

Jörg S Hartig

List of Publications by Year in descending order

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92
papers

4,357
citations

117625

34
h-index

110387

64
g-index

97
all docs

97
docs citations

97
times ranked

3926
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Aptamers and Aptazymes in Biotechnology, Diagnostics, and Therapy. <i>Chemical Reviews</i> , 2007, 107, 3715-3743.	47.7	820
2	A comparison of DNA and RNA quadruplex structures and stabilities. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6811-6815.	3.0	191
3	RNA Quadruplex-Based Modulation of Gene Expression. <i>Chemistry and Biology</i> , 2007, 14, 757-763.	6.0	189
4	Sequence-Specific Detection of MicroRNAs by Signal-Amplifying Ribozymes. <i>Journal of the American Chemical Society</i> , 2004, 126, 722-723.	13.7	169
5	Improved Aptazyme Design and In Vivo Screening Enable Riboswitching in Bacteria. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2604-2607.	13.8	164
6	Protein-dependent ribozymes report molecular interactions in real time. <i>Nature Biotechnology</i> , 2002, 20, 717-722.	17.5	154
7	A ligand-dependent hammerhead ribozyme switch for controlling mammalian gene expression. <i>Molecular BioSystems</i> , 2010, 6, 807.	2.9	129
8	Artificial Ribozyme Switches Containing Natural Riboswitch Aptamer Domains. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2715-2718.	13.8	119
9	Predictable suppression of gene expression by 5' UTR-based RNA quadruplexes. <i>Nucleic Acids Research</i> , 2009, 37, 6811-6817.	14.5	111
10	Artificial riboswitches for gene expression and replication control of DNA and RNA viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E554-62.	7.1	98
11	A general design strategy for protein-responsive riboswitches in mammalian cells. <i>Nature Methods</i> , 2014, 11, 1154-1160.	19.0	90
12	A Matter of Location: Influence of G-Quadruplexes on Escherichia coli Gene Expression. <i>Chemistry and Biology</i> , 2014, 21, 1511-1521.	6.0	78
13	Human Telomeric Quadruplex Conformations Studied by Pulsed EPR. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9728-9730.	13.8	72
14	Artificial Riboswitches: Synthetic mRNA-Based Regulators of Gene Expression. <i>ChemBioChem</i> , 2008, 9, 1873-1878.	2.6	71
15	Rapid identification and characterization of hammerhead-ribozyme inhibitors using fluorescence-based technology. <i>Nature Biotechnology</i> , 2001, 19, 56-61.	17.5	70
16	Ribozyme-Based Aminoglycoside Switches of Gene Expression Engineered by Genetic Selection in <i>S. cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2015, 4, 516-525.	3.8	69
17	Twister ribozymes as highly versatile expression platforms for artificial riboswitches. <i>Nature Communications</i> , 2016, 7, 12834.	12.8	69
18	Comparative Investigation of the Genomic Regions Involved in Antigenic Variation of the TprK Antigen among Treponemal Species, Subspecies, and Strains. <i>Journal of Bacteriology</i> , 2012, 194, 4208-4225.	2.2	66

