JÃ¸rgen Kjems

List of Publications by Year
in descending order

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297	33,672	6613 79	4432 172
papers	citations	h-index	g-index

303	303	303	33994
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Natural RNA circles function as efficient microRNA sponges. Nature, 2013, 495, 384-388.	27.8	6,415
2	The biogenesis, biology and characterization of circular RNAs. Nature Reviews Genetics, 2019, 20, 675-691.	16.3	2,832
3	Self-assembly of a nanoscale DNA box with a controllable lid. Nature, 2009, 459, 73-76.	27.8	1,464
4	Circular RNAs in cancer: opportunities and challenges in the field. Oncogene, 2018, 37, 555-565.	5.9	1,102
5	Circular RNA and miR-7 in Cancer. Cancer Research, 2013, 73, 5609-5612.	0.9	847
6	miRNA-dependent gene silencing involving Ago2-mediated cleavage of a circular antisense RNA. EMBO Journal, 2011, 30, 4414-4422.	7.8	841
7	RNA Interference in Vitro and in Vivo Using a Novel Chitosan/siRNA Nanoparticle System. Molecular Therapy, 2006, 14, 476-484.	8.2	549
8	Single-molecule chemical reactions on DNA origami. Nature Nanotechnology, 2010, 5, 200-203.	31.5	478
9	Circular RNAs: Identification, biogenesis and function. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 163-168.	1.9	469
10	Spatio-temporal regulation of circular RNA expression during porcine embryonic brain development. Genome Biology, 2015, 16, 245.	8.8	422
11	The influence of polymeric properties on chitosan/siRNA nanoparticle formulation and gene silencing. Biomaterials, 2007, 28, 1280-1288.	11.4	382
12	Insights into circular RNA biology. RNA Biology, 2017, 14, 1035-1045.	3.1	362
13	Genomic Profiling of MicroRNAs in Bladder Cancer: miR-129 Is Associated with Poor Outcome and Promotes Cell Death In vitro. Cancer Research, 2009, 69, 4851-4860.	0.9	349
14	Comparison of circular RNA prediction tools. Nucleic Acids Research, 2016, 44, e58-e58.	14.5	349
15	Coordinated epigenetic repression of the miRâ€200 family and miRâ€205 in invasive bladder cancer. International Journal of Cancer, 2011, 128, 1327-1334.	5.1	335
16	The emerging landscape of circular RNA in life processes. RNA Biology, 2017, 14, 992-999.	3.1	328
17	A large-scale chemical modification screen identifies design rules to generate siRNAs with high activity, high stability and low toxicity. Nucleic Acids Research, 2009, 37, 2867-2881.	14.5	315
18	Photonic-crystal waveguide biosensor. Optics Express, 2007, 15, 3169.	3.4	287

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19	Chitosan/siRNA Nanoparticleâ€“mediated TNF-Î± Knockdown in Peritoneal Macrophages for Anti-inflammatory Treatment in a Murine Arthritis Model. Molecular Therapy, 2009, 17, 162-168.	8.2	270
20	DNA Origami Design of Dolphin-Shaped Structures with Flexible Tails. ACS Nano, 2008, 2, 1213-1218.	14.6	264
21	MicroRNA-128 Governs Neuronal Excitability and Motor Behavior in Mice. Science, 2013, 342, 1254-1258.	12.6	264
22	Size-Dependent Accumulation of PEGylated Silane-Coated Magnetic Iron Oxide Nanoparticles in Murine Tumors. ACS Nano, 2009, 3, 1947-1951.	14.6	242
23	Structural analysis of the interaction between the human immunodeficiency virus Rev protein and the Rev response element.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 683-687.	7.1	240
24	The Effect of Chemical Modification and Nanoparticle Formulation on Stability and Biodistribution of siRNA in Mice. Molecular Therapy, 2009, 17, 1225-1233.	8.2	229
