Xinjing Tang

List of Publications by Year
in descending order

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91	2,682	172457	206112
papers	citations	29 h-index	48 g-index

94	94	94	3028
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescent probe for highly selective and sensitive detection of hydrogen sulfide in living cells and cardiac tissues. Analyst, The, 2013, 138, 946-951.	3.5	162
2	Synthesis and Unique Photoluminescence Properties of Nitrogenâ€Rich Quantum Dots and Their Applications. Angewandte Chemie - International Edition, 2014, 53, 12542-12547.	13.8	159
3	Regulating gene expression with light-activated oligonucleotides. Molecular BioSystems, 2007, 3, 100-110.	2.9	136
4	Regulating Gene Expression in Zebrafish Embryos Using Light-Activated, Negatively Charged Peptide Nucleic Acids. Journal of the American Chemical Society, 2007, 129, 11000-11001.	13.7	111
5	Chemical modifications of nucleic acid drugs and their delivery systems for geneâ€based therapy. Medicinal Research Reviews, 2018, 38, 829-869.	10.5	108
6	Visualizing Hydrogen Sulfide in Mitochondria and Lysosome of Living Cells and in Tumors of Living Mice with Positively Charged Fluorescent Chemosensors. Analytical Chemistry, 2016, 88, 9213-9218.	6.5	93
7	Regulating gene expression in human leukemia cells using light-activated oligodeoxynucleotides. Nucleic Acids Research, 2007, 36, 559-569.	14.5	79
8	Photodegradable Polyurethane Self-Assembled Nanoparticles for Photocontrollable Release. Langmuir, 2012, 28, 9387-9394.	3.5	72
9	Quaternary Ammonium Promoted Ultra Selective and Sensitive Fluorescence Detection of Fluoride Ion in Water and Living Cells. Analytical Chemistry, 2014, 86, 10006-10009.	6.5	69
10	Caged circular antisense oligonucleotides for photomodulation of RNA digestion and gene expression in cells. Nucleic Acids Research, 2013, 41, 677-686.	14.5	60
11	Manipulation of gene expression in zebrafish using caged circular morpholino oligomers. Nucleic Acids Research, 2012, 40, 11155-11162.	14.5	58
12	Phototriggering of Caged Fluorescent Oligodeoxynucleotides. Organic Letters, 2005, 7, 279-282.	4.6	56
13	Controlling RNA Digestion by RNase H with a Light-Activated DNA Hairpin. Angewandte Chemie - International Edition, 2006, 45, 3523-3526.	13.8	53
14	N-dots as a photoluminescent probe for the rapid and selective detection of Hg²⁺ and Ag⁺ in aqueous solution. Journal of Materials Chemistry B, 2016, 4, 2086-2089.	5.8	53
15	Photochemical Regulation of Gene Expression Using Caged siRNAs with Single Terminal Vitaminâ€…E Modification. Angewandte Chemie - International Edition, 2016, 55, 2152-2156.	13.8	51
16	Bioorthogonal SERS Nanotags as a Precision Theranostic Platform for in Vivo SERS Imaging and Cancer Photothermal Therapy. Bioconjugate Chemistry, 2020, 31, 182-193.	3.6	50
17	Photomodulating RNA cleavage using photolabile circular antisense oligodeoxynucleotides. Nucleic Acids Research, 2010, 38, 3848-3855.	14.5	47
18	Visualizing Fluoride Ion in Mitochondria and Lysosome of Living Cells and in Living Mice with Positively Charged Ratiometric Probes. Analytical Chemistry, 2015, 87, 8613-8617.	6.5	45

