in Vivo</i> SERS Imaging and Cancer Photothermal Therapy. Bioconjugate Chemistry, 2020, 31, 182-193.   | 3.6  | 50        |
| 21 | Synthesis and Evaluation of Caged siRNAs with Single cRGD Modification for Photoregulating RNA Interference. Methods in Molecular Biology, 2020, 2115, 133-161.   | 0.9  | 0         |
| 22 | Multicolor Cocktail for Breast Cancer Multiplex Phenotype Targeting and Diagnosis Using Bioorthogonal Surface-Enhanced Raman Scattering Nanoprobes. Analytical Chemistry, 2019, 91, 11045-11054.                    | 6.5  | 41        |
| 23 | Hydrogen sulfide lowers hyperhomocysteinemia dependent on cystathionine $\beta$ lyase $\beta$ -sulfhydration in ApoE $\beta$ -knockout atherosclerotic mice. British Journal of Pharmacology, 2019, 176, 3180-3192. | 5.4  | 27        |
| 24 | Selective and sensitive detection of cyanate using 3-amino-2-naphthoic acid-based turn-on fluorescence probe. Analytical and Bioanalytical Chemistry, 2019, 411, 3613-3619.   | 3.7  | 8         |
| 25 | Dextran-Conjugated Caged siRNA Nanoparticles for Photochemical Regulation of RNAi-Induced Gene Silencing in Cells and Mice. Bioconjugate Chemistry, 2019, 30, 1459-1465.  | 3.6  | 18        |
| 26 | Multicolor Raman Beads for Multiplexed Tumor Cell and Tissue Imaging and <i>in Vivo</i> Tumor Spectral Detection. Analytical Chemistry, 2019, 91, 3784-3789.  | 6.5  | 45        |
| 27 | Microwave-assisted synthesis of nitrogen-rich carbon dots as effective fluorescent probes for sensitive detection of Ag <sup>+</sup> . Materials Chemistry Frontiers, 2019, 3, 2751-2758.                           | 5.9  | 25        |
| 28 | Reversible Photocontrol of Thrombin Activity by Replacing Loops of Thrombin Binding Aptamer using Azobenzene Derivatives. Bioconjugate Chemistry, 2019, 30, 231-241.  | 3.6  | 16        |
| 29 | Cholesterol-Modified Caged siRNAs for Photoregulating Exogenous and Endogenous Gene Expression. Bioconjugate Chemistry, 2018, 29, 1010-1015.  | 3.6  | 28        |
| 30 | Photomodulating Gene Expression by Using Caged siRNAs with Single $\alpha$ -Aptamer Modification. ChemBioChem, 2018, 19, 1259-1263.   | 2.6  | 18        |
| 31 | In honor of Professor Li $\beta$ -He Zhang on the occasion of his 80th birthday. Medicinal Research Reviews, 2018, 38, 773-774.   | 10.5 | 0         |
| 32 | Bioorthogonal Metabolic DNA Labelling using Vinyl Thioether $\beta$ -Modified Thymidine and <i>in vivo</i> $\alpha$ -Quinolinone Quinone Methide. Chemistry - A European Journal, 2018, 24, 5895-5900.              | 3.3  | 15        |
| 33 | Circular siRNAs for Reducing Off-Target Effects and Enhancing Long-Term Gene Silencing in Cells and Mice. Molecular Therapy - Nucleic Acids, 2018, 10, 237-244.   | 5.1  | 36        |
| 34 | Chemical modifications of nucleic acid drugs and their delivery systems for gene $\beta$ -based therapy. Medicinal Research Reviews, 2018, 38, 829-869.   | 10.5 | 108       |
| 35 | Caged siRNAs with Single cRGD Modification for Photoregulation of Exogenous and Endogenous Gene Expression in Cells and Mice. Biomacromolecules, 2018, 19, 2526-2534.   | 5.4  | 17        |
| 36 | Caged circular siRNAs for photomodulation of gene expression in cells and mice. Chemical Science, 2018, 9, 44-51.   | 7.4  | 38        |

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|----|--|------|-----------|
| 37 | Selective tracking of ovarian-cancer-specific $\hat{1}^3$ -glutamyltranspeptidase using a ratiometric two-photon fluorescent probe. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7439-7443.            | 5.8  | 24        |
| 38 | SERS Nanoprobes in Biologically Raman Silent Region for Tumor Cell Imaging and In Vivo Tumor Spectral Detection in Mice. <i>Advanced Biology</i> , 2018, 2, 1800100.   | 3.0  | 20        |
| 39 | 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         |
| 40 | A Photochemical Avenue to Photoluminescent N-Dots and their Upconversion Cell Imaging. <i>Scientific Reports</i> , 2017, 7, 1793.  | 3.3  | 9         |
| 41 | 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        |
| 42 | Photochemical Regulation of Gene Expression Using Caged siRNAs with Single Terminal Vitamin E Modification. <i>Angewandte Chemie</i> , 2016, 128, 2192-2196.   | 2.0  | 15        |
| 43 | Synthesis and Evaluation of Caged siRNA with Terminal Single Vitamin E Modification. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2016, 67, 16.6.1-16.6.22.  | 0.5  | 2         |
