

Shankar Balasubramanian

List of Publications by Year in descending order

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Version: 2024-02-01

281
papers

43,596
citations

2797

94
h-index

2446

197
g-index

312
all docs

312
docs citations

312
times ranked

38604
citing authors

#	ARTICLE	IF	CITATIONS
1	GENCODE: The reference human genome annotation for The ENCODE Project. <i>Genome Research</i> , 2012, 22, 1760-1774.	2.4	4,217
2	Accurate whole human genome sequencing using reversible terminator chemistry. <i>Nature</i> , 2008, 456, 53-59.	13.7	3,118
3	Quantitative visualization of DNA G-quadruplex structures in human cells. <i>Nature Chemistry</i> , 2013, 5, 182-186.	6.6	1,746
4	Prevalence of quadruplexes in the human genome. <i>Nucleic Acids Research</i> , 2005, 33, 2908-2916.	6.5	1,519
5	Targeting G-quadruplexes in gene promoters: a novel anticancer strategy?. <i>Nature Reviews Drug Discovery</i> , 2011, 10, 261-275.	21.5	1,447
6	G-quadruplexes in promoters throughout the human genome. <i>Nucleic Acids Research</i> , 2007, 35, 406-413.	6.5	1,143
7	High-throughput sequencing of DNA G-quadruplex structures in the human genome. <i>Nature Biotechnology</i> , 2015, 33, 877-881.	9.4	954
8	Quantitative Sequencing of 5-Methylcytosine and 5-Hydroxymethylcytosine at Single-Base Resolution. <i>Science</i> , 2012, 336, 934-937.	6.0	850
9	DNA sequencing at 40: past, present and future. <i>Nature</i> , 2017, 550, 345-353.	13.7	729
10	The regulation and functions of DNA and RNA G-quadruplexes. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 459-474.	16.1	707
11	G-quadruplex structures mark human regulatory chromatin. <i>Nature Genetics</i> , 2016, 48, 1267-1272.	9.4	683
12	An RNA G-quadruplex in the 5' UTR of the NRAS proto-oncogene modulates translation. <i>Nature Chemical Biology</i> , 2007, 3, 218-221.	3.9	676
13	DNA G-quadruplexes in the human genome: detection, functions and therapeutic potential. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 279-284.	16.1	667
14	Small-molecule-induced DNA damage identifies alternative DNA structures in human genes. <i>Nature Chemical Biology</i> , 2012, 8, 301-310.	3.9	576
15	5'-UTR RNA G-quadruplexes: translation regulation and targeting. <i>Nucleic Acids Research</i> , 2012, 40, 4727-4741.	6.5	543
16	G-quadruplex nucleic acids as therapeutic targets. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 345-353.	2.8	532
17	Putative DNA Quadruplex Formation within the Human c-kit Oncogene. <i>Journal of the American Chemical Society</i> , 2005, 127, 10584-10589.	6.6	526
18	Visualization and selective chemical targeting of RNA G-quadruplex structures in the cytoplasm of human cells. <i>Nature Chemistry</i> , 2014, 6, 75-80.	6.6	511