25	A microRNA detection system based on padlock probes and rolling circle amplification. Rna, 2006, 12, 1747-1752.	3.5	206
26	MicroRNAs in epilepsy: pathophysiology and clinical utility. Lancet Neurology, The, 2016, 15, 1368-1376.	10.2	200
27	Evolutionary relationships amongst archaebacteria. Journal of Molecular Biology, 1987, 195, 43-61.	4.2	198
28	RanGTP-Regulated Interactions of CRM1 with Nucleoporins and a Shuttling DEAD-Box Helicase. Molecular and Cellular Biology, 1999, 19, 6276-6285.	2.3	193
29	The Specificity of the CRM1-Rev Nuclear Export Signal Interaction Is Mediated by RanGTP. Journal of Biological Chemistry, 1998, 273, 33414-33422.	3.4	188
30	RNA Aptamer-Based Electrochemical Biosensor for Selective and Label-Free Analysis of Dopamine. Analytical Chemistry, 2013, 85, 121-128.	6.5	184
31	Chitosan/siRNA Nanoparticles Encapsulated in PLGA Nanofibers for siRNA Delivery. ACS Nano, 2012, 6, 4835-4844.	14.6	181
32	Specific regulation of mRNA splicing in vitro by a peptide from HIV-1 Rev. Cell, 1991, 67, 169-178.	28.9	178
33	Improved silencing properties using small internally segmented interfering RNAs. Nucleic Acids Research, 2007, 35, 5886-5897.	14.5	174
34	Circular RNAs as novel regulators of Î²-cell functions in normal and disease conditions. Molecular Metabolism, 2018, 9, 69-83.	6.5	170
35	Control of enzyme reactions by a reconfigurable DNA nanovault. Nature Communications, 2017, 8, 992.	12.8	160
36	A screen of chemical modifications identifies position-specific modification by UNA to most potently reduce siRNA off-target effects. Nucleic Acids Research, 2010, 38, 5761-5773.	14.5	157

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37	A 5â€² Splice Site Enhances the Recruitment of Basal Transcription Initiation Factors In Vivo. Molecular Cell, 2008, 29, 271-278.	9.7	156
38	Nanomechanical Sensing of DNA Sequences Using Piezoresistive Cantilevers. Langmuir, 2005, 21, 8400-8408.	3.5	155
39	Crosstalk between mRNA 3â€² End Processing andÂTranscription Initiation. Molecular Cell, 2010, 40, 410-422.	9.7	153
40	Template-directed covalent conjugation of DNA to native antibodies, transferrin and other metal-binding proteins. Nature Chemistry, 2014, 6, 804-809.	13.6	152
41	The hnRNP A1 protein regulates HIV-1 tat splicing via a novel intron silencer element. EMBO Journal, 2001, 20, 5748-5758.	7.8	145
42	CRM1 Mediates the Export of ADAR1 through a Nuclear Export Signal within the Z-DNA Binding Domain. Molecular and Cellular Biology, 2001, 21, 7862-7871.	2.3	140
43	Seemingly Neutral Polymorphic Variants May Confer Immunity to Splicing-Inactivating Mutations: A Synonymous SNP in Exon 5 of MCAD Protects from Deleterious Mutations in a Flanking Exonic Splicing Enhancer. American Journal of Human Genetics, 2007, 80, 416-432.	6.2	140
44	Circular RNAs are abundantly expressed and upregulated during human epidermal stem cell differentiation. RNA Biology, 2018, 15, 280-291.	3.1	137
45	MicroRNA Alterations and Associated Aberrant DNA Methylation Patterns across Multiple Sample Types in Oral Squamous Cell Carcinoma. PLoS ONE, 2011, 6, e27840.	2.5	137
46	Novel splicing mechanism for the ribosomal RNA intron in the archaebacterium desulfurococcus mobilis. Cell, 1988, 54, 693-703.	28.9	136