| 44 | Microenvironmental Effect of 2-(1-Pyrenylmethyl)uridine Modified Fluorescent Oligonucleotide Probes on Sensitive and Selective Detection of Target RNA. <i>Analytical Chemistry</i> , 2016, 88, 4448-4455.   | 6.5  | 5         |
| 45 | Vitamin E-Labeled Polyethylenimine for <i>in vitro</i> and <i>in vivo</i> Gene Delivery. <i>Biomacromolecules</i> , 2016, 17, 3153-3161.   | 5.4  | 25        |
| 46 | 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> , 2016, 88, 9213-9218.  | 6.5  | 93        |
| 47 | Photochemical Regulation of Gene Expression Using Caged siRNAs with Single Terminal Vitamin E Modification. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2152-2156.                          | 13.8 | 51        |
| 48 | Phosphate-perylene modified G-quadruplex probes for the detection of Pb <sup>2+</sup> using fluorescence anisotropy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4330-4336.                           | 5.8  | 16        |
| 49 | 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> , 2016, 88, 883-889.            | 6.5  | 22        |
| 50 | N-dots as a photoluminescent probe for the rapid and selective detection of Hg <sup>2+</sup> and Ag <sup>+</sup> in aqueous solution. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2086-2089.          | 5.8  | 53        |
| 51 | Synthesis of Site-Specifically Phosphate-Caged siRNAs. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2015, 61, 6.12.1-6.12.15.  | 0.5  | 2         |
| 52 | Bioorthogonal SERS Nanoprobes for Multiplex Spectroscopic Detection, Tumor Cell Targeting, and Tissue Imaging. <i>Chemistry - A European Journal</i> , 2015, 21, 12914-12918.                                | 3.3  | 32        |
| 53 | Photoregulating RNA Digestion Using Azobenzene Linked Dumbbell Antisense Oligodeoxynucleotides. <i>Bioconjugate Chemistry</i> , 2015, 26, 1070-1079.   | 3.6  | 25        |
| 54 | Visualizing Fluoride Ion in Mitochondria and Lysosome of Living Cells and in Living Mice with Positively Charged Ratiometric Probes. <i>Analytical Chemistry</i> , 2015, 87, 8613-8617.                      | 6.5  | 45        |

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|----|--|------|-----------|
| 55 | Photocaged Sequence-specific Interstrand DNA Cross-Linking with Photolabile 4-oxo-enal-modified Oligonucleotides. <i>Scientific Reports</i> , 2015, 5, 10473.                          | 3.3  | 11        |
| 56 | Heavy atom quenched coumarin probes for sensitive and selective detection of biothiols in living cells. <i>Analyst</i> , 2015, 140, 4379-4383.   | 3.5  | 24        |
| 57 | Photoswitching properties of hairpin ODNs with azobenzene derivatives at the loop position. <i>MedChemComm</i> , 2015, 6, 461-468.   | 3.4  | 10        |
| 58 | Synthesis of photolabile dUTP analogues and their enzymatic incorporation for DNA labeling. <i>Science China Chemistry</i> , 2014, 57, 322-328.  | 8.2  | 1         |
| 59 | Fluorogenic sensing of H <sub>2</sub> S in blood and living cells via reduction of aromatic dialkylamino N-oxide. <i>RSC Advances</i> , 2014, 4, 30398-30401.                          | 3.6  | 16        |
| 60 | Synthesis and Unique Photoluminescence Properties of Nitrogen-Rich Quantum Dots and Their Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12542-12547.      | 13.8 | 159       |
| 61 | Synthesis of Site-Specifically Phosphate-Caged siRNAs and Evaluation of Their RNAi Activity and Stability. <i>Chemistry - A European Journal</i> , 2014, 20, 12114-12122.              | 3.3  | 30        |
| 62 | Quaternary Ammonium Promoted Ultra Selective and Sensitive Fluorescence Detection of Fluoride Ion in Water and Living Cells. <i>Analytical Chemistry</i> , 2014, 86, 10006-10009.      | 6.5  | 69        |
| 63 | Design, synthesis and properties of artificial nucleic acids from (R)-4-amino-butane-1,3-diol. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2263.                             | 2.8  | 13        |
| 64 | Chemoselective reduction and self-immolation based FRET probes for detecting hydrogen sulfide in solution and in cells. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5629.    | 2.8  | 32        |
| 65 | Caged nucleotides/nucleosides and their photochemical biology. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7814.   | 2.8  | 34        |
| 66 | Fluorescent probe for highly selective and sensitive detection of hydrogen sulfide in living cells and cardiac tissues. <i>Analyst</i> , 2013, 138, 946-951.                           | 3.5  | 162       |
| 67 | Synthesis and enzymatic incorporation of photolabile dUTP analogues into DNA and their applications for DNA labeling. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6205-6211. | 3.0  | 14        |
