

# Günter Mayer

## List of Publications by Year in descending order

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133  
papers

9,601  
citations

50273

46  
h-index

39667

94  
g-index

181  
all docs

181  
docs citations

181  
times ranked

9821  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Antibody-Aptamer-Hybrid Lateral Flow Assay for Detection of CXCL9 in Antibody-Mediated Rejection after Kidney Transplantation. <i>Diagnostics</i> , 2022, 12, 308.	2.6	5
2	Splitâ€Combine Click-SELEX Reveals Ligands Recognizing the Transplant Rejection Biomarker CXCL9. <i>ACS Chemical Biology</i> , 2022, 17, 129-137.	3.4	4
3	Dependence of click-SELEX performance on the nature and average number of modified nucleotides. <i>RSC Chemical Biology</i> , 2022, 3, 288-294.	4.1	6
4	Fluorogenic RNA-Based Biosensor to Sense the Glycolytic Flux in Mammalian Cells. <i>ACS Chemical Biology</i> , 2022, 17, 1164-1173.	3.4	7
5	Aptamer loaded superparamagnetic beads for selective capturing and gentle release of activated protein C. <i>Scientific Reports</i> , 2022, 12, 7091.	3.3	2
6	Signal transduction in light-oxygen-voltage receptors lacking the active-site glutamine. <i>Nature Communications</i> , 2022, 13, 2618.	12.8	25
7	Functional and Structural Characterization of Nucleic Acid Ligands That Bind to Activated Coagulation Factor XIII. <i>Journal of Clinical Medicine</i> , 2021, 10, 677.	2.4	5
8	A SARSâ€CoVâ€2 Spike Binding DNA Aptamer that Inhibits Pseudovirus Infection by an RBDâ€Independent Mechanism**. <i>Angewandte Chemie</i> , 2021, 133, 10367-10373.	2.0	16
9	A SARSâ€CoVâ€2 Spike Binding DNA Aptamer that Inhibits Pseudovirus Infection by an RBDâ€Independent Mechanism**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10279-10285.	13.8	106
10	A synthetic RNA-based biosensor for fructose-1,6-bisphosphate that reports glycolytic flux. <i>Cell Chemical Biology</i> , 2021, 28, 1554-1568.e8.	5.2	17
11	Controlling Coagulation in Blood with Red Light. <i>Angewandte Chemie</i> , 2021, 133, 22615-22620.	2.0	2
12	Controlling Coagulation in Blood with Red Light. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22441-22446.	13.8	8
13	Changes in Protein Glycosylation as a Result of Aptamer Interactions with Cancer Cells. <i>Proteomics - Clinical Applications</i> , 2020, 14, 1800186.	1.6	3
14	Dynamic changes in DNA populations revealed by splitâ€combine selection. <i>Chemical Science</i> , 2020, 11, 9577-9583.	7.4	7
15	Aptamerâ€Mediated Reversible Transactivation of Gene Expression by Light. <i>Angewandte Chemie</i> , 2020, 132, 22600-22604.	2.0	6
16	Optoribogenetic control of regulatory RNA molecules. <i>Nature Communications</i> , 2020, 11, 4825.	12.8	17
17	Aptamerâ€Mediated Reversible Transactivation of Gene Expression by Light. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22414-22418.	13.8	21
18	Selective Modulation of the Protease Activated Protein C Using Exosite Inhibiting Aptamers. <i>Nucleic Acid Therapeutics</i> , 2020, 30, 276-288.	3.6	8

