

Shankar Balasubramanian

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	G-quadruplex DNA structures in human stem cells and differentiation.. <i>Nature Communications</i> , 2022 , 13, 142	17.4	3
290	Early detection of cancer.. <i>Science</i> , 2022 , 375, eaay9040	33.3	27
289	RNA G-quadruplex structures control ribosomal protein production. <i>Scientific Reports</i> , 2021 , 11, 22735	4.9	1
288	G-quadruplexes are transcription factor binding hubs in human chromatin. <i>Genome Biology</i> , 2021 , 22, 117	18.3	38
287	Promoter G-quadruplex folding precedes transcription and is controlled by chromatin. <i>Genome Biology</i> , 2021 , 22, 143	18.3	14
286	Chemical profiling of DNA G-quadruplex-interacting proteins in live cells. <i>Nature Chemistry</i> , 2021 , 13, 626-633	17.6	23
285	TET2 is a component of the estrogen receptor complex and controls 5mC to 5hmC conversion at estrogen receptor cis-regulatory regions. <i>Cell Reports</i> , 2021 , 34, 108776	10.6	5
284	Reduced Bisulfite Sequencing: Quantitative Base-Resolution Sequencing of 5-Formylcytosine. <i>Methods in Molecular Biology</i> , 2021 , 2272, 3-12	1.4	
283	Single-cell mapping of DNA G-quadruplex structures in human cancer cells. <i>Scientific Reports</i> , 2021 , 11, 23641	4.9	3
282	Selective Chemical Functionalization at N6-Methyladenosine Residues in DNA Enabled by Visible-Light-Mediated Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21484-21492	16.4	11
281	Genome-wide DNA Methylation Signatures Are Determined by DNMT3A/B Sequence Preferences. <i>Biochemistry</i> , 2020 , 59, 2541-2550	3.2	10
280	Natural, modified DNA bases. <i>Current Opinion in Chemical Biology</i> , 2020 , 57, 1-7	9.7	14
279	Affinity-Selected Bicyclic Peptide G-Quadruplex Ligands Mimic a Protein-like Binding Mechanism. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8367-8373	16.4	8
278	Single-molecule visualization of DNA G-quadruplex formation in live cells. <i>Nature Chemistry</i> , 2020 , 12, 832-837	17.6	112
277	Landscape of G-quadruplex DNA structural regions in breast cancer. <i>Nature Genetics</i> , 2020 , 52, 878-883	36.3	59
276	Activation-induced cytidine deaminase localizes to G-quadruplex motifs at mutation hotspots in lymphoma. <i>NAR Cancer</i> , 2020 , 2, zcaa029	5.2	5
275	A Spontaneous Ring-Opening Reaction Leads to a Repair-Resistant Thymine Oxidation Product in Genomic DNA. <i>ChemBioChem</i> , 2020 , 21, 320-323	3.8	

274	The Structure and Function of DNA G-Quadruplexes. <i>Trends in Chemistry</i> , 2020 , 2, 123-136	14.8	216
273	The regulation and functions of DNA and RNA G-quadruplexes. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 459-474	48.7	261
272	Unusual Activity of a TET/JBP Family Enzyme. <i>Biochemistry</i> , 2019 , 58, 3627-3629	3.2	3
271	An Activatable Cancer-Targeted Hydrogen Peroxide Probe for Photoacoustic and Fluorescence Imaging. <i>Cancer Research</i> , 2019 , 79, 5407-5417	10.1	15
270	Sequencing abasic sites in DNA at single-nucleotide resolution. <i>Nature Chemistry</i> , 2019 , 11, 629-637	17.6	27
269	METTL1 Promotes let-7 MicroRNA Processing via m7G Methylation. <i>Molecular Cell</i> , 2019 , 74, 1278-1290.	9.6	130
268	Detection, Structure and Function of Modified DNA Bases. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6420-6429	16.4	33
267	Whole genome experimental maps of DNA G-quadruplexes in multiple species. <i>Nucleic Acids Research</i> , 2019 , 47, 3862-3874	20.1	141
266	A Photo-responsive Small-Molecule Approach for the Opto-epigenetic Modulation of DNA Methylation. <i>Angewandte Chemie</i> , 2019 , 131, 6692-6696	3.6	4
265	A Photo-responsive Small-Molecule Approach for the Opto-epigenetic Modulation of DNA Methylation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6620-6624	16.4	10
264	Genetic interactions of G-quadruplexes in humans. <i>ELife</i> , 2019 , 8,	8.9	57
263	Structure of a (3+1) hybrid G-quadruplex in the PARP1 promoter. <i>Nucleic Acids Research</i> , 2019 , 47, 1564-1572	15.7	29
262	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
261	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
260	Sequencing 5-Hydroxymethyluracil at Single-Base Resolution. <i>Angewandte Chemie</i> , 2018 , 130, 9842-9844.	3.6	3
259	NOTCH-mediated non-cell autonomous regulation of chromatin structure during senescence. <i>Nature Communications</i> , 2018 , 9, 1840	17.4	35
258	Sequencing 5-Hydroxymethyluracil at Single-Base Resolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9694-9696	16.4	14
257	Structural basis of G-quadruplex unfolding by the DEAH/RHA helicase DHX36. <i>Nature</i> , 2018 , 558, 465-469.	10.4	138