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19	Multicolor Raman Beads for Multiplexed Tumor Cell and Tissue Imaging and in Vivo Tumor Spectral Detection. Analytical Chemistry, 2019, 91, 3784-3789.	6.5	45
20	Taking control of gene expression with light-activated oligonucleotides. BioTechniques, 2007, 43, 161-171.	1.8	42
21	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
22	RNA bandages for photoregulating in vitro protein synthesis. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6255-6258.	2.2	38
23	Chemoselective reduction-based fluorescence probe for detection of hydrogen sulfide in living cells. Analytical and Bioanalytical Chemistry, 2012, 404, 1919-1923.	3.7	38
24	Caged circular siRNAs for photomodulation of gene expression in cells and mice. Chemical Science, 2018, 9, 44-51.	7.4	38
25	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
26	Caged nucleotides/nucleosides and their photochemical biology. Organic and Biomolecular Chemistry, 2013, 11, 7814.	2.8	34
27	Chemoselective reduction and self-immolation based FRET probes for detecting hydrogen sulfide in solution and in cells. Organic and Biomolecular Chemistry, 2014, 12, 5629.	2.8	32
28	Bioorthogonal SERS Nanoprobes for Mulitplex Spectroscopic Detection, Tumor Cell Targeting, and Tissue Imaging. Chemistry - A European Journal, 2015, 21, 12914-12918.	3.3	32
29	Photoregulation of DNA polymerase I (Klenow) with caged fluorescent oligodeoxynucleotides. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5303-5306.	2.2	31
30	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
31	Synthesis of Siteâ€Specifically Phosphateâ€Caged siRNAs and Evaluation of Their RNAi Activity and Stability. Chemistry - A European Journal, 2014, 20, 12114-12122.	3.3	30
32	Cholesterol-Modified Caged siRNAs for Photoregulating Exogenous and Endogenous Gene Expression. Bioconjugate Chemistry, 2018, 29, 1010-1015.	3.6	28
33	Hydrogen sulfide lowers hyperhomocysteinemia dependent on cystathionine Î³ lyase Sâ€sulfhydration in ApoEâ€knockout atherosclerotic mice. British Journal of Pharmacology, 2019, 176, 3180-3192.	5.4	27
34	Photoregulating RNA Digestion Using Azobenzene Linked Dumbbell Antisense Oligodeoxynucleotides. Bioconjugate Chemistry, 2015, 26, 1070-1079.	3.6	25
35	Vitamin E-Labeled Polyethylenimine for in vitro and in vivo Gene Delivery. Biomacromolecules, 2016, 17, 3153-3161.	5.4	25
36	Microwave-assisted synthesis of nitrogen-rich carbon dots as effective fluorescent probes for sensitive detection of Ag⁺. Materials Chemistry Frontiers, 2019, 3, 2751-2758.	5.9	25