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19	ADAPT identifies an ESCRT complex composition that discriminates VCaP from LNCaP prostate cancer cell exosomes. <i>Nucleic Acids Research</i> , 2020, 48, 4013-4027.	14.5	15
20	Robotic assisted generation of 2'-deoxy-2'-fluoro-modified RNA aptamers – High performance enabling strategies in aptamer selection. <i>Methods</i> , 2019, 161, 3-9.	3.8	10
21	The mRNA repressor TRIM71 cooperates with Nonsense-Mediated Decay factors to destabilize the mRNA of CDKN1A/p21. <i>Nucleic Acids Research</i> , 2019, 47, 11861-11879.	14.5	22
22	Eine rezeptorgeleitete Designstrategie zur Identifikation von Clickmeren. <i>Angewandte Chemie</i> , 2019, 131, 10864-10868.	2.0	2
23	A blue light receptor that mediates RNA binding and translational regulation. <i>Nature Chemical Biology</i> , 2019, 15, 1085-1092.	8.0	76
24	Copper-Catalyzed Alkyne-Azide Cycloaddition on the Solid Phase for the Preparation of Fully Click-Modified Nucleic Acids. <i>Methods in Molecular Biology</i> , 2019, 1973, 177-183.	0.9	0
25	A Receptor-Guided Design Strategy for Ligand Identification. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10752-10755.	13.8	18
26	Aptamers as Therapeutic Agents: Has the Initial Euphoria Subsided?. <i>Molecular Diagnosis and Therapy</i> , 2019, 23, 301-309.	3.8	37
27	Targeting hormone refractory prostate cancer by in vivo selected DNA libraries in an orthotopic xenograft mouse model. <i>Scientific Reports</i> , 2019, 9, 4976.	3.3	14
28	Translocation of a Cell Surface Spliceosomal Complex Induces Alternative Splicing Events and Lymphoma Cell Necrosis. <i>Cell Chemical Biology</i> , 2019, 26, 756-764.e6.	5.2	5
29	Aptasensor for Quantifying Pancreatic Polypeptide. <i>ACS Omega</i> , 2019, 4, 2948-2956.	3.5	4
30	Poly-ligand profiling differentiates trastuzumab-treated breast cancer patients according to their outcomes. <i>Nature Communications</i> , 2018, 9, 1219.	12.8	20
31	Identification and characterization of nucleobase-modified aptamers by click-SELEX. <i>Nature Protocols</i> , 2018, 13, 1153-1180.	12.0	70
32	Advances in the Study of Aptamer-Protein Target Identification Using the Chromatographic Approach. <i>Journal of Proteome Research</i> , 2018, 17, 2174-2181.	3.7	20
33	Systematic evaluation of cell-SELEX enriched aptamers binding to breast cancer cells. <i>Biochimie</i> , 2018, 145, 53-62.	2.6	46
34	RNA Aptamers Recognizing Murine CCL17 Inhibit T Cell Chemotaxis and Reduce Contact Hypersensitivity In Vivo. <i>Molecular Therapy</i> , 2018, 26, 95-104.	8.2	20
35	Activity Pattern Analysis Indicates Increased but Balanced Systemic Coagulation Activity in Response to Surgical Trauma. <i>TH Open</i> , 2018, 02, e350-e356.	1.4	10
36	Aptamers: novelty tools for cancer biology. <i>Oncotarget</i> , 2018, 9, 26934-26953.	1.8	34