256	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
255	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
254	DNA G-quadruplex structures mold the DNA methylome. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 951-957	17.6	102
253	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
252	Detecting RNA G-Quadruplexes (rG4s) in the Transcriptome. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018 , 10,	10.2	53
251	Selective inhibitors of trypanosomal uridylyl transferase RET1 establish druggability of RNA post-transcriptional modifications. <i>RNA Biology</i> , 2017 , 14, 611-619	4.8	3
250	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
249	2QO-Methyl-5-hydroxymethylcytidine: A Second Oxidative Derivative of 5-Methylcytidine in RNA. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1766-1769	16.4	19
248	Gender Differences in Global but Not Targeted Demethylation in iPSC Reprogramming. <i>Cell Reports</i> , 2017 , 18, 1079-1089	10.6	42
247	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
246	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
245	The Profile and Dynamics of RNA Modifications in Animals. <i>ChemBioChem</i> , 2017 , 18, 979-984	3.8	23
244	Synthesis and biophysical analysis of modified thymine-containing DNA oligonucleotides. <i>Chemical Communications</i> , 2017 , 53, 1389-1392	5.8	20
243	DNA sequencing at 40: past, present and future. <i>Nature</i> , 2017 , 550, 345-353	50.4	486
242	Synthesis and Multiple Incorporations of 2QO-Methyl-5-hydroxymethylcytidine, 5-Hydroxymethylcytidine and 5-Formylcytidine Monomers into RNA Oligonucleotides. <i>ChemBioChem</i> , 2017 , 18, 2236-2241	3.8	10
241	Mapping and elucidating the function of modified bases in DNA. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	41
240	Base resolution maps reveal the importance of 5-hydroxymethylcytosine in a human glioblastoma. <i>Npj Genomic Medicine</i> , 2017 , 2, 6	6.2	16
239	Local epigenetic reprogramming induced by G-quadruplex ligands. <i>Nature Chemistry</i> , 2017 , 9, 1110-1117	17.6	66