47	miR-145 induces caspase-dependent and -independent cell death in urothelial cancer cell lines with targeting of an expression signature present in Ta bladder tumors. Oncogene, 2010, 29, 1073-1084.	5.9	135
48	Argonaute 2 in dopamine 2 receptorâ€“expressing neurons regulates cocaine addiction. Journal of Experimental Medicine, 2010, 207, 1843-1851.	8.5	134
49	A synthetic HIV-1 Rev inhibitor interfering with the CRM1-mediated nuclear export. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14440-14445.	7.1	120
50	Construction of a 4 Zeptoliters Switchable 3D DNA Box Origami. ACS Nano, 2012, 6, 10050-10053.	14.6	120
51	Cantilever Sensor for Nanomechanical Detection of Specific Protein Conformations. Nano Letters, 2005, 5, 2385-2388.	9.1	115
52	SC35 and Heterogeneous Nuclear Ribonucleoprotein A/B Proteins Bind to a Juxtaposed Exonic Splicing Enhancer/Exonic Splicing Silencer Element to Regulate HIV-1 tat Exon 2 Splicing. Journal of Biological Chemistry, 2004, 279, 10077-10084.	3.4	114
53	Intracellular Delivery of a Planar DNA Origami Structure by the Transferrinâ€Receptor Internalization Pathway. Small, 2016, 12, 2634-2640.	10.0	114
54	An Unusual Topological Structure of the HIV-1 Rev Response Element. Cell, 2013, 155, 594-605.	28.9	109

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55	A simple method for deriving functional MSCs and applied for osteogenesis in 3D scaffolds. Scientific Reports, 2013, 3, 2243.	3.3	108
56	LifeTime and improving European healthcare through cell-based interceptive medicine. Nature, 2020, 587, 377-386.	27.8	108
57	The miR-143/-145 cluster regulates plasminogen activator inhibitor-1 in bladder cancer. British Journal of Cancer, 2012, 106, 366-374.	6.4	106
58	Effect of physicochemical properties on intranasal nanoparticle transit into murine olfactory epithelium. Journal of Drug Targeting, 2009, 17, 543-552.	4.4	105
59	Effects of Tween 80 on Growth and Biofilm Formation in Laboratory Media. Frontiers in Microbiology, 2016, 7, 1878.	3.5	105
60	Circular RNA expression is abundant and correlated to aggressiveness in early-stage bladder cancer. Npj Genomic Medicine, 2017, 2, 36.	3.8	105
61	An intron in the 23S ribosomal RNA gene of the archaebacterium Desulfurococcus mobilis. Nature, 1985, 318, 675-677.	27.8	104
62	Mapping the RNA binding sites for human immunodeficiency virus type-1 Gag and NC proteins within the complete HIV-1 and -2 untranslated leader regions. Nucleic Acids Research, 1998, 26, 3667-3676.	14.5	101
63	RNA Interactions in the 5â€² Region of the HIV-1 Genome. Journal of Molecular Biology, 2004, 336, 369-379.	4.2	101
64	Utilization of unlocked nucleic acid (UNA) to enhance siRNA performance in vitro and in vivo. Molecular BioSystems, 2010, 6, 862.	2.9	101
65	Delivery of siRNA from lyophilized polymeric surfaces. Biomaterials, 2008, 29, 506-512.	11.4	100
66	Enhanced Catalysis from Multienzyme Cascades Assembled on a DNA Origami Triangle. ACS Nano, 2019, 13, 13677-13689.	14.6	100
67	Curvature of Synthetic and Natural Surfaces Is an Important Target Feature in Classical Pathway Complement Activation. Journal of Immunology, 2010, 184, 1931-1945.	0.8	98
68	hnRNP A1 controls HIV-1 mRNA splicing through cooperative binding to intron and exon splicing silencers in the context of a conserved secondary structure. Rna, 2002, 8, 1401-1415.	3.5	97
