

Shankar Balasubramanian

List of Publications by Citations

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291
papers

33,810
citations

86
h-index

179
g-index

312
ext. papers

39,322
ext. citations

11.6
avg, IF

7.56
L-index

#	Paper	IF	Citations
291	GENCODE: the reference human genome annotation for The ENCODE Project. <i>Genome Research</i> , 2012 , 22, 1760-74	9.7	3142
290	Accurate whole human genome sequencing using reversible terminator chemistry. <i>Nature</i> , 2008 , 456, 53-9	50.4	2615
289	Quantitative visualization of DNA G-quadruplex structures in human cells. <i>Nature Chemistry</i> , 2013 , 5, 182-6	17.6	1371
288	Prevalence of quadruplexes in the human genome. <i>Nucleic Acids Research</i> , 2005 , 33, 2908-16	20.1	1248
287	Targeting G-quadruplexes in gene promoters: a novel anticancer strategy?. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 261-75	64.1	1208
286	G-quadruplexes in promoters throughout the human genome. <i>Nucleic Acids Research</i> , 2007 , 35, 406-13	20.1	944
285	Quantitative sequencing of 5-methylcytosine and 5-hydroxymethylcytosine at single-base resolution. <i>Science</i> , 2012 , 336, 934-7	33.3	707
284	High-throughput sequencing of DNA G-quadruplex structures in the human genome. <i>Nature Biotechnology</i> , 2015 , 33, 877-81	44.5	652
283	An RNA G-quadruplex in the 5'UTR of the NRAS proto-oncogene modulates translation. <i>Nature Chemical Biology</i> , 2007 , 3, 218-21	11.7	568
282	DNA sequencing at 40: past, present and future. <i>Nature</i> , 2017 , 550, 345-353	50.4	486
281	Putative DNA quadruplex formation within the human c-kit oncogene. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10584-9	16.4	478
280	DNA G-quadruplexes in the human genome: detection, functions and therapeutic potential. <i>Nature Reviews Molecular Cell Biology</i> , 2017 , 18, 279-284	48.7	468
279	Small-molecule-induced DNA damage identifies alternative DNA structures in human genes. <i>Nature Chemical Biology</i> , 2012 , 8, 301-10	11.7	467
278	5'UTR RNA G-quadruplexes: translation regulation and targeting. <i>Nucleic Acids Research</i> , 2012 , 40, 4727-41	20.1	465
277	G-quadruplex nucleic acids as therapeutic targets. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 345-53	9.7	457
276	G-quadruplex structures mark human regulatory chromatin. <i>Nature Genetics</i> , 2016 , 48, 1267-72	36.3	437
275	A proton-fuelled DNA nanomachine. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5734-6	16.4	396

274	Visualization and selective chemical targeting of RNA G-quadruplex structures in the cytoplasm of human cells. <i>Nature Chemistry</i> , 2014 , 6, 75-80	17.6	390
273	Loop-length-dependent folding of G-quadruplexes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16405-15	16.4	379
272	5-Hydroxymethylcytosine is a predominantly stable DNA modification. <i>Nature Chemistry</i> , 2014 , 6, 1049-55	17.6	337
271	A conserved quadruplex motif located in a transcription activation site of the human c-kit oncogene. <i>Biochemistry</i> , 2006 , 45, 7854-60	3.2	331
270	G-quadruplex structures are stable and detectable in human genomic DNA. <i>Nature Communications</i> , 2013 , 4, 1796	17.4	324
269	G-quadruplexes: the beginning and end of UTRs. <i>Nucleic Acids Research</i> , 2008 , 36, 6260-8	20.1	308
268	A novel small molecule that alters shelterin integrity and triggers a DNA-damage response at telomeres. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15758-9	16.4	306
267	Existence and consequences of G-quadruplex structures in DNA. <i>Current Opinion in Genetics and Development</i> , 2014 , 25, 22-9	4.9	274
266	Studies on the structure and dynamics of the human telomeric G quadruplex by single-molecule fluorescence resonance energy transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 14629-34	11.5	266
265	The regulation and functions of DNA and RNA G-quadruplexes. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 459-474	48.7	261
264	A sequence-independent study of the influence of short loop lengths on the stability and topology of intramolecular DNA G-quadruplexes. <i>Biochemistry</i> , 2008 , 47, 689-97	3.2	254
263	CX-5461 is a DNA G-quadruplex stabilizer with selective lethality in BRCA1/2 deficient tumours. <i>Nature Communications</i> , 2017 , 8, 14432	17.4	251
262	Oxidative bisulfite sequencing of 5-methylcytosine and 5-hydroxymethylcytosine. <i>Nature Protocols</i> , 2013 , 8, 1841-51	18.8	241
261	A screen for hydroxymethylcytosine and formylcytosine binding proteins suggests functions in transcription and chromatin regulation. <i>Genome Biology</i> , 2013 , 14, R119	18.3	237
260	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, 12926-7	16.4	219
259	The Structure and Function of DNA G-Quadruplexes. <i>Trends in Chemistry</i> , 2020 , 2, 123-136	14.8	216
258	rG4-seq reveals widespread formation of G-quadruplex structures in the human transcriptome. <i>Nature Methods</i> , 2016 , 13, 841-4	21.6	211
257	A reversible pH-driven DNA nanoswitch array. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2067-71	16.4	198