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19	Widespread bacterial lysine degradation proceeding via glutarate and L-2-hydroxyglutarate. <i>Nature Communications</i> , 2018, 9, 5071.	12.8	65
20	Site-directed spin-labeling of nucleotides and the use of in-cell EPR to determine long-range distances in a biologically relevant environment. <i>Nature Protocols</i> , 2013, 8, 131-147.	12.0	61
21	Synthetic riboswitches for external regulation of genes transferred by replication-deficient and oncolytic adenoviruses. <i>Nucleic Acids Research</i> , 2012, 40, e167-e167.	14.5	58
22	Long-Range Distance Determination in a DNA Model System inside <i>Xenopus laevis</i> Oocytes by In-Cell Spin-Label EPR. <i>ChemBioChem</i> , 2011, 12, 1992-1995.	2.6	57
23	Novel DNA Catalysts Based on G-Quadruplex Recognition. <i>ChemBioChem</i> , 2008, 9, 1061-1064.	2.6	49
24	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
25	Riboswitch-mediated Attenuation of Transgene Cytotoxicity Increases Adeno-associated Virus Vector Yields in HEK-293 Cells. <i>Molecular Therapy</i> , 2015, 23, 1582-1591.	8.2	47
26	Synthesis of All Possible Canonical (3â€²-5â€²-Linked) Cyclic Dinucleotides and Evaluation of Riboswitch Interactions and Immune-Stimulatory Effects. <i>Journal of the American Chemical Society</i> , 2017, 139, 16154-16160.	13.7	43
27	Small-Molecule-Dependent Regulation of Transfer RNA in Bacteria. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7564-7567.	13.8	42
28	Bisquinolinium compounds induce quadruplex-specific transcriptome changes in HeLa S3 cell lines. <i>BMC Research Notes</i> , 2012, 5, 138.	1.4	42
29	Efficient Suppression of Gene Expression by Targeting 5â€²-UTR-Based RNA Quadruplexes with Bisquinolinium Compounds. <i>ChemBioChem</i> , 2011, 12, 1663-1668.	2.6	41
30	Intracellular Conformations of Human Telomeric Quadruplexes Studied by Electron Paramagnetic Resonance Spectroscopy. <i>ChemPhysChem</i> , 2012, 13, 1444-1447.	2.1	38
31	Reporter Ribozymes for Real-Time Analysis of Domain-Specific Interactions in Biomolecules: HIV-1 Reverse Transcriptase and the Primer-Template Complex. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4263-4266.	13.8	36
32	Aptazyme-Mediated Regulation of 16S Ribosomal RNA. <i>Chemistry and Biology</i> , 2010, 17, 236-242.	6.0	36
33	Investigation of mRNA quadruplex formation in <i>Escherichia coli</i> . <i>Nature Protocols</i> , 2009, 4, 1632-1640.	12.0	35
34	Small molecule-triggered assembly of DNA nanoarchitectures. <i>Chemical Communications</i> , 2010, 46, 1866-1868.	4.1	35
35	Ligand-dependent ribozymes. <i>Wiley Interdisciplinary Reviews RNA</i> , 2017, 8, e1395.	6.4	35
36	High-throughput identification of synthetic riboswitches by barcode-free amplicon-sequencing in human cells. <i>Nature Communications</i> , 2020, 11, 714.	12.8	35

