

Jingyue Ju

List of Publications by Year in descending order

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90
papers

14,504
citations

46984

47
h-index

54882

84
g-index

96
all docs

96
docs citations

96
times ranked

18349
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mammalian microRNA Expression Atlas Based on Small RNA Library Sequencing. <i>Cell</i> , 2007, 129, 1401-1414.	13.5	3,390
2	Identification of Virus-Encoded MicroRNAs. <i>Science</i> , 2004, 304, 734-736.	6.0	1,474
3	A novel class of small RNAs bind to MILI protein in mouse testes. <i>Nature</i> , 2006, 442, 203-207.	13.7	1,303
4	Identification of microRNAs of the herpesvirus family. <i>Nature Methods</i> , 2005, 2, 269-276.	9.0	1,073
5	Cellular cofactors affecting hepatitis C virus infection and replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12884-12889.	3.3	511
6	Quantitative technologies establish a novel microRNA profile of chronic lymphocytic leukemia. <i>Blood</i> , 2007, 109, 4944-4951.	0.6	471
7	The Genomic Sequence of the Accidental Pathogen <i>Legionella pneumophila</i> . <i>Science</i> , 2004, 305, 1966-1968.	6.0	452
8	Large-scale structure of genomic methylation patterns. <i>Genome Research</i> , 2005, 16, 157-163.	2.4	325
9	Neuronal Transcriptome of Aplysia: Neuronal Compartments and Circuitry. <i>Cell</i> , 2006, 127, 1453-1467.	13.5	310
10	The developmental miRNA profiles of zebrafish as determined by small RNA cloning. <i>Genes and Development</i> , 2005, 19, 1288-1293.	2.7	301
11	Click Chemistry to Construct Fluorescent Oligonucleotides for DNA Sequencing. <i>Journal of Organic Chemistry</i> , 2003, 68, 609-612.	1.7	224
12	Nucleotide Analogues as Inhibitors of SARS-CoV-2 Polymerase, a Key Drug Target for COVID-19. <i>Journal of Proteome Research</i> , 2020, 19, 4690-4697.	1.8	223
13	Quantitative evaluation of all hexamers as exonic splicing elements. <i>Genome Research</i> , 2011, 21, 1360-1374.	2.4	207
14	Four-color DNA sequencing by synthesis using cleavable fluorescent nucleotide reversible terminators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19635-19640.	3.3	179
15	Centrotemporal sharp wave EEG trait in rolandic epilepsy maps to Elongator Protein Complex 4 (ELP4). <i>European Journal of Human Genetics</i> , 2009, 17, 1171-1181.	1.4	176
16	Fluorescent Hybridization Probes for Sensitive and Selective DNA and RNA Detection. <i>Accounts of Chemical Research</i> , 2007, 40, 402-409.	7.6	174
17	Computational prediction of methylation status in human genomic sequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10713-10716.	3.3	154
18	1,3-Dipolar cycloaddition of azides with electron-deficient alkynes under mild condition in water. <i>Tetrahedron Letters</i> , 2004, 45, 3143-3146.	0.7	152