238	Machine learning model for sequence-driven DNA G-quadruplex formation. <i>Scientific Reports</i> , 2017 , 7, 14535	4.9	55
237	Single genome retrieval of context-dependent variability in mutation rates for human germline. <i>BMC Genomics</i> , 2017 , 18, 81	4.5	2
236	Genome-wide mapping of 5-hydroxymethyluracil in the eukaryote parasite <i>Leishmania</i> . <i>Genome Biology</i> , 2017 , 18, 23	18.3	40
235	rG4-seq reveals widespread formation of G-quadruplex structures in the human transcriptome. <i>Nature Methods</i> , 2016 , 13, 841-4	21.6	211
234	DSBCapture: in situ capture and sequencing of DNA breaks. <i>Nature Methods</i> , 2016 , 13, 855-7	21.6	82
233	G-quadruplex structures mark human regulatory chromatin. <i>Nature Genetics</i> , 2016 , 48, 1267-72	36.3	437
232	An Epigenetics-Inspired DNA-Based Data Storage System. <i>Angewandte Chemie</i> , 2016 , 128, 11310-11314	3.6	8
231	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
230	An Epigenetics-Inspired DNA-Based Data Storage System. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11144-8	16.4	19
229	Long genes and genes with multiple splice variants are enriched in pathways linked to cancer and other multigenic diseases. <i>BMC Genomics</i> , 2016 , 17, 225	4.5	12
228	Photoactivation of Mutant Isocitrate Dehydrogenase 2 Reveals Rapid Cancer-Associated Metabolic and Epigenetic Changes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 718-21	16.4	32
227	In vivo genome-wide profiling reveals a tissue-specific role for 5-formylcytosine. <i>Genome Biology</i> , 2016 , 17, 141	18.3	52
226	Enhanced Methylation Analysis by Recovery of Unsequenceable Fragments. <i>PLoS ONE</i> , 2016 , 11, e0152337	3.7	10
225	Structural Analysis using SHALiPE to Reveal RNA G-Quadruplex Formation in Human Precursor MicroRNA. <i>Angewandte Chemie</i> , 2016 , 128, 9104-9107	3.6	7
224	Identification of small molecule inhibitors of the Lin28-mediated blockage of pre-let-7g processing. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 10208-10216	3.9	20
223	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
222	Formation and abundance of 5-hydroxymethylcytosine in RNA. <i>ChemBioChem</i> , 2015 , 16, 752-5	3.8	109
221	High-throughput sequencing of DNA G-quadruplex structures in the human genome. <i>Nature Biotechnology</i> , 2015 , 33, 877-81	44.5	652

220	5-Formylcytosine can be a stable DNA modification in mammals. <i>Nature Chemical Biology</i> , 2015 , 11, 555-561	11.7	185
219	Targeted Detection of G-Quadruplexes in Cellular RNAs. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6751-4	16.4	47
218	Selective Chemical Labeling of Natural T Modifications in DNA. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9270-2	16.4	43
217	Targeted Detection of G-Quadruplexes in Cellular RNAs. <i>Angewandte Chemie</i> , 2015 , 127, 6855-6858	3.6	7
216	Decoding genomes. <i>Biochemical Society Transactions</i> , 2015 , 43, 1-5	5.1	1
215	G-quadruplex ligands exhibit differential G-tetrad selectivity. <i>Chemical Communications</i> , 2015 , 51, 8048-508	5.8	58
214	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
213	The Biology and Genomic Localization of Cytosine Modifications. <i>Epigenetics and Human Health</i> , 2015 , 167-191		1
212	Solexa sequencing: decoding genomes on a population scale. <i>Clinical Chemistry</i> , 2015 , 61, 21-4	5.5	17
211	5-Formylcytosine alters the structure of the DNA double helix. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 44-49	17.6	121
210	oxBS-450K: a method for analysing hydroxymethylation using 450K BeadChips. <i>Methods</i> , 2015 , 72, 9-15	4.6	74
209	Chemical methods for decoding cytosine modifications in DNA. <i>Chemical Reviews</i> , 2015 , 115, 2240-54	68.1	87
208	Dual Binding of an Antibody and a Small Molecule Increases the Stability of TERRA G-Quadruplex. <i>Angewandte Chemie</i> , 2015 , 127, 924-927	3.6	9
207	FOXM1 binds directly to non-consensus sequences in the human genome. <i>Genome Biology</i> , 2015 , 16, 130	18.3	32
206	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
205	Dual binding of an antibody and a small molecule increases the stability of TERRA G-quadruplex. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 910-3	16.4	24
204	Insights into the mechanism of a G-quadruplex-unwinding DEAH-box helicase. <i>Nucleic Acids Research</i> , 2015 , 43, 2223-31	20.1	66
203	Concurrent BCL2/MYC Gene Amplification Associates with Increased DNA G-Quadruplex Formation in DLBCL. <i>Blood</i> , 2015 , 126, 2641-2641	2.2	