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37	Systematic evaluation of error rates and causes in short samples in next-generation sequencing. <i>Scientific Reports</i> , 2018, 8, 10950.	3.3	224
38	Poly-ligand profiling (PLP) to differentiate pancreatic cancer patients who benefit from gemcitabine+evofosfamide versus gemcitabine+placebo treatment.. <i>Journal of Clinical Oncology</i> , 2018, 36, 12067-12067.	1.6	2
39	Plasma Exosome Profiling of Cancer Patients by a Next Generation Systems Biology Approach. <i>Scientific Reports</i> , 2017, 7, 42741.	3.3	38
40	Aptamers as Valuable Molecular Tools in Neurosciences. <i>Journal of Neuroscience</i> , 2017, 37, 2517-2523.	3.6	32
41	Customised nucleic acid libraries for enhanced aptamer selection and performance. <i>Current Opinion in Biotechnology</i> , 2017, 48, 111-118.	6.6	49
42	Photoâ€Tethers for the (Multiâ€Cyclic, Conformational Caging of Long Oligonucleotides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 359-363.	13.8	34
43	Photoâ€Tethers for the (Multiâ€Cyclic, Conformational Caging of Long Oligonucleotides. <i>Angewandte Chemie</i> , 2017, 129, 365-369.	2.0	18
44	Activation of the <i>glmS</i> Ribozyme Confers Bacterial Growth Inhibition. <i>ChemBioChem</i> , 2017, 18, 435-440.	2.6	24
45	InÂVtro Selection of Cell-Internalizing DNA Aptamers in a Model System of Inflammatory Kidney Disease. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 8, 198-210.	5.1	22
46	Fluoroâ€Carbaâ€Sugars are Glycomimetic Activators of the <i>glmS</i> Ribozyme. <i>Chemistry - A European Journal</i> , 2017, 23, 12604-12612.	3.3	13
47	Reporter Gene-Based Screening for TPP Riboswitch Activators. <i>Methods in Molecular Biology</i> , 2017, 1520, 227-235.	0.9	9
48	Selection and Biosensor Application of Aptamers for Small Molecules. <i>Frontiers in Chemistry</i> , 2016, 4, 25.	3.6	183
49	<i>In Vitro</i> Evaluation of Aptamer-Based Reversible Inhibition of Anticoagulant Activated Protein C as a Novel Supportive Hemostatic Approach. <i>Nucleic Acid Therapeutics</i> , 2016, 26, 355-362.	3.6	17
50	Î²-Conglutin dual aptamers binding distinct aptatopes. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 875-884.	3.7	25
51	Click Reaction on Solid Phase Enables High Fidelity Synthesis of Nucleobase-Modified DNA. <i>Bioconjugate Chemistry</i> , 2016, 27, 500-503.	3.6	19
52	Preparation of SELEX Samples for Next-Generation Sequencing. <i>Methods in Molecular Biology</i> , 2016, 1380, 77-84.	0.9	19
53	Sensitive detection of cancer cells using light-mediated apta-PCR. <i>Methods</i> , 2016, 97, 104-109.	3.8	15
54	Selection of Aptamers for Metabolite Sensing and Construction of Optical Nanosensors. <i>Methods in Molecular Biology</i> , 2016, 1380, 3-19.	0.9	7