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37	Inhibition of Dicing of Guanosine-Rich shRNAs by Quadruplex-Binding Compounds. <i>ChemBioChem</i> , 2008, 9, 2722-2729.	2.6	34
38	Thermozymes. <i>RNA Biology</i> , 2013, 10, 1009-1016.	3.1	34
39	A tetracycline-dependent ribozyme switch allows conditional induction of gene expression in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2019, 10, 491.	12.8	34
40	A Small-Molecule-Responsive Riboswitch Enables Conditional Induction of Viral Vector-Mediated Gene Expression in Mice. <i>ACS Synthetic Biology</i> , 2020, 9, 1292-1305.	3.8	33
41	An engineered small RNA-mediated genetic switch based on a ribozyme expression platform. <i>Nucleic Acids Research</i> , 2013, 41, 5542-5552.	14.5	31
42	4. RNA Quadruplexes. <i>Metal Ions in Life Sciences</i> , 2011, 9, 125-139.	1.0	31
43	Pulsed EPR spectroscopy distance measurements of DNA internally labelled with Gd ³⁺ -DOTA. <i>Chemical Communications</i> , 2015, 51, 13850-13853.	4.1	29
44	Post-transcriptional Boolean computation by combining aptazymes controlling mRNA translation initiation and tRNA activation. <i>Molecular BioSystems</i> , 2012, 8, 2242.	2.9	27
45	Turning Inhibitors into Activators: A Hammerhead Ribozyme Controlled by a Guanine Quadruplex. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5875-5878.	13.8	26
46	Aptamers in RNA-based switches of gene expression. <i>Current Opinion in Biotechnology</i> , 2020, 63, 34-40.	6.6	25
47	Small-Molecule-Triggered Manipulation of DNA Three-Way Junctions. <i>Journal of the American Chemical Society</i> , 2011, 133, 4706-4709.	13.7	24
48	Identification of Novel Quadruplex Ligands from Small Molecule Libraries by FRET-Based High-Throughput Screening. <i>ChemBioChem</i> , 2011, 12, 1422-1426.	2.6	24
49	Conformations of individual quadruplex units studied in the context of extended human telomeric DNA. <i>Chemical Communications</i> , 2012, 48, 8258.	4.1	23
50	A bacterial DNA quadruplex with exceptional K ⁺ selectivity and unique structural polymorphism. <i>Chemical Science</i> , 2014, 5, 2809-2818.	7.4	23
51	Discovery and characterization of a fourth class of guanidine riboswitches. <i>Nucleic Acids Research</i> , 2020, 48, 12889-12899.	14.5	23
52	Reporter assays for studying quadruplex nucleic acids. <i>Methods</i> , 2012, 57, 115-121.	3.8	22
53	Aptamer-Mediated Control of Polyadenylation for Gene Expression Regulation in Mammalian Cells. <i>ACS Synthetic Biology</i> , 2020, 9, 3008-3018.	3.8	22
54	Redesigned tetrads with altered hydrogen bonding patterns enable programming of quadruplex topologies. <i>Chemical Communications</i> , 2008, , 4010.	4.1	21

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55	Expanded hammerhead ribozymes containing addressable three-way junctions. <i>Rna</i> , 2009, 15, 968-976.	3.5	21
56	Discovery of a Ni ²⁺ -dependent guanidine hydrolase in bacteria. <i>Nature</i> , 2022, 603, 515-521.	27.8	20
57	Intrastrand triplex DNA repeats in bacteria: a source of genomic instability. <i>Nucleic Acids Research</i> , 2015, 43, gkv1017.	14.5	18
58	A Theophylline-Responsive Riboswitch Regulates Expression of Nuclear-Encoded Genes. <i>Plant Physiology</i> , 2020, 182, 123-135.	4.8	18
59	Highly motif- and organism-dependent effects of naturally occurring hammerhead ribozyme sequences on gene expression. <i>RNA Biology</i> , 2018, 15, 231-241.	3.1	16
60	Structural characterization of quadruplex DNA with in-cell EPR approaches. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6156-6161.	3.0	15
61	Gâ€¦Quadruplexes Stabilised by 8â€œOxâ€²â€²deoxyguanosine. <i>Chemistry - A European Journal</i> , 2011, 17, 10838-10843.	3.3	14
62	Shape Analysis of DNAâ€“Au Hybrid Particles by Analytical Ultracentrifugation. <i>ACS Nano</i> , 2016, 10, 7418-7427.	14.6	14
63	Neomycin-dependent hammerhead ribozymes for the direct control of gene expression in <i>Saccharomyces cerevisiae</i> . <i>Methods</i> , 2019, 161, 35-40.	3.8	14
64	Widespread bacterial utilization of guanidine as nitrogen source. <i>Molecular Microbiology</i> , 2021, 116, 200-210.	2.5	14
65	Efficient splicing-based RNA regulators for tetracycline-inducible gene expression in human cell culture and <i>C. elegans</i> . <i>Nucleic Acids Research</i> , 2021, 49, e71-e71.	14.5	14
66	A Cu(II)â€“ATP complex efficiently catalyses enantioselective Dielsâ€“Alder reactions. <i>Nature Communications</i> , 2020, 11, 4792.	12.8	13
67	Investigation of a Quadruplex-Forming Repeat Sequence Highly Enriched in <i>Xanthomonas</i> and <i>Nostoc</i> sp.. <i>PLoS ONE</i> , 2015, 10, e0144275.	2.5	12
68	Ribozyme-Based Transfer RNA Switches for Post-transcriptional Control of Amino Acid Identity in Protein Synthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 8222-8226.	13.7	11
69	The 3â€²-untranslated region of mRNAs as a site for ribozyme cleavage-dependent processing and control in bacteria. <i>RNA Biology</i> , 2017, 14, 1522-1533.	3.1	11
70	In Vivo Screening for Aptazyme-Based Bacterial Riboswitches. <i>Methods in Molecular Biology</i> , 2014, 1111, 237-249.	0.9	11
71	Reporter-Ribozyme zur Echtzeit-Analyse domÄnspezifischer Interaktionen in BiomolekÄlen: reverse Transkriptase von HIV-1 und der Primer-Templatkomplex. <i>Angewandte Chemie</i> , 2002, 114, 4440-4444.	2.0	10
72	In Vivo Screening of Ligand-Dependent Hammerhead Ribozymes. <i>Methods in Molecular Biology</i> , 2012, 848, 455-463.	0.9	10