256	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, 1016-20	17.6	197
255	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	18.3	188
254	DNA molecular motor driven micromechanical cantilever arrays. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17054-60	16.4	188
253	5-Formylcytosine can be a stable DNA modification in mammals. <i>Nature Chemical Biology</i> , 2015 , 11, 555-7	11.7	185
252	The transcription factor FOXM1 is a cellular target of the natural product thiostrepton. <i>Nature Chemistry</i> , 2011 , 3, 725-31	17.6	184
251	Quantitative sequencing of 5-formylcytosine in DNA at single-base resolution. <i>Nature Chemistry</i> , 2014 , 6, 435-40	17.6	183
250	FANCI is a structure-specific DNA helicase associated with the maintenance of genomic G/C tracts. <i>Journal of Biological Chemistry</i> , 2008 , 283, 36132-9	5.4	171
249	A G-rich sequence within the c-kit oncogene promoter forms a parallel G-quadruplex having asymmetric G-tetrad dynamics. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13399-409	16.4	168
248	G-quadruplexes regulate Epstein-Barr virus-encoded nuclear antigen 1 mRNA translation. <i>Nature Chemical Biology</i> , 2014 , 10, 358-64	11.7	167
247	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, 5584-9	11.5	167
246	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, 13817-23	3.2	167
245	A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands. <i>Nature Chemistry</i> , 2011 , 3, 782-7	17.6	155
244	FANCI coordinates two pathways that maintain epigenetic stability at G-quadruplex DNA. <i>Nucleic Acids Research</i> , 2012 , 40, 1485-98	20.1	153
243	Macrocyclic and helical oligoamides as a new class of G-quadruplex ligands. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11890-1	16.4	152
242	Ultrasensitive coincidence fluorescence detection of single DNA molecules. <i>Analytical Chemistry</i> , 2003 , 75, 1664-70	7.8	148
241	Whole genome experimental maps of DNA G-quadruplexes in multiple species. <i>Nucleic Acids Research</i> , 2019 , 47, 3862-3874	20.1	141
240	Structural basis of G-quadruplex unfolding by the DEAH/RHA helicase DHX36. <i>Nature</i> , 2018 , 558, 465-469	9.4	138
239	Small-molecule-mediated G-quadruplex isolation from human cells. <i>Nature Chemistry</i> , 2010 , 2, 1095-8	17.6	138

238	Diarylethynyl amides that recognize the parallel conformation of genomic promoter DNA G-quadruplexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15950-6	16.4	137
237	METTL1 Promotes let-7 MicroRNA Processing via m7G Methylation. <i>Molecular Cell</i> , 2019 , 74, 1278-1290.	9.6	130
236	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, 13970-5	11.5	127
235	5-Formylcytosine alters the structure of the DNA double helix. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 44-49	17.6	121
234	Suppression of the FOXM1 transcriptional programme via novel small molecule inhibition. <i>Nature Communications</i> , 2014 , 5, 5165	17.4	121
233	A non-canonical DNA structure is a binding motif for the transcription factor SP1 in vitro. <i>Nucleic Acids Research</i> , 2012 , 40, 1499-508	20.1	121
232	Selective RNA versus DNA G-quadruplex targeting by in situ click chemistry. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11073-8	16.4	120
231	Optically Biased Diffusion of Single Molecules Studied by Confocal Fluorescence Microscopy. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3160-3167	3.4	118
230	Elevated levels of G-quadruplex formation in human stomach and liver cancer tissues. <i>PLoS ONE</i> , 2014 , 9, e102711	3.7	117
229	Binding interactions between long noncoding RNA HOTAIR and PRC2 proteins. <i>Biochemistry</i> , 2013 , 52, 9519-27	3.2	115
228	G-quadruplex-binding benzo[a]phenoxazines down-regulate c-KIT expression in human gastric carcinoma cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2658-63	16.4	115
227	The BCL-2 5' untranslated region contains an RNA G-quadruplex-forming motif that modulates protein expression. <i>Biochemistry</i> , 2010 , 49, 8300-6	3.2	114
226	Oxazole-based peptide macrocycles: a new class of G-quadruplex binding ligands. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13662-3	16.4	113
225	Single-molecule visualization of DNA G-quadruplex formation in live cells. <i>Nature Chemistry</i> , 2020 , 12, 832-837	17.6	112
224	Formation and abundance of 5-hydroxymethylcytosine in RNA. <i>ChemBioChem</i> , 2015 , 16, 752-5	3.8	109
223	Tetramethylpyridiniumporphyrazines--a new class of G-quadruplex inducing and stabilising ligands. <i>Chemical Communications</i> , 2006 , 4685-7	5.8	109
222	The kinetics and folding pathways of intramolecular G-quadruplex nucleic acids. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19297-308	16.4	108
221	Ligand-driven G-quadruplex conformational switching by using an unusual mode of interaction. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5405-7	16.4	108