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55	Aptamer-Based Enzyme Capture Assay for Measurement of Plasma Thrombin Levels. <i>Methods in Molecular Biology</i> , 2016, 1380, 179-189.	0.9	3
56	Adaptive dynamic artificial poly-ligand targeting (ADAPT) of low-abundance exosome-associated proteins in blood plasma.. <i>Journal of Clinical Oncology</i> , 2016, 34, e23070-e23070.	1.6	0
57	Adaptive dynamic artificial poly-ligand targeting (ADAPT) of the plasma exosome proteome: A highly multiplexed non-invasive diagnostic discovery platform.. <i>Journal of Clinical Oncology</i> , 2016, 34, e23058-e23058.	1.6	0
58	A Versatile Approach Towards Nucleobase-Modified Aptamers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10971-10974.	13.8	129
59	(Dis)similar Analogues of Riboswitch Metabolites as Antibacterial Lead Compounds. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3275-3286.	6.4	29
60	Selective Aptamer-Based Control of Intraneuronal Signaling. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5369-5373.	13.8	9
61	Modular Assembly of Cell-targeting Devices Based on an Uncommon G-quadruplex Aptamer. <i>Molecular Therapy - Nucleic Acids</i> , 2015, 4, e251.	5.1	32
62	Aptasensor platform based on carbon nanofibers enriched screen printed electrodes for impedimetric detection of thrombin. <i>Journal of Electroanalytical Chemistry</i> , 2015, 758, 12-19.	3.8	21
63	Capture and Release (CaR): a simplified procedure for one-tube isolation and concentration of single-stranded DNA during SELEX. <i>Chemical Communications</i> , 2015, 51, 1135-1138.	4.1	8
64	An Aptamer to the MAP Kinase Insert Region. <i>ACS Chemical Biology</i> , 2015, 10, 320-327.	3.4	5
65	Novel TPP-riboswitch activators bypass metabolic enzyme dependency. <i>Frontiers in Chemistry</i> , 2014, 2, 53.	3.6	17
66	Cell-Specific Aptamers for Nano-medical Applications. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 261-283.	0.2	0
67	The promise of riboswitches as potential antibacterial drug targets. <i>International Journal of Medical Microbiology</i> , 2014, 304, 79-92.	3.6	65
68	Multifunctional Nucleic Acids for Tumor Cell Treatment. <i>Nucleic Acid Therapeutics</i> , 2014, 24, 171-177.	3.6	23
69	Aptamers and SELEX in Chemistry & Biology. <i>Chemistry and Biology</i> , 2014, 21, 1055-1058.	6.0	90
70	By-Product Formation in Repetitive PCR Amplification of DNA Libraries during SELEX. <i>PLoS ONE</i> , 2014, 9, e114693.	2.5	73
71	Cyplecksins Are Covalent Inhibitors of the Pleckstrin Homology Domain of Cytohesin. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9529-9533.	13.8	8
72	A Selective Inhibitor of Heme Biosynthesis in Endosymbiotic Bacteria Elicits Antifilarial Activity In Vitro. <i>Chemistry and Biology</i> , 2013, 20, 177-187.	6.0	24

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73	Aptamerâ€Guided Caging for Selective Masking of Protein Domains. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11912-11915.	13.8	18
74	Dressed for success â€ applying chemistry to modulate aptamer functionality. <i>Chemical Science</i> , 2013, 4, 60-67.	7.4	62
75	d(GGGT) <sub>4</sub> and r(GGGU) <sub>4</sub> are both HIV-1 inhibitors and interleukin-6 receptor aptamers. <i>RNA Biology</i> , 2013, 10, 216-227.	3.1	39
76	Interleukin-6 receptor specific RNA aptamers for cargo delivery into target cells. <i>RNA Biology</i> , 2012, 9, 67-80.	3.1	58
77	Molecular Mechanism for Inhibition of G Protein-Coupled Receptor Kinase 2 by a Selective RNA Aptamer. <i>Structure</i> , 2012, 20, 1300-1309.	3.3	51
78	Caged glucosamine-6-phosphate for the light-control of riboswitch activity. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 489-492.	2.9	11
79	Thrombin inhibition profiles in healthy individuals and thrombophilic patients. <i>Thrombosis and Haemostasis</i> , 2012, 107, 848-853.	3.4	36
80	Functional Detection of Proteins by Caged Aptamers. <i>ACS Chemical Biology</i> , 2012, 7, 360-366.	3.4	22
81	Lightâ€Controlled Tools. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8446-8476.	13.8	799
82	Aptamerâ€Based Affinity Labeling of Proteins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9176-9180.	13.8	70
83	Chemical Maturation of a Bivalent Aptamer by Single Domain Variation. <i>ChemBioChem</i> , 2012, 13, 631-634.	2.6	17
84	Label-free impedimetric aptasensor for lysozyme detection based on carbon nanotube-modified screen-printed electrodes. <i>Analytical Biochemistry</i> , 2012, 421, 454-459.	2.4	114
85	Carba-sugars Activate the glmS-Riboswitch of <i>Staphylococcus aureus</i> . <i>ACS Chemical Biology</i> , 2011, 6, 675-678.	3.4	66
86	Repression of the genome organizer SATB1 in regulatory T cells is required for suppressive function and inhibition of effector differentiation. <i>Nature Immunology</i> , 2011, 12, 898-907.	14.5	179
87	Aptamer-based modulation of blood coagulation. <i>Hamostaseologie</i> , 2011, 31, 258-263.	1.9	35
88	Aptamer Modules as Sensors and Detectors. <i>Accounts of Chemical Research</i> , 2011, 44, 1349-1358.	15.6	267
89	RNA diagnostics: realâ€time RTâ€PCR strategies and promising novel target RNAs. <i>Wiley Interdisciplinary Reviews RNA</i> , 2011, 2, 32-41.	6.4	26
90	Profiling of Active Thrombin in Human Blood by Supramolecular Complexes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6075-6078.	13.8	73