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19	The Structure and Function of DNA G-Quadruplexes. Trends in Chemistry, 2020, 2, 123-136.	4.4	499
20	A Proton-Fuelled DNA Nanomachine. Angewandte Chemie - International Edition, 2003, 42, 5734-5736.	7.2	435
21	5-Hydroxymethylcytosine is a predominantly stable DNA modification. Nature Chemistry, 2014, 6, 1049-1055.	6.6	431
22	Loop-Length-Dependent Folding of G-Quadruplexes. Journal of the American Chemical Society, 2004, 126, 16405-16415.	6.6	428
23	A Novel Small Molecule That Alters Shelterin Integrity and Triggers a DNA-Damage Response at Telomeres. Journal of the American Chemical Society, 2008, 130, 15758-15759.	6.6	390
24	G-quadruplex structures are stable and detectable in human genomic DNA. Nature Communications, 2013, 4, 1796.	5.8	390
25	CX-5461 is a DNA G-quadruplex stabilizer with selective lethality in BRCA1/2 deficient tumours. Nature Communications, 2017, 8, 14432.	5.8	379
26	A Conserved Quadruplex Motif Located in a Transcription Activation Site of the Human c-kit Oncogene. Biochemistry, 2006, 45, 7854-7860.	1.2	370
27	G-quadruplexes: the beginning and end of UTRs. Nucleic Acids Research, 2008, 36, 6260-6268.	6.5	367
28	rG4-seq reveals widespread formation of G-quadruplex structures in the human transcriptome. Nature Methods, 2016, 13, 841-844.	9.0	314
29	Existence and consequences of G-quadruplex structures in DNA. Current Opinion in Genetics and Development, 2014, 25, 22-29.	1.5	311
30	Oxidative bisulfite sequencing of 5-methylcytosine and 5-hydroxymethylcytosine. Nature Protocols, 2013, 8, 1841-1851.	5.5	291
31	Early detection of cancer. Science, 2022, 375, eaay9040.	6.0	291
32	METTL1 Promotes let-7 MicroRNA Processing via m7G Methylation. Molecular Cell, 2019, 74, 1278-1290.e9.	4.5	288
33	Studies on the structure and dynamics of the human telomeric G quadruplex by single-molecule fluorescence resonance energy transfer. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14629-14634.	3.3	286
34	A Sequence-Independent Study of the Influence of Short Loop Lengths on the Stability and Topology of Intramolecular DNA G-Quadruplexes. Biochemistry, 2008, 47, 689-697.	1.2	285
35	Whole genome experimental maps of DNA G-quadruplexes in multiple species. Nucleic Acids Research, 2019, 47, 3862-3874.	6.5	280
36	A screen for hydroxymethylcytosine and formylcytosine binding proteins suggests functions in transcription and chromatin regulation. Genome Biology, 2013, 14, R119.	13.9	269

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37	Trisubstituted Isoalloxazines as a New Class of G-Quadruplex Binding Ligands: Small Molecule Regulation of c-kit Oncogene Expression. <i>Journal of the American Chemical Society</i> , 2007, 129, 12926-12927.	6.6	240
38	Single-molecule visualization of DNA G-quadruplex formation in live cells. <i>Nature Chemistry</i> , 2020, 12, 832-837.	6.6	235
39	5-Formylcytosine can be a stable DNA modification in mammals. <i>Nature Chemical Biology</i> , 2015, 11, 555-557.	3.9	225
40	LIN-28 and the poly(U) polymerase PUP-2 regulate let-7 microRNA processing in <i>Caenorhabditis elegans</i> . <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1016-1020.	3.6	224
41	Structural basis of G-quadruplex unfolding by the DEAH/RHA helicase DHX36. <i>Nature</i> , 2018, 558, 465-469.	13.7	224
42	The transcription factor FOXM1 is a cellular target of the natural product thiostrepton. <i>Nature Chemistry</i> , 2011, 3, 725-731.	6.6	223
43	G-quadruplexes regulate Epstein-Barr virus-encoded nuclear antigen 1 mRNA translation. <i>Nature Chemical Biology</i> , 2014, 10, 358-364.	3.9	220
44	Genome-wide mapping of endogenous G-quadruplex DNA structures by chromatin immunoprecipitation and high-throughput sequencing. <i>Nature Protocols</i> , 2018, 13, 551-564.	5.5	214
45	A Reversible pH-Driven DNA Nanoswitch Array. <i>Journal of the American Chemical Society</i> , 2006, 128, 2067-2071.	6.6	213
46	Quantitative sequencing of 5-formylcytosine in DNA at single-base resolution. <i>Nature Chemistry</i> , 2014, 6, 435-440.	6.6	211
47	FANCI is a Structure-specific DNA Helicase Associated with the Maintenance of Genomic G/C Tracts. <i>Journal of Biological Chemistry</i> , 2008, 283, 36132-36139.	1.6	207
48	DNA Molecular Motor Driven Micromechanical Cantilever Arrays. <i>Journal of the American Chemical Society</i> , 2005, 127, 17054-17060.	6.6	206
49	Genome-wide distribution of 5-formylcytosine in embryonic stem cells is associated with transcription and depends on thymine DNA glycosylase. <i>Genome Biology</i> , 2012, 13, R69.	13.9	205
50	A G-Rich Sequence within the <i>c-kit</i> Oncogene Promoter Forms a Parallel G-Quadruplex Having Asymmetric G-Tetrad Dynamics. <i>Journal of the American Chemical Society</i> , 2009, 131, 13399-13409.	6.6	195
51	Molecular signatures of plastic phenotypes in two eusocial insect species with simple societies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13970-13975.	3.3	192
52	Recombinant HIV-1 Nucleocapsid Protein Accelerates HIV-1 Reverse Transcriptase Catalyzed DNA Strand Transfer Reactions and Modulates RNase H Activity. <i>Biochemistry</i> , 1994, 33, 13817-13823.	1.2	191
53	A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands. <i>Nature Chemistry</i> , 2011, 3, 782-787.	6.6	189
54	DNA G-quadruplex structures mold the DNA methylome. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 951-957.	3.6	185