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19	Diagnostic System for Rapid and Sensitive Differential Detection of Pathogens. <i>Emerging Infectious Diseases</i> , 2005, 11, 310-313.	2.0	148
20	Four-color DNA sequencing with 3'-OH-modified nucleotide reversible terminators and chemically cleavable fluorescent dideoxynucleotides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9145-9150.	3.3	138
21	Surface-Enhanced Raman Spectroscopy Based Quantitative Bioassay on Aptamer-Functionalized Nanopillars Using Large-Area Raman Mapping. <i>ACS Nano</i> , 2013, 7, 5350-5359.	7.3	124
22	Photocleavable fluorescent nucleotides for DNA sequencing on a chip constructed by site-specific coupling chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5488-5493.	3.3	121
23	Four-color DNA sequencing by synthesis on a chip using photocleavable fluorescent nucleotides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5926-5931.	3.3	116
24	Real-time single-molecule electronic DNA sequencing by synthesis using polymer-tagged nucleotides on a nanopore array. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5233-5238.	3.3	114
25	PEG-Labeled Nucleotides and Nanopore Detection for Single Molecule DNA Sequencing by Synthesis. <i>Scientific Reports</i> , 2012, 2, 684.	1.6	109
26	DNA sequencing using a four-color confocal fluorescence capillary array scanner. <i>Electrophoresis</i> , 1996, 17, 1852-1859.	1.3	107
27	Energy transfer primers: A new fluorescence labeling paradigm for DNA sequencing and analysis. <i>Nature Medicine</i> , 1996, 2, 246-249.	15.2	101
28	Pyrene binary probes for unambiguous detection of mRNA using time-resolved fluorescence spectroscopy. <i>Nucleic Acids Research</i> , 2006, 34, 3161-3168.	6.5	101
29	A library of nucleotide analogues terminate RNA synthesis catalyzed by polymerases of coronaviruses that cause SARS and COVID-19. <i>Antiviral Research</i> , 2020, 180, 104857.	1.9	100
30	Fluorescent hybridization probes for nucleic acid detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3115-3125.	1.9	94
31	Triple Fluorescence Energy Transfer in Covalently Trichromophore-Labeled DNA. <i>Journal of the American Chemical Society</i> , 2001, 123, 12923-12924.	6.6	91
32	Rapid Sizing of Short Tandem Repeat Alleles Using Capillary Array Electrophoresis and Energy-Transfer Fluorescent Primers. <i>Analytical Chemistry</i> , 1995, 67, 1197-1203.	3.2	87
33	Combinatorial fluorescence energy transfer tags for multiplex biological assays. <i>Nature Biotechnology</i> , 2001, 19, 756-759.	9.4	85
34	Design and synthesis of a 3'-O-allyl photocleavable fluorescent nucleotide as a reversible terminator for DNA sequencing by synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5932-5937.	3.3	74
35	Site-Specific Fluorescent Labeling of DNA Using Staudinger Ligation. <i>Bioconjugate Chemistry</i> , 2003, 14, 697-701.	1.8	67
36	Molecular beacons with intrinsically fluorescent nucleotides. <i>Nucleic Acids Research</i> , 2006, 34, e50-e50.	6.5	66

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37	Mass-spectrometry DNA sequencing. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2005, 573, 3-12.	0.4	65
38	MassTag Polymerase Chain Reaction for Differential Diagnosis of Viral Hemorrhagic Fevers. Emerging Infectious Diseases, 2006, 12, 692-695.	2.0	65
39	Sofosbuvir terminated RNA is more resistant to SARS-CoV-2 proofreader than RNA terminated by Remdesivir. Scientific Reports, 2020, 10, 16577.	1.6	65
40	<i>In vitro</i> antiviral activity of the anti-HCV drugs daclatasvir and sofosbuvir against SARS-CoV-2, the aetiological agent of COVID-19. Journal of Antimicrobial Chemotherapy, 2021, 76, 1874-1885.	1.3	65
41	A photocleavable fluorescent nucleotide for DNA sequencing and analysis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 414-419.	3.3	60
42	An Integrated System for DNA Sequencing by Synthesis Using Novel Nucleotide Analogues. Accounts of Chemical Research, 2010, 43, 551-563.	7.6	60
43	Inorganic-Organic Hybrid Luminescent Binary Probe for DNA Detection Based on Spin-Forbidden Resonance Energy Transfer. Journal of the American Chemical Society, 2007, 129, 8680-8681.	6.6	59
44	Nucleotide analogues as inhibitors of SARS-CoV Polymerase. Pharmacology Research and Perspectives, 2020, 8, e00674.	1.1	56
45	High-resolution capillary array electrophoretic sizing of multiplexed short tandem repeat loci using energy-transfer fluorescent primers. Electrophoresis, 1996, 17, 1485-1490.	1.3	55
46	Saturation mutagenesis reveals manifold determinants of exon definition. Genome Research, 2018, 28, 11-24.	2.4	55
47	Photocleavage of a 2-nitrobenzyl linker bridging a fluorophore to the 5' end of DNA. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 409-413.	3.3	53
48	Cyanine Dyes with High Absorption Cross Section as Donor Chromophores in Energy Transfer Primers. Analytical Biochemistry, 1996, 243, 15-27.	1.1	52
49	A strategy to capture and characterize the synaptic transcriptome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7464-7469.	3.3	49
50	Design and characterization of a nanopore-coupled polymerase for single-molecule DNA sequencing by synthesis on an electrode array. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6749-E6756.	3.3	46
51	Design and Synthesis of a Photocleavable Fluorescent Nucleotide 3'-O-Allyl-dGTP-PC-Bodipy-FL-510 as a Reversible Terminator for DNA Sequencing by Synthesis. Journal of Organic Chemistry, 2006, 71, 3248-3252.	1.7	43
52	3'-O-modified nucleotides as reversible terminators for pyrosequencing. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16462-16467.	3.3	42
53	Solid phase capturable dideoxynucleotides for multiplex genotyping using mass spectrometry. Nucleic Acids Research, 2002, 30, 85e-85.	6.5	41
54	Click-Functional Block Copolymers Provide Precise Surface Functionality via Spin Coating. Langmuir, 2008, 24, 7450-7456.	1.6	40