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91	Plug and Play with RNA. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12400-12401.	13.8	1
92	ADLOC: An Aptamerâ€Displacement Assay Based on Luminescent Oxygen Channeling. <i>Chemistry - A European Journal</i> , 2010, 16, 11100-11107.	3.3	15
93	An Aptamer Targeting the Apicalâ€Loop Domain Modulates priâ€miRNA Processing. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4674-4677.	13.8	49
94	Evolution of specific RNA motifs derived from pan-protein interacting precursors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3793-3796.	2.2	4
95	Fluorescence-activated cell sorting for aptamer SELEX with cell mixtures. <i>Nature Protocols</i> , 2010, 5, 1993-2004.	12.0	192
96	Dependence of aptamer activity on opposed terminal extensions: improvement of light-regulation efficiency. <i>Nucleic Acids Research</i> , 2010, 38, 2111-2118.	14.5	72
97	Casein Kinase 2 Dependent Phosphorylation of Nephrylsin Regulates Receptor Tyrosine Kinase Signaling to Akt. <i>PLoS ONE</i> , 2010, 5, e13134.	2.5	22
98	The nuclear receptor PPARÎ³ selectively inhibits Th17 differentiation in a T cellâ€intrinsic fashion and suppresses CNS autoimmunity. <i>Journal of Experimental Medicine</i> , 2009, 206, 2079-2089.	8.5	287
99	Differential Regulation of Protein Subdomain Activity with Caged Bivalent Ligands. <i>ChemBioChem</i> , 2009, 10, 654-657.	2.6	40
100	A RNAâ€Based Approach towards Smallâ€Molecule Inhibitors. <i>ChemBioChem</i> , 2009, 10, 1993-1996.	2.6	13
101	Tiny Tags on RNA. <i>ChemBioChem</i> , 2009, 10, 2145-2146.	2.6	0
102	Electrochemical Sensing of Aptamerâ€Protein Interactions Using a Magnetic Particle Assay and Singleâ€Use Sensor Technology. <i>Electroanalysis</i> , 2009, 21, 1278-1284.	2.9	36
103	The Chemical Biology of Aptamers. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2672-2689.	13.8	512
104	An RNA Aptamer that Induces Transcription. <i>Chemistry and Biology</i> , 2009, 16, 173-180.	6.0	48
105	An Exosite-Specific ssDNA Aptamer Inhibits the Anticoagulant Functions of Activated Protein C and Enhances Inhibition by Protein C Inhibitor. <i>Chemistry and Biology</i> , 2009, 16, 442-451.	6.0	54
106	From selection to caged aptamers: Identification of light-dependent ssDNA aptamers targeting cytohesin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6561-6564.	2.2	18
107	Structureâ€activity relationships of a caged thrombin binding DNA aptamer: Insight gained from molecular dynamics simulation studies. <i>Journal of Structural Biology</i> , 2009, 166, 241-250.	2.8	31
108	In Vitro Selection of Conformational Probes for Riboswitches. <i>Methods in Molecular Biology</i> , 2009, 540, 291-300.	0.9	7