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55	FANCI coordinates two pathways that maintain epigenetic stability at G-quadruplex DNA. <i>Nucleic Acids Research</i> , 2012, 40, 1485-1498.	6.5	184
56	Non-Arrhenius kinetics for the loop closure of a DNA hairpin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 5584-5589.	3.3	179
57	A non-canonical DNA structure is a binding motif for the transcription factor SPI in vitro. <i>Nucleic Acids Research</i> , 2012, 40, 1499-1508.	6.5	169
58	Elevated Levels of G-Quadruplex Formation in Human Stomach and Liver Cancer Tissues. <i>PLoS ONE</i> , 2014, 9, e102711.	1.1	168
59	Suppression of the FOXM1 transcriptional programme via novel small molecule inhibition. <i>Nature Communications</i> , 2014, 5, 5165.	5.8	167
60	Small-molecule-mediated G-quadruplex isolation from human cells. <i>Nature Chemistry</i> , 2010, 2, 1095-1098.	6.6	166
61	Ultrasensitive Coincidence Fluorescence Detection of Single DNA Molecules. <i>Analytical Chemistry</i> , 2003, 75, 1664-1670.	3.2	162
62	Macrocyclic and Helical Oligoamides as a New Class of G-Quadruplex Ligands. <i>Journal of the American Chemical Society</i> , 2007, 129, 11890-11891.	6.6	159
63	Diarylethynyl Amides That Recognize the Parallel Conformation of Genomic Promoter DNA G-Quadruplexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 15950-15956.	6.6	151
64	Binding Interactions between Long Noncoding RNA HOTAIR and PRC2 Proteins. <i>Biochemistry</i> , 2013, 52, 9519-9527.	1.2	151
65	Formation and Abundance of 5-Hydroxymethylcytosine in RNA. <i>ChemBioChem</i> , 2015, 16, 752-755.	1.3	148
66	Selective RNA Versus DNA G-Quadruplex Targeting by In Situ Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11073-11078.	7.2	144
67	5-Formylcytosine alters the structure of the DNA double helix. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 44-49.	3.6	140
68	G-Quadruplex-Binding Benzo[<i>a</i>]phenoxazines Down-Regulate <i>c-KIT</i> Expression in Human Gastric Carcinoma Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2658-2663.	6.6	139
69	Retinol and ascorbate drive erasure of epigenetic memory and enhance reprogramming to naïve pluripotency by complementary mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12202-12207.	3.3	139
70	Optically Biased Diffusion of Single Molecules Studied by Confocal Fluorescence Microscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3160-3167.	1.2	135
71	The Kinetics and Folding Pathways of Intramolecular G-Quadruplex Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2012, 134, 19297-19308.	6.6	135
72	The <i>BCL-2</i> 5' Untranslated Region Contains an RNA G-Quadruplex-Forming Motif That Modulates Protein Expression. <i>Biochemistry</i> , 2010, 49, 8300-8306.	1.2	134