69	Translational repression of E2F1 mRNA in carcinoma in situ and normal testis correlates with expression of the miR-17-92 cluster. Cell Death and Differentiation, 2007, 14, 879-882.	11.2	96
70	Chitosan polyplex mediated delivery of miRNA-124 reduces activation of microglial cells in vitro and in rat models of spinal cord injury. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 643-653.	3.3	93
71	Enzyme-free digital counting of endogenous circular RNA molecules in B-cell malignancies. Laboratory Investigation, 2018, 98, 1657-1669.	3.7	93
72	Chitosan composites for biomedical applications: Status, challenges and perspectives. Materials Science and Technology, 2008, 24, 1053-1061.	1.6	92

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73	Impact of PEG Chain Length on the Physical Properties and Bioactivity of PEGylated Chitosan/siRNA Nanoparticles in Vitro and in Vivo. ACS Applied Materials & Interfaces, 2017, 9, 12203-12216.	8.0	92
74	Optimized siRNA-PEG Conjugates for Extended Blood Circulation and Reduced Urine Excretion in Mice. Theranostics, 2013, 3, 201-209.	10.0	88
75	Pulmonary Gene Silencing in Transgenic EGFP Mice Using Aerosolised Chitosan/siRNA Nanoparticles. Pharmaceutical Research, 2010, 27, 2520-2527.	3.5	87
76	A novel approach to describe a U1 snRNA binding site. Nucleic Acids Research, 2003, 31, 6963-6975.	14.5	86
77	Construction of a Fuzzy and Boolean Logic Gates Based on DNA. Small, 2015, 11, 1811-1817.	10.0	86
78	A microRNAâ€129â€5p/Rbfox crosstalk coordinates homeostatic downscaling of excitatory synapses. EMBO Journal, 2017, 36, 1770-1787.	7.8	85
79	Megalin-Mediated Specific Uptake of Chitosan/siRNA Nanoparticles in Mouse Kidney Proximal Tubule Epithelial Cells Enables AQP1 Gene Silencing. Theranostics, 2014, 4, 1039-1051.	10.0	83
80	Comparative genomics beyond sequence-based alignments: RNA structures in the ENCODE regions. Genome Research, 2008, 18, 242-251.	5.5	82
81	Development of Therapeutic-Grade Small Interfering RNAs by Chemical Engineering. Frontiers in Genetics, 2012, 3, 154.	2.3	82
82	Biological Activity and Biotechnological Aspects of Locked Nucleic Acids. Advances in Genetics, 2013, 82, 47-107.	1.8	82
83	In Vitro Interaction between Human Immunodeficiency Virus Type 1 Rev Protein and Splicing Factor ASF/SF2-associated Protein, p32. Journal of Biological Chemistry, 1996, 271, 10066-10072.	3.4	81
84	siRNA Nanoparticle Functionalization of Nanostructured Scaffolds Enables Controlled Multilineage Differentiation of Stem Cells. Molecular Therapy, 2010, 18, 2018-2027.	8.2	81
85	Ratjadones inhibit nuclear export by blocking CRM1/exportin 1. Experimental Cell Research, 2003, 286, 321-331.	2.6	80
86	A DNAâ€Programmed Liposome Fusion Cascade. Angewandte Chemie - International Edition, 2017, 56, 13228-13231.	13.8	80
87	MicroRNA expression profiling of carcinoma in situ cells of the testis. Endocrine-Related Cancer, 2012, 19, 365-379.	3.1	79
88	The sequence complementarity between HIV-1 5â€² splice site SD4 and U1 snRNA determines the steady-state level of an unstable env pre-mRNA. Rna, 2001, 7, 421-434.	3.5	78
89	Chitosan/siRNA Nanoparticles Biofunctionalize Nerve Implants and Enable Neurite Outgrowth. Nano Letters, 2010, 10, 3933-3939.	9.1	78
90	Evaluating the accuracy of SHAPE-directed RNA secondary structure predictions. Nucleic Acids Research, 2013, 41, 2807-2816.	14.5	77