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55	Combination of antiviral drugs inhibits SARS-CoV-2 polymerase and exonuclease and demonstrates COVID-19 therapeutic potential in viral cell culture. <i>Communications Biology</i> , 2022, 5, 154.	2.0	40
56	Spectroscopic investigation of a FRET molecular beacon containing two fluorophores for probing DNA/RNA sequences. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 493.	1.6	36
57	Design and characterization of two-dye and three-dye binary fluorescent probes for mRNA detection. <i>Tetrahedron</i> , 2007, 63, 3591-3600.	1.0	34
58	Energy Transfer Primers with 5- or 6-Carboxyrhodamine-6G as Acceptor Chromophores. <i>Analytical Biochemistry</i> , 1996, 238, 165-170.	1.1	33
59	Digital genotyping using molecular affinity and mass spectrometry. <i>Nature Reviews Genetics</i> , 2003, 4, 1001-1008.	7.7	28
60	Spin-On End-Functional Diblock Copolymers for Quantitative DNA Immobilization. <i>Biomacromolecules</i> , 2008, 9, 2345-2352.	2.6	28
61	Design and synthesis of a photocleavable biotinylated nucleotide for DNA analysis by mass spectrometry. <i>Nucleic Acids Research</i> , 2004, 32, 535-541.	6.5	27
62	Design and Synthesis of a Chemically Cleavable Fluorescent Nucleotide, 3'-O-Allyl-dGTP-allyl-Bodipy-FL-510, as a Reversible Terminator for DNA Sequencing by Synthesis. <i>Journal of the American Chemical Society</i> , 2006, 128, 2542-2543.	6.6	26
63	Commercially Available Flavonols Are Better SARS-CoV-2 Inhibitors than Isoflavone and Flavones. <i>Viruses</i> , 2022, 14, 1458.	1.5	26
64	Multiplex genotyping of the human β 2-adrenergic receptor gene using solid-phase capturable dideoxynucleotides and mass spectrometry. <i>Analytical Biochemistry</i> , 2003, 316, 251-258.	1.1	24
65	Combinatorial fluorescence energy transfer molecular beacons for probing nucleic acid sequences. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 896.	1.6	24
66	Single nucleotide polymorphism detection by combinatorial fluorescence energy transfer tags and biotinylated dideoxynucleotides. <i>Nucleic Acids Research</i> , 2002, 30, 19e-19.	6.5	23
67	Translational control analysis by translationally active RNA capture/microarray analysis (TrlP-Chip). <i>Nucleic Acids Research</i> , 2010, 38, e104-e104.	6.5	23
68	Thirtyfold multiplex genotyping of the p53 gene using solid phase capturable dideoxynucleotides and mass spectrometry. <i>Genomics</i> , 2004, 83, 924-931.	1.3	19
69	Synthesis of oligodeoxyribonucleoside phosphorothioates using Lawesson's Reagent for the Sulfur Transfer Step. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1643-1645.	1.0	15
70	An Aptameric Microfluidic System for Specific Purification, Enrichment, and Mass Spectrometric Detection of Biomolecules. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 1198-1207.	1.7	13
71	CdSe/ZnS core shell quantum dot-based FRET binary oligonucleotide probes for detection of nucleic acids. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 881-884.	1.6	12
72	A MEMS-based approach to single nucleotide polymorphism genotyping. <i>Sensors and Actuators A: Physical</i> , 2013, 195, 175-182.	2.0	11