220	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, 7484-5	16.4	107
219	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	11.5	107
218	Genome-wide mapping of endogenous G-quadruplex DNA structures by chromatin immunoprecipitation and high-throughput sequencing. <i>Nature Protocols</i> , 2018 , 13, 551-564	18.8	106
217	DNA G-quadruplex structures mold the DNA methylome. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 951-957	17.6	102
216	G-quadruplex DNA as a molecular target for induced synthetic lethality in cancer cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9640-3	16.4	101
215	A small molecule that disrupts G-quadruplex DNA structure and enhances gene expression. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12628-33	16.4	101
214	A sequence-independent analysis of the loop length dependence of intramolecular RNA G-quadruplex stability and topology. <i>Biochemistry</i> , 2011 , 50, 7251-8	3.2	95
213	Genome-wide mapping of FOXM1 binding reveals co-binding with estrogen receptor alpha in breast cancer cells. <i>Genome Biology</i> , 2013 , 14, R6	18.3	94
212	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, 11974-6	16.4	94
211	Position and stability are determining factors for translation repression by an RNA G-quadruplex-forming sequence within the 5'UTR of the NRAS proto-oncogene. <i>Biochemistry</i> , 2008 , 47, 12664-9	3.2	92
210	Kinetics of unfolding the human telomeric DNA quadruplex using a PNA trap. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3763-7	16.4	91
209	Rudimentary G-quadruplex-based telomere capping in <i>Saccharomyces cerevisiae</i> . <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 478-85	17.6	89
208	Exploring the differential recognition of DNA G-quadruplex targets by small molecules using dynamic combinatorial chemistry. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2677-80	16.4	89
207	Determinants of G quadruplex-induced epigenetic instability in REV1-deficient cells. <i>EMBO Journal</i> , 2014 , 33, 2507-20	13	88
206	Chemical methods for decoding cytosine modifications in DNA. <i>Chemical Reviews</i> , 2015 , 115, 2240-54	68.1	87
205	Small molecule-mediated inhibition of translation by targeting a native RNA G-quadruplex. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 2771-6	3.9	86
204	FRET Fluctuation Spectroscopy: Exploring the Conformational Dynamics of a DNA Hairpin Loop. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 11551-11555	3.4	85
203	Formation of an interlocked quadruplex dimer by d(GGGT). <i>Journal of the American Chemical Society</i> , 2004 , 126, 11009-16	16.4	84