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91	Role of the Trans-activation Response Element in Dimerization of HIV-1 RNA. Journal of Biological Chemistry, 2004, 279, 22243-22249.	3.4	76
92	Archaeal rRNA operons. Trends in Biochemical Sciences, 1991, 16, 22-26.	7.5	75
93	Defining a 5??? splice site by functional selection in the presence and absence of U1 snRNA 5??? end. Rna, 2002, 8, 166-179.	3.5	75
94	The RNA Atlas expands the catalog of human non-coding RNAs. Nature Biotechnology, 2021, 39, 1453-1465.	17.5	75
95	Chitosan/siRNA Nanoparticles Targeting Cyclooxygenase Type 2 Attenuate Unilateral Ureteral Obstruction-induced Kidney Injury in Mice. Theranostics, 2015, 5, 110-123.	10.0	72
96	Specificity of Watsonâ€“Crick Base Pairing on a Solid Surface Studied at the Atomic Scale. Angewandte Chemie - International Edition, 2008, 47, 9673-9676.	13.8	71
97	Aberrant expression of miRâ€218 and miRâ€204 in human mesial temporal lobe epilepsy and hippocampal sclerosisâ€”Convergence on axonal guidance. Epilepsia, 2014, 55, 2017-2027.	5.1	71
98	Folic acid conjugated chitosan for targeted delivery of siRNA to activated macrophages in vitro and in vivo. Journal of Materials Chemistry B, 2014, 2, 8608-8615.	5.8	69
99	Evidence of Stranskiâ€“Krastanov growth at the initial stage of atmospheric water condensation. Nature Communications, 2014, 5, 4837.	12.8	68
100	DNA nanovehicles and the biological barriers. Advanced Drug Delivery Reviews, 2016, 106, 183-191.	13.7	66
101	Protection and Systemic Translocation of siRNA Following Oral Administration of Chitosan/siRNA Nanoparticles. Molecular Therapy - Nucleic Acids, 2013, 2, e76.	5.1	65
102	Ribosomal RNA introns in archaea and evidence for RNA conformational changes associated with splicing.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 439-443.	7.1	63
103	Micro<scp>RNA</scp>â€137 promoter methylation in oral lichen planus and oral squamous cell carcinoma. Journal of Oral Pathology and Medicine, 2013, 42, 315-321.	2.7	63
104	Unconditioned commercial embryo culture media contain a large variety of non-declared proteins: a comprehensive proteomics analysis. Human Reproduction, 2014, 29, 2421-2430.	0.9	63
105	Accumulation of magnetic iron oxide nanoparticles coated with variably sized polyethylene glycol in murine tumors. Nanoscale, 2012, 4, 2352.	5.6	61
106	Efficient inhibition of HIV-1 expression by LNA modified antisense oligonucleotides and DNAzymes targeted to functionally selected binding sites. Retrovirology, 2007, 4, 29.	2.0	60
107	Bioactive coronary stent coating based on layer-by-layer technology for siRNA release. Acta Biomaterialia, 2013, 9, 6741-6752.	8.3	60
108	Argonaute-associated short introns are a novel class of gene regulators. Nature Communications, 2016, 7, 11538.	12.8	59

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109	Inefficient Spliceosome Assembly and Abnormal Branch Site Selection in Splicing of an HIV-1 Transcript in Vitro. Journal of Biological Chemistry, 1995, 270, 24060-24066.	3.4	58
110	The strength of the HIV-1 3' splice sites affects Rev function. Retrovirology, 2006, 3, 89.	2.0	58
111	A serum-stable RNA aptamer specific for SARS-CoV-2 neutralizes viral entry. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	58
112	Best practice standards for circular RNA research. Nature Methods, 2022, 19, 1208-1220.	19.0	58