202	Existence and consequences of G-quadruplex structures in DNA. <i>Current Opinion in Genetics and Development</i> , 2014 , 25, 22-9	4.9	274
201	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
200	Suppression of the FOXM1 transcriptional programme via novel small molecule inhibition. <i>Nature Communications</i> , 2014 , 5, 5165	17.4	121
199	Chemical biology of genomic DNA: minimizing PCR bias. <i>Chemical Communications</i> , 2014 , 50, 12047-9	5.8	4
198	Targeting a c-MYC G-quadruplex DNA with a fragment library. <i>Chemical Communications</i> , 2014 , 50, 1704-7	3.8	41
197	5-Hydroxymethylcytosine is a predominantly stable DNA modification. <i>Nature Chemistry</i> , 2014 , 6, 1049-55	17.6	337
196	Targeting DNA G-quadruplexes with helical small molecules. <i>ChemBioChem</i> , 2014 , 15, 2563-70	3.8	29
195	Nucleotide contributions to the structural integrity and DNA replication initiation activity of noncoding y RNA. <i>Biochemistry</i> , 2014 , 53, 5848-63	3.2	15
194	Quantitative sequencing of 5-formylcytosine in DNA at single-base resolution. <i>Nature Chemistry</i> , 2014 , 6, 435-40	17.6	183
193	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
192	Chemical biology on the genome. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 4356-70	3.4	9
191	Elevated levels of G-quadruplex formation in human stomach and liver cancer tissues. <i>PLoS ONE</i> , 2014 , 9, e102711	3.7	117
190	Determinants of G quadruplex-induced epigenetic instability in REV1-deficient cells. <i>EMBO Journal</i> , 2014 , 33, 2507-20	13	88
189	G-quadruplexes regulate Epstein-Barr virus-encoded nuclear antigen 1 mRNA translation. <i>Nature Chemical Biology</i> , 2014 , 10, 358-64	11.7	167
188	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
187	Light-mediated in cell downregulation of G-quadruplex-containing genes using a photo-caged ligand. <i>Chemical Communications</i> , 2013 , 49, 8453-5	5.8	24
186	Oxidative bisulfite sequencing of 5-methylcytosine and 5-hydroxymethylcytosine. <i>Nature Protocols</i> , 2013 , 8, 1841-51	18.8	241
185	Quantitative visualization of DNA G-quadruplex structures in human cells. <i>Nature Chemistry</i> , 2013 , 5, 182-6	17.6	1371

184	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
183	An Acetylene-Bridged 6,8-Purine Dimer as a Fluorescent Switch-On Probe for Parallel G-Quadruplexes. <i>Angewandte Chemie</i> , 2013 , 125, 1468-1471	3.6	6
182	G-quadruplex structures are stable and detectable in human genomic DNA. <i>Nature Communications</i> , 2013 , 4, 1796	17.4	324
181	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
180	Downregulation of androgen receptor transcription by promoter g-quadruplex stabilization as a potential alternative treatment for castrate-resistant prostate cancer. <i>Biochemistry</i> , 2013 , 52, 1429-36	3.2	21
179	Binding interactions between long noncoding RNA HOTAIR and PRC2 proteins. <i>Biochemistry</i> , 2013 , 52, 9519-27	3.2	115
178	Targeting RNA-protein interactions within the human immunodeficiency virus type 1 lifecycle. <i>Biochemistry</i> , 2013 , 52, 9269-74	3.2	25
177	Mechanochemical properties of individual human telomeric RNA (TERRA) G-quadruplexes. <i>ChemBioChem</i> , 2013 , 14, 1931-5	3.8	25
176	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
175	Synthesis of bis-indole carboxamides as G-quadruplex stabilizing and inducing ligands. <i>Chemistry - A European Journal</i> , 2012 , 18, 554-64	4.8	34
174	An RNA hairpin to G-quadruplex conformational transition. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19953-6	16.4	67
173	Comparative structural effects of HIV-1 Gag and nucleocapsid proteins in binding to and unwinding of the viral RNA packaging signal. <i>Biochemistry</i> , 2012 , 51, 3162-9	3.2	13
172	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
171	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
170	Selective RNA Versus DNA G-Quadruplex Targeting by In Situ Click Chemistry. <i>Angewandte Chemie</i> , 2012 , 124, 11235-11240	3.6	28
169	Innentitelbild: Selective RNA Versus DNA G-Quadruplex Targeting by In Situ Click Chemistry (Angew. Chem. 44/2012). <i>Angewandte Chemie</i> , 2012 , 124, 11064-11064	3.6	
168	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
167	Experimental approaches to identify cellular G-quadruplex structures and functions. <i>Methods</i> , 2012 , 57, 84-92	4.6	37