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73	G-quadruplexes are transcription factor binding hubs in human chromatin. <i>Genome Biology</i> , 2021, 22, 117.	3.8	130
74	An Intramolecular G-Quadruplex Structure Is Required for Binding of Telomeric Repeat-Containing RNA to the Telomeric Protein TRF2. <i>Journal of the American Chemical Society</i> , 2012, 134, 11974-11976.	6.6	128
75	A Small Molecule That Disrupts G-Quadruplex DNA Structure and Enhances Gene Expression. <i>Journal of the American Chemical Society</i> , 2009, 131, 12628-12633.	6.6	123
76	Oxazole-Based Peptide Macrocycles: A New Class of G-Quadruplex Binding Ligands. <i>Journal of the American Chemical Society</i> , 2006, 128, 13662-13663.	6.6	122
77	Ligand-Driven G-Quadruplex Conformational Switching By Using an Unusual Mode of Interaction. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5405-5407.	7.2	122
78	Landscape of G-quadruplex DNA structural regions in breast cancer. <i>Nature Genetics</i> , 2020, 52, 878-883.	9.4	122
79	Single-Molecule Conformational Analysis of G-Quadruplex Formation in the Promoter DNA Duplex of the Proto-Oncogene C-Kit. <i>Journal of the American Chemical Society</i> , 2007, 129, 7484-7485.	6.6	121
80	G-Quadruplex DNA as a Molecular Target for Induced Synthetic Lethality in Cancer Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 9640-9643.	6.6	121
81	Tetramethylpyridiniumporphyrazines a new class of G-quadruplex inducing and stabilising ligands. <i>Chemical Communications</i> , 2006, , 4685-4687.	2.2	120
82	DSBCapture: in situ capture and sequencing of DNA breaks. <i>Nature Methods</i> , 2016, 13, 855-857.	9.0	120
83	A Sequence-Independent Analysis of the Loop Length Dependence of Intramolecular RNA G-Quadruplex Stability and Topology. <i>Biochemistry</i> , 2011, 50, 7251-7258.	1.2	115
84	Targeting Multiple Effector Pathways in Pancreatic Ductal Adenocarcinoma with a G-Quadruplex-Binding Small Molecule. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 2500-2517.	2.9	114
85	Genome-wide mapping of FOXM1 binding reveals co-binding with estrogen receptor alpha in breast cancer cells. <i>Genome Biology</i> , 2013, 14, R6.	13.9	113
86	RNA G-quadruplexes at upstream open reading frames cause DHX36- and DHX9-dependent translation of human mRNAs. <i>Genome Biology</i> , 2018, 19, 229.	3.8	112
87	Determinants of G quadruplex-induced epigenetic instability in REV1 deficient cells. <i>EMBO Journal</i> , 2014, 33, 2507-2520.	3.5	111
88	Machine learning model for sequence-driven DNA G-quadruplex formation. <i>Scientific Reports</i> , 2017, 7, 14535.	1.6	111
89	Chemical Methods for Decoding Cytosine Modifications in DNA. <i>Chemical Reviews</i> , 2015, 115, 2240-2254.	23.0	110
90	Pyridostatin analogues promote telomere dysfunction and long-term growth inhibition in human cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6537.	1.5	109

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91	Rudimentary G-quadruplex-based telomere capping in <i>Saccharomyces cerevisiae</i> . <i>Nature Structural and Molecular Biology</i> , 2011, 18, 478-485.	3.6	107
92	Analysis of NRAS RNA G-quadruplex binding proteins reveals DDX3X as a novel interactor of cellular G-quadruplex containing transcripts. <i>Nucleic Acids Research</i> , 2018, 46, 11592-11604.	6.5	106
93	Position and Stability Are Determining Factors for Translation Repression by an RNA G-Quadruplex-Forming Sequence within the 5' UTR of the <i>NRAS</i> Proto-oncogene. <i>Biochemistry</i> , 2008, 47, 12664-12669.	1.2	104
94	Exploring the Differential Recognition of DNA G-Quadruplex Targets by Small Molecules Using Dynamic Combinatorial Chemistry. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2677-2680.	7.2	101
95	Small molecule-mediated inhibition of translation by targeting a native RNA G-quadruplex. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2771.	1.5	101
96	Kinetics of Unfolding the Human Telomeric DNA Quadruplex Using a PNA Trap. <i>Journal of the American Chemical Society</i> , 2003, 125, 3763-3767.	6.6	100
97	Detecting RNA G-Quadruplexes (rG4s) in the Transcriptome. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032284.	2.3	95
98	FRET Fluctuation Spectroscopy: Exploring the Conformational Dynamics of a DNA Hairpin Loop. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11551-11555.	1.2	93
99	Structural Analysis using SHALiPE to Reveal RNA G-Quadruplex Formation in Human Precursor MicroRNA. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8958-8961.	7.2	92
100	Formation of an Interlocked Quadruplex Dimer by d(GGGT). <i>Journal of the American Chemical Society</i> , 2004, 126, 11009-11016.	6.6	91
101	Genetic interactions of G-quadruplexes in humans. <i>ELife</i> , 2019, 8, .	2.8	91
102	Local epigenetic reprogramming induced by G-quadruplex ligands. <i>Nature Chemistry</i> , 2017, 9, 1110-1117.	6.6	88
103	5-Formylcytosine organizes nucleosomes and forms Schiff base interactions with histones in mouse embryonic stem cells. <i>Nature Chemistry</i> , 2018, 10, 1258-1266.	6.6	88
104	Insights into the mechanism of a G-quadruplex-unwinding DEAH-box helicase. <i>Nucleic Acids Research</i> , 2015, 43, 2223-2231.	6.5	84
105	oxBS-450K: A method for analysing hydroxymethylation using 450K BeadChips. <i>Methods</i> , 2015, 72, 9-15.	1.9	83
106	Chemical profiling of DNA G-quadruplex-interacting proteins in live cells. <i>Nature Chemistry</i> , 2021, 13, 626-633.	6.6	82
107	An RNA Hairpin to G-Quadruplex Conformational Transition. <i>Journal of the American Chemical Society</i> , 2012, 134, 19953-19956.	6.6	80
108	G-quadruplex ligands exhibit differential G-tetrad selectivity. <i>Chemical Communications</i> , 2015, 51, 8048-8050.	2.2	78