113	Molecular strategies to inhibit HIV-1 replication. Retrovirology, 2005, 2, 10.	2.0	57
114	Endosomal Trafficking of HIV-1 Gag and Genomic RNAs Regulates Viral Egress. Journal of Biological Chemistry, 2009, 284, 19727-19743.	3.4	57
115	Intraperitoneal administration of chitosan/DsiRNA nanoparticles targeting TNFÎ± prevents radiation-induced fibrosis. Radiotherapy and Oncology, 2010, 97, 143-148.	0.6	57
116	A distant cis acting intronic element induces site-selective RNA editing. Nucleic Acids Research, 2012, 40, 9876-9886.	14.5	56
117	Fabrication and characterization of a rapid prototyped tissue engineering scaffold with embedded multicomponent matrix for controlled drug release. International Journal of Nanomedicine, 2012, 7, 4285.	6.7	56
118	SF2/ASF binds to a splicing enhancer in the third HIV-1 tat exon and stimulates U2AF binding independently of the RS domain 1 1Edited by J. Karn. Journal of Molecular Biology, 2001, 312, 649-662.	4.2	55
119	Single Molecule Atomic Force Microscopy Studies of Photosensitized Singlet Oxygen Behavior on a DNA Origami Template. ACS Nano, 2010, 4, 7475-7480.	14.6	55
120	Quantification of cellular uptake of DNA nanostructures by qPCR. Methods, 2014, 67, 193-197.	3.8	54
121	Gene organization, transcription signals and processing of the single ribosomal RNA operon of the archaebacteriumThermoproteus tenax. Nucleic Acids Research, 1987, 15, 4821-4835.	14.5	53
122	Surface functionalisation of PLGA nanoparticles for gene silencing. Biomaterials, 2010, 31, 5671-5677.	11.4	53
123	Direct Force Measurements between siRNA and Chitosan Molecules Using Force Spectroscopy. Biophysical Journal, 2007, 93, 952-959.	0.5	52
124	MicroRNA Functionalized Microporous Titanium Oxide Surface by Lyophilization with Enhanced Osteogenic Activity. ACS Applied Materials & Interfaces, 2013, 5, 2733-2744.	8.0	52
125	Circulating miRNAs as biomarkers for oral squamous cell carcinoma recurrence in operated patients. Oncotarget, 2017, 8, 8206-8214.	1.8	52
126	Perylene Attached to 2â€²-Amino-LNA: Synthesis, Incorporation into Oligonucleotides, and Remarkable Fluorescence Properties in Vitro and in Cell Culture. Bioconjugate Chemistry, 2008, 19, 1995-2007.	3.6	51

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127	Ultrastable green fluorescence carbon dots with a high quantum yield for bioimaging and use as theranostic carriers. Journal of Materials Chemistry B, 2015, 3, 4577-4584.	5.8	51
128	Synthesis of 2â€²-O-modified adenosine building blocks and application for RNA interference. Bioorganic and Medicinal Chemistry, 2008, 16, 518-529.	3.0	50
129	Chemical Modification of Small Interfering RNA. Methods in Molecular Biology, 2011, 721, 77-103.	0.9	49
130	Chitosan Hydrogel as siRNA vector for prolonged gene silencing. Journal of Nanobiotechnology, 2014, 12, 23.	9.1	49
131	Enhanced efficacy of chemotherapy for breast cancer stem cells by simultaneous suppression of multidrug resistance and antiapoptotic cellular defense. Acta Biomaterialia, 2015, 28, 171-182.	8.3	49
132	Nanocarrier Stimuli-Activated Gene Delivery. Small, 2007, 3, 54-57.	10.0	48
133	Naked siLNA-Mediated Gene Silencing of Lung Bronchoepithelium EGFP Expression After Intravenous Administration. Oligonucleotides, 2009, 19, 163-168.	2.7	48
134	Functional Patterning of DNA Origami by Parallel Enzymatic Modification. Bioconjugate Chemistry, 2011, 22, 819-823.	3.6	47