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37	Optical Control of a CRISPR/Cas9 System for Gene Editing by Using Photolabile crRNA. Angewandte Chemie, 2020, 132, 21081-21085.	2.0	25
38	Synthesis of light-activated antisense oligodeoxynucleotide. Nature Protocols, 2006, 1, 3041-3048.	12.0	24
39	Heavy atom quenched coumarin probes for sensitive and selective detection of biothiols in living cells. Analyst, The, 2015, 140, 4379-4383.	3.5	24
40	Selective tracking of ovarian-cancer-specific Î³-glutamyltranspeptidase using a ratiometric two-photon fluorescent probe. Journal of Materials Chemistry B, 2018, 6, 7439-7443.	5.8	24
41	Photosensitive Crossâ€linked Block Copolymers with Controllable Release. Photochemistry and Photobiology, 2011, 87, 646-652.	2.5	23
42	Sensitive Detection of Single-Nucleotide Mutation in the BRAF Mutation Site (V600E) of Human Melanoma Using Phosphateâ€“Pyrene-Labeled DNA Probes. Analytical Chemistry, 2016, 88, 883-889.	6.5	22
43	Efficient Inhibition of SARSâ€CoVâ€2 Using Chimeric Antisense Oligonucleotides through RNase L Activation**. Angewandte Chemie - International Edition, 2021, 60, 21662-21667.	13.8	21
44	SERS Nanoprobes in Biologically Raman Silent Region for Tumor Cell Imaging and In Vivo Tumor Spectral Detection in Mice. Advanced Biology, 2018, 2, 1800100.	3.0	20
45	Photodegradable Polyesters for Triggered Release. International Journal of Molecular Sciences, 2012, 13, 16387-16399.	4.1	19
46	Photomodulating Gene Expression by Using Caged siRNAs with Singleâ€Aptamer Modification. ChemBioChem, 2018, 19, 1259-1263.	2.6	18
47	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
48	Photocaging Strategy for Functionalisation of Oligonucleotides and Its Applications for Oligonucleotide Labelling and Cyclisation. Chemistry - A European Journal, 2012, 18, 9628-9637.	3.3	17
49	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
50	Two-photon-pumped frequency-upconverted lasing and optical power limiting properties of vinylbenzothiazole-containing compounds in solutionElectronic supplementary information (ESI) available: Single-crystal crystallographic data in cif format (CCDC reference number 189061). See http://www.rsc.org/suppdata/cp/b2/b206259c/. Physical Chemistry Chemical Physics, 2002, 4, 5744-5747.	2.8	16
51	Fluorogenic sensing of H₂S in blood and living cells via reduction of aromatic dialkylamino N-oxide. RSC Advances, 2014, 4, 30398-30401.	3.6	16
52	Phosphate-perylene modified G-quadruplex probes for the detection of Pb2+ using fluorescence anisotropy. Journal of Materials Chemistry B, 2016, 4, 4330-4336.	5.8	16
53	Reversible Photocontrol of Thrombin Activity by Replacing Loops of Thrombin Binding Aptamer using Azobenzene Derivatives. Bioconjugate Chemistry, 2019, 30, 231-241.	3.6	16
54	Photochemical Regulation of Gene Expression Using Caged siRNAs with Single Terminal Vitaminâ€…E Modification. Angewandte Chemie, 2016, 128, 2192-2196.	2.0	15

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55	Bioorthogonal Metabolic DNA Labelling using Vinyl Thioetherâ€Modified Thymidine and oâ€Quinolinone Quinone Methide. Chemistry - A European Journal, 2018, 24, 5895-5900.	3.3	15
56	Synthesis and enzymatic incorporation of photolabile dUTP analogues into DNA and their applications for DNA labeling. Bioorganic and Medicinal Chemistry, 2013, 21, 6205-6211.	3.0	14
57	Synthesis of Lightâ€Induced Expandable Photoresponsive Polymeric Nanoparticles for Triggered Release. ChemPlusChem, 2013, 78, 1273-1281.	2.8	13
58	Design, synthesis and properties of artificial nucleic acids from (R)-4-amino-butane-1,3-diol. Organic and Biomolecular Chemistry, 2014, 12, 2263.	2.8	13
59	Photouncaged Sequence-specific Interstrand DNA Cross-Linking with Photolabile 4-oxo-enal-modified Oligonucleotides. Scientific Reports, 2015, 5, 10473.	3.3	11
60	Triton X-100-Modified Adenosine Triphosphate-Responsive siRNA Delivery Agent for Antitumor Therapy. Molecular Pharmaceutics, 2020, 17, 3696-3708.	4.6	11
61	A dumbbell molecular beacon for the specific recognition of nucleic acids. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6547-6550.	2.2	10
62	Fluorescence Detection of Singleâ€Nucleotide Polymorphism with Singleâ€Strand Triplexâ€Forming DNA Probes. ChemBioChem, 2011, 12, 2863-2870.	2.6	10
63	Photoswitching properties of hairpin ODNs with azobenzene derivatives at the loop position. MedChemComm, 2015, 6, 461-468.	3.4	10
64	Mirror-Image Thymidine Discriminates against Incorporation of Deoxyribonucleotide Triphosphate into DNA and Repairs Itself by DNA Polymerases. Bioconjugate Chemistry, 2017, 28, 2125-2134.	3.6	10
65	Photoresponsive Crossâ€linked Polymeric Particles for Phototriggered Burst Release. Photochemistry and Photobiology, 2013, 89, 552-559.	2.5	9
66	A Photochemical Avenue to Photoluminescent N-Dots and their Upconversion Cell Imaging. Scientific Reports, 2017, 7, 1793.	3.3	9
67	Synthesis and â€œDNA Interlocksâ€•Formation of Small Circular Oligodeoxynucleotides. ACS Applied Materials & Interfaces, 2020, 12, 12584-12590.	8.0	9
68	Caged siRNAs with single folic acid modification of antisense RNA for photomodulation of exogenous and endogenous gene expression in cells. Organic and Biomolecular Chemistry, 2018, 16, 7029-7035.	2.8	8
69	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
70	Feasibility of cRGD conjugation at 5â€²-antisense strand of siRNA by phosphodiester linkage extension. Molecular Therapy - Nucleic Acids, 2021, 25, 603-612.	5.1	8
71	Photomodulation of Caged RNA Oligonucleotide Functions in Living Systems. ChemPhotoChem, 2021, 5, 12-21.	3.0	7
72	Microenvironmental Effect of 2â€²-O-(1-Pyrenylmethyl)uridine Modified Fluorescent Oligonucleotide Probes on Sensitive and Selective Detection of Target RNA. Analytical Chemistry, 2016, 88, 4448-4455.	6.5	5