| 68 | Synthesis of Light-Induced Expandable Photoresponsive Polymeric Nanoparticles for Triggered Release. <i>ChemPlusChem</i> , 2013, 78, 1273-1281.  | 2.8  | 13        |
| 69 | Caged circular antisense oligonucleotides for photomodulation of RNA digestion and gene expression in cells. <i>Nucleic Acids Research</i> , 2013, 41, 677-686.                        | 14.5 | 60        |
| 70 | Photoresponsive Cross-Linked Polymeric Particles for Phototriggered Burst Release. <i>Photochemistry and Photobiology</i> , 2013, 89, 552-559.   | 2.5  | 9         |
| 71 | Photodegradable Polyesters for Triggered Release. <i>International Journal of Molecular Sciences</i> , 2012, 13, 16387-16399.  | 4.1  | 19        |
| 72 | Manipulation of gene expression in zebrafish using caged circular morpholino oligomers. <i>Nucleic Acids Research</i> , 2012, 40, 11155-11162.   | 14.5 | 58        |

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|----|--|------|-----------|
| 73 | Chemoselective reduction-based fluorescence probe for detection of hydrogen sulfide in living cells. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1919-1923.   | 3.7  | 38        |
| 74 | Photocaging Strategy for Functionalisation of Oligonucleotides and Its Applications for Oligonucleotide Labelling and Cyclisation. <i>Chemistry - A European Journal</i> , 2012, 18, 9628-9637.  | 3.3  | 17        |
| 75 | Photodegradable Polyurethane Self-Assembled Nanoparticles for Photocontrollable Release. <i>Langmuir</i> , 2012, 28, 9387-9394.  | 3.5  | 72        |
| 76 | Photosensitive Crosslinked Block Copolymers with Controllable Release. <i>Photochemistry and Photobiology</i> , 2011, 87, 646-652.   | 2.5  | 23        |
| 77 | Fluorescence Detection of Single Nucleotide Polymorphism with Single Strand Triplex Forming DNA Probes. <i>ChemBioChem</i> , 2011, 12, 2863-2870.  | 2.6  | 10        |
| 78 | A dumbbell molecular beacon for the specific recognition of nucleic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6547-6550.  | 2.2  | 10        |
| 79 | Photomodulating RNA cleavage using photolabile circular antisense oligodeoxynucleotides. <i>Nucleic Acids Research</i> , 2010, 38, 3848-3855.  | 14.5 | 47        |
| 80 | RNA bandages for photoregulating in vitro protein synthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 6255-6258.  | 2.2  | 38        |
| 81 | Regulating gene expression in human leukemia cells using light-activated oligodeoxynucleotides. <i>Nucleic Acids Research</i> , 2007, 36, 559-569.   | 14.5 | 79        |
| 82 | Regulating gene expression with light-activated oligonucleotides. <i>Molecular BioSystems</i> , 2007, 3, 100-110.  | 2.9  | 136       |
| 83 | Regulating Gene Expression in Zebrafish Embryos Using Light-Activated, Negatively Charged Peptide Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2007, 129, 11000-11001.   | 13.7 | 111       |
| 84 | Taking control of gene expression with light-activated oligonucleotides. <i>BioTechniques</i> , 2007, 43, 161-171.   | 1.8  | 42        |
| 85 | Synthesis of light-activated antisense oligodeoxynucleotide. <i>Nature Protocols</i> , 2006, 1, 3041-3048.   | 12.0 | 24        |
| 86 | Controlling RNA Digestion by RNase H with a Light-Activated DNA Hairpin. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3523-3526.   | 13.8 | 53        |
| 87 | Photoregulation of DNA polymerase I (Klenow) with caged fluorescent oligodeoxynucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 5303-5306.  | 2.2  | 31        |
| 88 | Phototriggering of Caged Fluorescent Oligodeoxynucleotides. <i>Organic Letters</i> , 2005, 7, 279-282.   | 4.6  | 56        |
| 89 | Two-photon-pumped frequency-upconverted lasing and optical power limiting properties of vinylbenzothiazole-containing compounds in solution<br>Electronic supplementary information (ESI) available: Single-crystal crystallographic data in cif format (CCDC reference number 189061). See <a href="http://www.rsc.org/suppdata/cp/b2/b206259c/">http://www.rsc.org/suppdata/cp/b2/b206259c/</a> . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5744-5747. | 2.8  | 16        |
| 90 | Photochemical biology of caged nucleic acids. <i>Photochemistry</i> , 0, , 319-341.  | 0.2  | 3         |

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|----|--|-----|-----------|
| 91 | Major Advances in Emerging Degradation Technologies. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, . | 3.7 | 4         |