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109	Synthesis and hybridization analysis of a small library of peptide- oligonucleotide conjugates. <i>Nucleic Acids Research</i> , 1998, 26, 3136-3145.	6.5	77
110	Targeted Detection of Gâ€œQuadruplexes in Cellular RNAs. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6751-6754.	7.2	77
111	Synthesis of 2-Oxindole Derivatives via the Intramolecular Heck Reaction on Solid Support. <i>Tetrahedron Letters</i> , 1997, 38, 6473-6476.	0.7	76
112	Dynamic Covalent Chemistry on Self-Templating Peptides: Formation of a Disulfide-linked Î²-Hairpin Mimic. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2171-2173.	7.2	76
113	Genome-wide analysis of a G-quadruplex-specific single-chain antibody that regulates gene expression. <i>Nucleic Acids Research</i> , 2009, 37, 6716-6722.	6.5	75
114	Templated Ligand Assembly by Using G-Quadruplex DNA and Dynamic Covalent Chemistry. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1143-1146.	7.2	74
115	Triarylpyridines: a versatile small molecule scaffold for G-quadruplex recognition. <i>Chemical Communications</i> , 2008, , 1467.	2.2	74
116	Mapping and elucidating the function of modified bases in DNA. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	73
117	The use of a dithiane protected benzoin photolabile safety catch linker for solid-phase synthesis. <i>Tetrahedron Letters</i> , 1997, 38, 1227-1230.	0.7	72
118	Determination of the Fraction and Stoichiometry of Femtomolar Levels of Biomolecular Complexes in an Excess of Monomer Using Single-Molecule, Two-Color Coincidence Detection. <i>Analytical Chemistry</i> , 2006, 78, 7707-7715.	3.2	72
119	G-quadruplex recognition by bis-indole carboxamides. <i>Chemical Communications</i> , 2008, , 3055.	2.2	70
120	Targeting the <i>c-Kit</i> Promoter G-quadruplexes with 6-Substituted Indenoisoquinolines. <i>ACS Medicinal Chemistry Letters</i> , 2010, 1, 306-310.	1.3	67
121	Reprogramming the Mechanism of Action of Chlorambucil by Coupling to a G-Quadruplex Ligand. <i>Journal of the American Chemical Society</i> , 2014, 136, 5860-5863.	6.6	66
122	G-Quadruplex-Specific Peptideâ”Hemicyanine Ligands by Partial Combinatorial Selection. <i>Journal of the American Chemical Society</i> , 2003, 125, 5594-5595.	6.6	64
123	Selection of Zinc Fingers that Bind Single-Stranded Telomeric DNA in the G-Quadruplex Conformationâ€. <i>Biochemistry</i> , 2001, 40, 830-836.	1.2	63
124	Selective Recognition of a DNA G-Quadruplex by an Engineered Antibody. <i>Biochemistry</i> , 2008, 47, 9365-9371.	1.2	62
125	Recognition and discrimination of DNA quadruplexes by acridine-peptide conjugates. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 76-84.	1.5	60
126	Synthesis and Binding Studies of Novel Diethynylâ€œPyridine Amides with Genomic Promoter DNA Gâ€œQuadruplexes. <i>Chemistry - A European Journal</i> , 2011, 17, 4571-4581.	1.7	58