135	PPfold 3.0: fast RNA secondary structure prediction using phylogeny and auxiliary data. Bioinformatics, 2012, 28, 2691-2692.	4.1	46
136	miRConnect: Identifying Effector Genes of miRNAs and miRNA Families in Cancer Cells. PLoS ONE, 2011, 6, e26521.	2.5	46
137	Dimerization and Template Switching in the 5â€² Untranslated Region between Various Subtypes of Human Immunodeficiency Virus Type 1. Journal of Virology, 2003, 77, 3020-3030.	3.4	45
138	Supramolecular Porous Network Formed by Molecular Recognition between Chemically Modified Nucleobases Guanine and Cytosine. Angewandte Chemie - International Edition, 2010, 49, 9373-9377.	13.8	45
139	Pluronic F127-Folate Coated Super Paramagenic Iron Oxide Nanoparticles as Contrast Agent for Cancer Diagnosis in Magnetic Resonance Imaging. Polymers, 2019, 11, 743.	4.5	45
140	Comparison of transfer RNA and ribosomal RNA intron splicing in the extreme thermophile and archaebacterium Desulfurococcus mobilis. Canadian Journal of Microbiology, 1989, 35, 210-214.	1.7	44
141	Polycation-based nanoparticle delivery for improved RNA interference therapeutics. Expert Opinion on Biological Therapy, 2007, 7, 1811-1822.	3.1	44
142	Intracellular siRNA and precursor miRNA trafficking using bioresponsive copolypeptides. Journal of Gene Medicine, 2008, 10, 81-93.	2.8	43
143	Bioresponsive hyperbranched polymers for siRNA and miRNA delivery. Journal of Drug Targeting, 2010, 18, 812-820.	4.4	43
144	Genetically Encoded, Functional Singleâ€Strand RNA Origami: Anticoagulant. Advanced Materials, 2019, 31, e1808262.	21.0	43

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145	Cellular uptake of covalent and non-covalent DNA nanostructures with different sizes and geometries. Nanoscale, 2019, 11, 10808-10818.	5.6	42
146	Regulated HIV-2 RNA dimerization by means of alternative RNA conformations. Nucleic Acids Research, 2002, 30, 2647-2655.	14.5	41
147	MicroRNA cloning and sequencing in osteosarcoma cell lines: differential role of miR-93. Cellular Oncology (Dordrecht), 2012, 35, 29-41.	4.4	41
148	Enzymatic Ligation of Large Biomolecules to DNA. ACS Nano, 2013, 7, 8098-8104.	14.6	41
149	A systems approach delivers a functional microRNA catalog and expanded targets for seizure suppression in temporal lobe epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15977-15988.	7.1	41
150	The Dimer Initiation Site Hairpin Mediates Dimerization of the Human Immunodeficiency Virus, Type 2 RNA Genome. Journal of Biological Chemistry, 2001, 276, 32345-32352.	3.4	40
151	Theranostic Niosomes for Efficient siRNA/MicroRNA Delivery and Activatable Near-Infrared Fluorescent Tracking of Stem Cells. ACS Applied Materials & Interfaces, 2018, 10, 19494-19503.	8.0	40
152	Peptideâ€“oligonucleotide conjugates as nanoscale building blocks for assembly of an artificial three-helix protein mimic. Nature Communications, 2016, 7, 12294.	12.8	39
153	Fatty Acid-Modified Gapmer Antisense Oligonucleotide and Serum Albumin Constructs for Pharmacokinetic Modulation. Molecular Therapy, 2017, 25, 1710-1717.	8.2	39
154	Spatio-temporal regulation of ADAR editing during development in porcine neural tissues. RNA Biology, 2012, 9, 1054-1065.	3.1	38
155	Theranostic tumor targeted nanoparticles combining drug delivery with dual near infrared and 19 F magnetic resonance imaging modalities. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1873-1884.	3.3	38