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73	Combinatorial fluorescence energy transfer tags: new molecular tools for genomics applications. IEEE Journal of Quantum Electronics, 2002, 38, 110-121.	1.0	9
74	DNA sequencing with solid-phase-capturable dideoxynucleotides and energy transfer primers. Analytical Biochemistry, 2002, 309, 35-39.	1.1	8
75	Mitochondrial single nucleotide polymorphism genotyping by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry using cleavable biotinylated dideoxynucleotides. Analytical Biochemistry, 2012, 427, 202-210.	1.1	8
76	Mathematical model for biomolecular quantification using large-area surface-enhanced Raman spectroscopy mapping. RSC Advances, 2015, 5, 85845-85853.	1.7	8
77	Molecular engineering approaches for DNA sequencing and analysis. Expert Review of Molecular Diagnostics, 2005, 5, 797-808.	1.5	7
78	DNA sequencing by synthesis using 3'-O-azidomethyl nucleotide reversible terminators and surface-enhanced Raman spectroscopic detection. RSC Advances, 2014, 4, 49342-49346.	1.7	7
79	A microfluidic device for multiplex single-nucleotide polymorphism genotyping. RSC Advances, 2014, 4, 4269-4277.	1.7	7
80	Digital Detection of Genetic Mutations Using SPC-Sequencing. Genome Research, 2004, 14, 296-300.	2.4	6
81	Identifying Structural Features of Nucleotide Analogues to Overcome SARS-CoV-2 Exonuclease Activity. Viruses, 2022, 14, 1413.	1.5	6
82	Design and synthesis of cleavable biotinylated dideoxynucleotides for DNA sequencing by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Analytical Biochemistry, 2012, 427, 193-201.	1.1	4
83	Multiplex Single-Nucleotide Polymorphism Detection by Combinatorial Fluorescence Energy Transfer Tags and Molecular Affinity. , 2006, 335, 201-214.		3
84	Photochemical conversion of a cytidine derivative to a thymidine analog via [2+2]-cycloaddition. Photochemical and Photobiological Sciences, 2018, 17, 1049-1055.	1.6	3
85	Combinatorial fluorescent energy transfer tags and their application for multiplex genetic analyses. , 0, , .		1
86	Introduction and Historical Overview of DNA Sequencing. Current Protocols in Molecular Biology, 2011, 96, 7.0.1.	2.9	1
87	Chapter 6 An Integrated System for DNA Sequencing by Synthesis. Perspectives in Bioanalysis, 2007, 2, 187-205.	0.3	0
88	Two-photon Excitation Induced Fluorescence of a Trifluorophore-labeled DNA. Photochemistry and Photobiology, 2005, 81, 238-241.	1.3	0
89	A MEMS-based approach to detection of single nucleotide polymorphisms for genetic disorder diagnosis. , 2012, , .		0
90	Two-Photon Excitation Induced Fluorescence of a Tri-fluorophore Labeled DNA. Photochemistry and Photobiology, 2005, 81, 238-41.	1.3	0