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127	In vivo genome-wide profiling reveals a tissue-specific role for 5-formylcytosine. <i>Genome Biology</i> , 2016, 17, 141.	3.8	58
128	G-quadruplex structures within the 3' UTR of LINE-1 elements stimulate retrotransposition. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 243-247.	3.6	58
129	A PNA4Quadruplex. <i>Journal of the American Chemical Society</i> , 2004, 126, 5944-5945.	6.6	57
130	NOTCH-mediated non-cell autonomous regulation of chromatin structure during senescence. <i>Nature Communications</i> , 2018, 9, 1840.	5.8	57
131	Recent developments in the encoding and deconvolution of combinatorial libraries. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 346-350.	2.8	56
132	Ratiometric Analysis of Single-Molecule Fluorescence Resonance Energy Transfer Using Logical Combinations of Threshold Criteria: A Study of 12-mer DNA. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5171-5178.	1.2	56
133	Probing DNA Surface Attachment and Local Environment Using Single Molecule Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3120-3126.	1.2	56
134	Solid-Phase Methods for the Synthesis of Cyanine Dyes. <i>Journal of Organic Chemistry</i> , 2005, 70, 2939-2949.	1.7	56
135	Selective Chemical Labeling of Natural T Modifications in DNA. <i>Journal of the American Chemical Society</i> , 2015, 137, 9270-9272.	6.6	56
136	Promoter G-quadruplex folding precedes transcription and is controlled by chromatin. <i>Genome Biology</i> , 2021, 22, 143.	3.8	56
137	Detection, Structure and Function of Modified DNA Bases. <i>Journal of the American Chemical Society</i> , 2019, 141, 6420-6429.	6.6	55
138	Reaction of (6R)-6-fluoroEPSP with recombinant Escherichia coli chorismate synthase generates a stable flavin mononucleotide semiquinone radical. <i>Journal of the American Chemical Society</i> , 1992, 114, 3151-3153.	6.6	54
139	Use of Fluorescence Resonance Energy Transfer To Investigate the Conformation of DNA Substrates Bound to the Klenow Fragment. <i>Biochemistry</i> , 1998, 37, 2979-2990.	1.2	54
140	Accurate Measurement of 5-Methylcytosine and 5-Hydroxymethylcytosine in Human Cerebellum DNA by Oxidative Bisulfite on an Array (OxBS-Array). <i>PLoS ONE</i> , 2015, 10, e0118202.	1.1	54
141	Gender Differences in Global but Not Targeted Demethylation in iPSC Reprogramming. <i>Cell Reports</i> , 2017, 18, 1079-1089.	2.9	54
142	Molecule by Molecule Direct and Quantitative Counting of Antibody-Protein Complexes in Solution. <i>Analytical Chemistry</i> , 2004, 76, 4446-4451.	3.2	53
143	Targeting Nucleic Acid Secondary Structures with Polyamides Using an Optimized Dynamic Combinatorial Approach. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5736-5739.	7.2	53
144	Solid phase synthesis - designer linkers for combinatorial chemistry: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 1999, 74, 835-851.	1.6	52

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145	Synthesis and G-quadruplex binding studies of new 4-N-methylpyridinium porphyrins. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 3337-3342.	1.5	52
146	Single-molecule analysis of human telomerase monomer. <i>Nature Chemical Biology</i> , 2008, 4, 287-289.	3.9	52
147	Sequencing abasic sites in DNA at single-nucleotide resolution. <i>Nature Chemistry</i> , 2019, 11, 629-637.	6.6	52
148	Distinct functions of maternal and somatic Pat1 protein paralogs. <i>Rna</i> , 2010, 16, 2094-2107.	1.6	50
149	Genome-wide mapping of 5-hydroxymethyluracil in the eukaryote parasite <i>Leishmania</i> . <i>Genome Biology</i> , 2017, 18, 23.	3.8	50
150	Targeting a c-MYC G-quadruplex DNA with a fragment library. <i>Chemical Communications</i> , 2014, 50, 1704-1707.	2.2	49
151	FOXM1 binds directly to non-consensus sequences in the human genome. <i>Genome Biology</i> , 2015, 16, 130.	3.8	49
152	Solid phase reductive alkylation of secondary amines. <i>Tetrahedron Letters</i> , 1996, 37, 4819-4822.	0.7	47
153	Measuring single-molecule nucleic acid dynamics in solution by two-color filtered ratiometric fluorescence correlation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14425-14430.	3.3	47
154	G-Quadruplex DNA Bound by a Synthetic Ligand is Highly Dynamic. <i>Journal of the American Chemical Society</i> , 2009, 131, 12522-12523.	6.6	47
155	Studies on the Synthesis, Characterisation and Reactivity of Aromatic Diboronic Acids. <i>Tetrahedron Letters</i> , 1997, 38, 6781-6784.	0.7	46
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