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109	In Vitro Selection of ssDNA Aptamers Using Biotinylated Target Proteins. <i>Methods in Molecular Biology</i> , 2009, 535, 19-32.	0.9	16
110	Monitoring the progression of the in vitro selection of nucleic acid aptamers by denaturing high-performance liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1033-1037.	3.7	30
111	Construction of DNA Architectures with RNA Hairpins. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 971-973.	13.8	28
112	Enrichment of Cell-Targeting and Population-Specific Aptamers by Fluorescence-Activated Cell Sorting. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5190-5193.	13.8	160
113	Secondary structures and functional requirements for thiM riboswitches from <i>Desulfovibrio vulgaris</i> , <i>Erwinia carotovora</i> and <i>Rhodobacter sphaeroides</i> . <i>Biological Chemistry</i> , 2008, 389, 127-134.	2.5	15
114	An RNA molecule that specifically inhibits G-protein-coupled receptor kinase 2 in vitro. <i>Rna</i> , 2008, 14, 524-534.	3.5	49
115	Conformational changes in the expression domain of the <i>Escherichia coli</i> thiM riboswitch. <i>Nucleic Acids Research</i> , 2007, 35, 3713-3722.	14.5	67
116	A New Anticoagulant-Antidote Pair: Control of Thrombin Activity by Aptamers and Porphyrins. <i>Journal of the American Chemical Society</i> , 2007, 129, 3036-3037.	13.7	47
117	Functional Aptamers and Aptazymes in Biotechnology, Diagnostics, and Therapy. <i>Chemical Reviews</i> , 2007, 107, 3715-3743.	47.7	820
118	Light-Stimulated Patterning of Cells. <i>ChemBioChem</i> , 2007, 8, 857-858.	2.6	0
119	Multidomain Targeting Generates a High-Affinity Thrombin-Inhibiting Bivalent Aptamer. <i>ChemBioChem</i> , 2007, 8, 2223-2226.	2.6	123
120	RNA Ligands That Distinguish Metabolite-Induced Conformations in the TPP Riboswitch. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 557-560.	13.8	54
121	Aptamer Displacement Identifies Alternative Small-Molecule Target Sites that Escape Viral Resistance. <i>Chemistry and Biology</i> , 2007, 14, 804-812.	6.0	49
122	Aptamers in nanoland. <i>Nature</i> , 2006, 439, 667-669.	27.8	50
123	High-Throughput-Compatible Assay for glmS Riboswitch Metabolite Dependence. <i>ChemBioChem</i> , 2006, 7, 602-604.	2.6	62
124	Biologically Active Molecules with a Light Switch. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4900-4921.	13.8	1,028
125	An Anticoagulant with Light-Triggered Antidote Activity. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6748-6750.	13.8	68
126	Intramers and Aptamers: Applications in Protein-Function Analyses and Potential for Drug Screening. <i>ChemBioChem</i> , 2005, 6, 19-26.	2.6	59



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127	Light-Induced Formation of G-Quadruplex DNA Secondary Structures. <i>ChemBioChem</i> , 2005, 6, 1966-1970.	2.6	68
128	Light Regulation of Aptamer Activity: An Anti-Thrombin Aptamer with Caged Thymidine Nucleobases. <i>Journal of the American Chemical Society</i> , 2005, 127, 822-823.	13.7	167
129	Sensing complex regulatory networks by conformationally controlled hairpin ribozymes. <i>Nucleic Acids Research</i> , 2004, 32, 3212-3219.	14.5	27
130	Aptamers in Research and Drug Development. <i>BioDrugs</i> , 2004, 18, 351-359.	4.6	30
131	Aptamers that bind to the antibiotic moenomycin A. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2557-2563.	3.0	54
132	Intramers as promising new tools in functional proteomics. <i>Chemistry and Biology</i> , 2001, 8, 931-939.	6.0	97
133	Nucleic Acid Aptamers From Selection in Vitro to Applications in Vivo. <i>Accounts of Chemical Research</i> , 2000, 33, 591-599.	15.6	421