202	Pyridostatin analogues promote telomere dysfunction and long-term growth inhibition in human cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 6537-46	3.9	83
201	DSBCapture: in situ capture and sequencing of DNA breaks. <i>Nature Methods</i> , 2016 , 13, 855-7	21.6	82
200	A Proton-Fuelled DNA Nanomachine. <i>Angewandte Chemie</i> , 2003 , 115, 5912-5914	3.6	81
199	oxBS-450K: a method for analysing hydroxymethylation using 450K BeadChips. <i>Methods</i> , 2015 , 72, 9-15	4.6	74
198	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	8.3	72
197	Synthesis of 2-Oxindole Derivatives via the Intramolecular Heck Reaction on Solid Support. <i>Tetrahedron Letters</i> , 1997 , 38, 6473-6476	2	69
196	Triarylpyridines: a versatile small molecule scaffold for G-quadruplex recognition. <i>Chemical Communications</i> , 2008 , 1467-9	5.8	69
195	Synthesis and hybridization analysis of a small library of peptide-oligonucleotide conjugates. <i>Nucleic Acids Research</i> , 1998 , 26, 3136-45	20.1	68
194	An RNA hairpin to G-quadruplex conformational transition. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19953-6	16.4	67
193	G-quadruplex recognition by bis-indole carboxamides. <i>Chemical Communications</i> , 2008 , 3055-7	5.8	67
192	Templated ligand assembly by using G-quadruplex DNA and dynamic covalent chemistry. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1143-6	16.4	67
191	Local epigenetic reprogramming induced by G-quadruplex ligands. <i>Nature Chemistry</i> , 2017 , 9, 1110-1117	17.6	66
190	Insights into the mechanism of a G-quadruplex-unwinding DEAH-box helicase. <i>Nucleic Acids Research</i> , 2015 , 43, 2223-31	20.1	66
189	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	20.1	66
188	Dynamic covalent chemistry on self-templating peptides: formation of a disulfide-linked beta-hairpin mimic. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2171-3	16.4	65
187	Genome-wide analysis of a G-quadruplex-specific single-chain antibody that regulates gene expression. <i>Nucleic Acids Research</i> , 2009 , 37, 6716-22	20.1	63
186	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, 7707-15	7.8	63
185	RNA G-quadruplexes at upstream open reading frames cause DHX36- and DHX9-dependent translation of human mRNAs. <i>Genome Biology</i> , 2018 , 19, 229	18.3	63

184	5-Formylcytosine organizes nucleosomes and forms Schiff base interactions with histones in mouse embryonic stem cells. <i>Nature Chemistry</i> , 2018 , 10, 1258-1266	17.6	61
183	Structural Analysis using SHALIPE to Reveal RNA G-Quadruplex Formation in Human Precursor MicroRNA. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8958-61	16.4	59
182	Landscape of G-quadruplex DNA structural regions in breast cancer. <i>Nature Genetics</i> , 2020 , 52, 878-883	36.3	59
181	G-quadruplex ligands exhibit differential G-tetrad selectivity. <i>Chemical Communications</i> , 2015 , 51, 8048-508		58
180	The use of a dithiane protected benzoin photolabile safety catch linker for solid-phase synthesis. <i>Tetrahedron Letters</i> , 1997 , 38, 1227-1230	2	58
179	Targeting the c-Kit Promoter G-quadruplexes with 6-Substituted Indenoisoquinolines. <i>ACS Medicinal Chemistry Letters</i> , 2010 , 1, 306-10	4.3	57
178	Genetic interactions of G-quadruplexes in humans. <i>ELife</i> , 2019 , 8,	8.9	57
177	Synthesis and binding studies of novel diethynyl-pyridine amides with genomic promoter DNA G-quadruplexes. <i>Chemistry - A European Journal</i> , 2011 , 17, 4571-81	4.8	56
176	Machine learning model for sequence-driven DNA G-quadruplex formation. <i>Scientific Reports</i> , 2017 , 7, 14535	4.9	55
175	A PNA4 quadruplex. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5944-5	16.4	55
174	G-quadruplex-specific peptide-hemocyanine ligands by partial combinatorial selection. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5594-5	16.4	55
173	Selection of zinc fingers that bind single-stranded telomeric DNA in the G-quadruplex conformation. <i>Biochemistry</i> , 2001 , 40, 830-6	3.2	55
172	Selective recognition of a DNA G-quadruplex by an engineered antibody. <i>Biochemistry</i> , 2008 , 47, 9365-71	3.2	53
171	Use of fluorescence resonance energy transfer to investigate the conformation of DNA substrates bound to the Klenow fragment. <i>Biochemistry</i> , 1998 , 37, 2979-90	3.2	53
170	Detecting RNA G-Quadruplexes (rG4s) in the Transcriptome. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018 , 10,	10.2	53
169	In vivo genome-wide profiling reveals a tissue-specific role for 5-formylcytosine. <i>Genome Biology</i> , 2016 , 17, 141	18.3	52
168	Recognition and discrimination of DNA quadruplexes by acridine-peptide conjugates. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 76-84	3.9	50
167	Synthesis and G-quadruplex binding studies of new 4-N-methylpyridinium porphyrins. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 3337-42	3.9	50