166	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
165	GENCODE: the reference human genome annotation for The ENCODE Project. <i>Genome Research</i> , 2012 , 22, 1760-74	9.7	3142
164	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
163	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
162	Quantitative sequencing of 5-methylcytosine and 5-hydroxymethylcytosine at single-base resolution. <i>Science</i> , 2012 , 336, 934-7	33.3	707
161	Demonstration of ligand decoration, and ligand-induced perturbation, of G-quadruplexes in a plasmid using atomic force microscopy. <i>Biochemistry</i> , 2012 , 51, 578-85	3.2	21
160	5QTR RNA G-quadruplexes: translation regulation and targeting. <i>Nucleic Acids Research</i> , 2012 , 40, 4727-41	4.1	465
159	Small-molecule-induced DNA damage identifies alternative DNA structures in human genes. <i>Nature Chemical Biology</i> , 2012 , 8, 301-10	11.7	467
158	FANCI coordinates two pathways that maintain epigenetic stability at G-quadruplex DNA. <i>Nucleic Acids Research</i> , 2012 , 40, 1485-98	20.1	153
157	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
156	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
155	The transcription factor FOXM1 is a cellular target of the natural product thiostrepton. <i>Nature Chemistry</i> , 2011 , 3, 725-31	17.6	184
154	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
153	Targeting G-quadruplexes in gene promoters: a novel anticancer strategy?. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 261-75	64.1	1208
152	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
151	Genom-Entschlüsselung mit Hochgeschwindigkeitsverfahren: Bedeutung für Wissenschaft und Medizin. <i>Angewandte Chemie</i> , 2011 , 123, 12612-12616	3.6	5
150	Decoding genomes at high speed: implications for science and medicine. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12406-10	16.4	10
149	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

148	A LIN28-dependent structural change in pre-let-7g directly inhibits dicer processing. <i>Biochemistry</i> , 2011 , 50, 7514-21	3.2	31
147	Sequencing nucleic acids: from chemistry to medicine. <i>Chemical Communications</i> , 2011 , 47, 7281-6	5.8	23
146	Gene inactivation and its implications for annotation in the era of personal genomics. <i>Genes and Development</i> , 2011 , 25, 1-10	12.6	23
145	Small-molecule-mediated G-quadruplex isolation from human cells. <i>Nature Chemistry</i> , 2010 , 2, 1095-8	17.6	138
144	Distinct functions of maternal and somatic Pat1 protein paralogs. <i>Rna</i> , 2010 , 16, 2094-107	5.8	43
143	RNA conformation in catalytically active human telomerase. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2852-3	16.4	15
142	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
141	Targeting the c-Kit Promoter G-quadruplexes with 6-Substituted Indenoisoquinolines. <i>ACS Medicinal Chemistry Letters</i> , 2010 , 1, 306-10	4.3	57
140	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
139	Ensemble and single molecule FRET analysis of the structure and unfolding kinetics of the c-kit promoter quadruplexes. <i>Chemical Communications</i> , 2010 , 46, 946-8	5.8	11
138	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
137	G-quadruplex nucleic acids as therapeutic targets. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 345-53	9.7	457
136	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
135	Single-molecule analysis of the human telomerase RNA.dyskerin interaction and the effect of dyskeratosis congenita mutations. <i>Biochemistry</i> , 2009 , 48, 10858-65	3.2	15
134	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
133	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
132	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
131	Controlled-folding of a small molecule modulates DNA G-quadruplex recognition. <i>Chemical Communications</i> , 2009 , 80-2	5.8	24

130	Recognition and discrimination of DNA quadruplexes by acridine-peptide conjugates. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 76-84	3.9	50
129	Accurate whole human genome sequencing using reversible terminator chemistry. <i>Nature</i> , 2008 , 456, 53-9	50.4	2615
128	Single-molecule analysis of human telomerase monomer. <i>Nature Chemical Biology</i> , 2008 , 4, 287-9	11.7	45
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4	RNA G-quadruplexes mark repressive upstream open reading frames in human mRNAs	2
3	Core variability in substitution rates and the basal sequence characteristics of the human genome	3
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