156	Enhancing the antibacterial efficacy of isoeugenol by emulsion encapsulation. International Journal of Food Microbiology, 2016, 229, 7-14.	4.7	38
157	SMARTer single cell total RNA sequencing. Nucleic Acids Research, 2019, 47, e93-e93.	14.5	38
158	Tools for the production and purification of full-length, N- or C-terminal 32P-labeled protein, applied to HIV-1 Gag and Rev. Gene, 1995, 162, 235-237.	2.2	37
159	Mapping metal ions at the catalytic centres of two intron-encoded endonucleases. EMBO Journal, 1997, 16, 3272-3281.	7.8	37
160	Epigenetic architecture and miRNA: reciprocal regulators. Epigenomics, 2010, 2, 823-840.	2.1	37
161	Antimicrobial effect of emulsion-encapsulated isoeugenol against biofilms of food pathogens and spoilage bacteria. International Journal of Food Microbiology, 2017, 242, 7-12.	4.7	37
162	Global MicroRNA Profiling in Human Bone Marrow Skeletalâ€"Stromal or Mesenchymalâ€“Stem Cells Identified Candidates for Bone Regeneration. Molecular Therapy, 2018, 26, 593-605.	8.2	37

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163	Semiautomated improvement of RNA alignments. Rna, 2007, 13, 1850-1859.	3.5	35
164	Antibody-based protein detection using piezoresistive cantilever arrays. Nanotechnology, 2007, 18, 125503.	2.6	35
165	RNA Aptamers as Conformational Probes and Regulatory Agents for Plasminogen Activator Inhibitor-1. Biochemistry, 2010, 49, 4103-4115.	2.5	35
166	Characterisation of aptamerâ€“target interactions by branched selection and high-throughput sequencing of SELEX pools. Nucleic Acids Research, 2015, 43, gkv700.	14.5	35
167	Electroanalysis of pM-levels of urokinase plasminogen activator in serum by phosphorothioated RNA aptamer. Analyst, The, 2015, 140, 3794-3802.	3.5	35
168	Bioactive nanoâ€fibrous scaffold for vascularized craniofacial bone regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1537-e1548.	2.7	34
169	Lipidoid-siRNA Nanoparticle-Mediated IL-1Î² Gene Silencing for Systemic Arthritis Therapy in a Mouse Model. Molecular Therapy, 2019, 27, 1424-1435.	8.2	34
170	Nuclear Export of the DEAD Box An3 Protein by CRM1 Is Coupled to An3 Helicase Activity. Journal of Biological Chemistry, 2000, 275, 11561-11568.	3.4	33
171	Stable assembly of HIV-1 export complexes occurs cotranscriptionally. Rna, 2014, 20, 1-8.	3.5	33
172	Extracellular Vesicles Transfer the Receptor Programmed Death-1 in Rheumatoid Arthritis. Frontiers in Immunology, 2017, 8, 851.	4.8	33
173	Characterization of circular RNA transcriptomes in psoriasis and atopic dermatitis reveals diseaseâ€specific expression profiles. Experimental Dermatology, 2021, 30, 1187-1196.	2.9	33
174	A DNA Tile Actuator with Eleven Discrete States. Angewandte Chemie - International Edition, 2011, 50, 3983-3987.	13.8	32
175	Enhancing miRNA annotation confidence in miRBase by continuous cross dataset analysis. RNA Biology, 2011, 8, 378-383.	3.1	32
176	Chitosan/siRNA functionalized titanium surface via a layer-by-layer approach for in vitro sustained gene silencing and osteogenic promotion. International Journal of Nanomedicine, 2015, 10, 2335.	6.7	32
177	Modular Assembly of Cell-targeting Devices Based on an Uncommon G-quadruplex Aptamer. Molecular Therapy - Nucleic Acids, 2015, 4, e251.	5.1	32
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