166	Molecule by molecule direct and quantitative counting of antibody-protein complexes in solution. <i>Analytical Chemistry</i> , 2004 , 76, 4446-51	7.8	50
165	Probing DNA Surface Attachment and Local Environment Using Single Molecule Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 3120-3126	3.4	50
164	Targeting nucleic acid secondary structures with polyamides using an optimized dynamic combinatorial approach. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5736-9	16.4	49
163	Solid-phase methods for the synthesis of cyanine dyes. <i>Journal of Organic Chemistry</i> , 2005 , 70, 2939-49	4.2	48
162	Recent developments in the encoding and deconvolution of combinatorial libraries. <i>Current Opinion in Chemical Biology</i> , 2000 , 4, 346-50	9.7	48
161	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	3.4	48
160	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	16.4	48
159	Targeted Detection of G-Quadruplexes in Cellular RNAs. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6751-4	16.4	47
158	Single-molecule analysis of human telomerase monomer. <i>Nature Chemical Biology</i> , 2008 , 4, 287-9	11.7	45
157	Reprogramming the mechanism of action of chlorambucil by coupling to a G-quadruplex ligand. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5860-3	16.4	44
156	G-quadruplex DNA bound by a synthetic ligand is highly dynamic. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12522-3	16.4	44
155	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, 14425-30	11.5	44
154	Selective Chemical Labeling of Natural T Modifications in DNA. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9270-2	16.4	43
153	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	3.7	43
152	Distinct functions of maternal and somatic Pat1 protein paralogs. <i>Rna</i> , 2010 , 16, 2094-107	5.8	43
151	Inhibition of human telomerase activity by an engineered zinc finger protein that binds G-quadruplexes. <i>Biochemistry</i> , 2004 , 43, 13452-8	3.2	43
150	Solid phase synthesis of designer linkers for combinatorial chemistry: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 1999 , 74, 835-851	3.5	43
149	Gender Differences in Global but Not Targeted Demethylation in iPSC Reprogramming. <i>Cell Reports</i> , 2017 , 18, 1079-1089	10.6	42

148	Solid phase reductive alkylation of secondary amines. <i>Tetrahedron Letters</i> , 1996 , 37, 4819-4822	2	42
147	G-quadruplex structures within the 3QTR of LINE-1 elements stimulate retrotransposition. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 243-247	17.6	41
146	Targeting a c-MYC G-quadruplex DNA with a fragment library. <i>Chemical Communications</i> , 2014 , 50, 1704-78	41	
145	An acetylene-bridged 6,8-purine dimer as a fluorescent switch-on probe for parallel G-quadruplexes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1428-31	16.4	41
144	Mapping and elucidating the function of modified bases in DNA. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	41
143	Identification of a new RNA.RNA interaction site for human telomerase RNA (hTR): structural implications for hTR accumulation and a dyskeratosis congenita point mutation. <i>Nucleic Acids Research</i> , 2003 , 31, 6509-15	20.1	41
142	Genome-wide mapping of 5-hydroxymethyluracil in the eukaryote parasite <i>Leishmania</i> . <i>Genome Biology</i> , 2017 , 18, 23	18.3	40
141	Analysis of human telomerase activity and function by two color single molecule coincidence fluorescence spectroscopy. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4992-5000	16.4	40
140	Studies on the Synthesis, Characterisation and Reactivity of Aromatic Diboronic Acids. <i>Tetrahedron Letters</i> , 1997 , 38, 6781-6784	2	38
139	G-quadruplexes are transcription factor binding hubs in human chromatin. <i>Genome Biology</i> , 2021 , 22, 117	18.3	38
138	Experimental approaches to identify cellular G-quadruplex structures and functions. <i>Methods</i> , 2012 , 57, 84-92	4.6	37
137	Sequence variation in G-protein-coupled receptors: analysis of single nucleotide polymorphisms. <i>Nucleic Acids Research</i> , 2005 , 33, 1710-21	20.1	37
136	Studies on a Dithiane-Protected Benzoin Photolabile Safety Catch Linker for Solid-Phase Synthesis. <i>Journal of Organic Chemistry</i> , 1999 , 64, 3454-3460	4.2	37
135	Ligand-Driven G-Quadruplex Conformational Switching By Using an Unusual Mode of Interaction. <i>Angewandte Chemie</i> , 2007 , 119, 5501-5503	3.6	36
134	Single-molecule analysis of DNA immobilized on microspheres. <i>Analytical Chemistry</i> , 2000 , 72, 3678-81	7.8	36
133	Exploring a benzyloxylaniline linker utilizing ceric ammonium nitrate (CAN) as a cleavage reagent: solid-phase synthesis of N-unsubstituted beta-lactams and secondary amides. <i>Organic Letters</i> , 2001 , 3, 53-6	6.2	36
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