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73	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
74	Photoregulation of Gene Expression with Amantadineâ€Modified Caged siRNAs through Hostâ€“Guest Interactions. Chemistry - A European Journal, 2020, 26, 14002-14010.	3.3	5
75	Chemical Modification and Transformation Strategies of Guide RNAs in CRISPRâ€Cas9 Gene Editing Systems. ChemPlusChem, 2021, 86, 587-600.	2.8	5
76	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
77	Major Advances in Emerging Degrader Technologies. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	4
78	Efficient Inhibition of SARSâ€CoVâ€2 Using Chimeric Antisense Oligonucleotides through RNase L Activation**. Angewandte Chemie, 2021, 133, 21830-21835.	2.0	3
79	Photochemical biology of caged nucleic acids. Photochemistry, 0, , 319-341.	0.2	3
80	Tetrazine-Induced Bioorthogonal Activation of Vitamin E-Modified siRNA for Gene Silencing. Molecules, 2022, 27, 4377.	3.8	3
81	Synthesis of Siteâ€Specifically Phosphateâ€Caged siRNAs. Current Protocols in Nucleic Acid Chemistry, 2015, 61, 6.12.1-6.12.15.	0.5	2
82	Synthesis and Evaluation of Caged siRNA with Terminal Single Vitamin E Modification. Current Protocols in Nucleic Acid Chemistry, 2016, 67, 16.6.1-16.6.22.	0.5	2
83	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
84	Synthesis of photolabile dUTP analogues and their enzymatic incorporation for DNA labeling. Science China Chemistry, 2014, 57, 322-328.	8.2	1
85	Photoregulation of Gene Expression with Ligandâ€Modified Caged siRNAs through Host/Guest Interaction. ChemBioChem, 2021, 22, 1901-1907.	2.6	1
86	Redox manipulation of enzyme activity through physiologically active molecule. IScience, 2021, 24, 102977.	4.1	1
87	In honor of Professor Liâ€He Zhang on the occasion of his 80th birthday. Medicinal Research Reviews, 2018, 38, 773-774.	10.5	0
88	Frontispiz: Efficient Inhibition of SARSâ€CoVâ€2 Using Chimeric Antisense Oligonucleotides through RNase L Activation. Angewandte Chemie, 2021, 133, .	2.0	0
89	Frontispiece: Efficient Inhibition of SARSâ€CoVâ€2 Using Chimeric Antisense Oligonucleotides through RNase L Activation. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
90	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

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91	Raman beads for bio-imaging. , 2022, , 329-342.		0