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73	Engineering Aptazyme Switches for Conditional Gene Expression in Mammalian Cells Utilizing an In Vivo Screening Approach. <i>Methods in Molecular Biology</i> , 2015, 1316, 127-140.	0.9	10
74	<i>Pseudomonas canavaninivorans</i> sp. nov., isolated from bean rhizosphere. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2022, 72, .	1.7	10
75	Engineering of Ribozyme-Based Aminoglycoside Switches of Gene Expression by In Vivo Genetic Selection in <i>Saccharomyces cerevisiae</i> . <i>Methods in Enzymology</i> , 2015, 550, 301-320.	1.0	8
76	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedel-Crafts Reactions in Water. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3444-3449.	13.8	8
77	Teaching Bacteria New Tricks With RNA Switches. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7741-7743.	13.8	6
78	Chemical synthesis, purification, and characterization of 3'-5'-linked canonical cyclic dinucleotides (CDNs). <i>Methods in Enzymology</i> , 2019, 625, 41-59.	1.0	6
79	Engineering Aptazyme Switches for Conditional in Mammalian Cells Utilizing an Approach. <i>Methods in Molecular Biology</i> , 2021, 2323, 199-212.	0.9	6
80	Guanidine-II aptamer conformations and ligand binding modes through the lens of molecular simulation. <i>Nucleic Acids Research</i> , 2021, 49, 7954-7965.	14.5	6
81	Interactions between Flavins and Quadruplex Nucleic Acids. <i>ChemBioChem</i> , 2015, 16, 2437-2440.	2.6	4
82	TPP riboswitch characterization in <i>Alishewanella tabrizica</i> and <i>Alishewanella aestuarii</i> and comparison with other TPP riboswitches. <i>Microbiological Research</i> , 2017, 195, 71-80.	5.3	4
83	Screening of Molecular Interactions Using Reporter Hammerhead Ribozymes. <i>Methods in Molecular Biology</i> , 2008, 429, 251-263.	0.9	4
84	Abolishing HIV-1 infectivity using a polypurine tract-specific G-quadruplex-forming oligonucleotide. <i>BMC Infectious Diseases</i> , 2016, 16, 358.	2.9	2
85	The dual aptamer approach: rational design of a high-affinity FAD aptamer. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 447-450.	2.8	2
86	Turning Riboswitches Loose. <i>ChemBioChem</i> , 2010, 11, 640-641.	2.6	1
87	A Group I Intron Riboswitch. <i>Chemistry and Biology</i> , 2010, 17, 920-921.	6.0	1
88	Aptamer-Based Control of Gene Expression Utilizing Endogenous miRNAs. <i>Molecular Therapy</i> , 2018, 26, 1178-1180.	8.2	1
89	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedel-Crafts Reactions in Water. <i>Angewandte Chemie</i> , 2020, 132, 3472-3477.	2.0	1
90	Screening of Genetic Switches Based on the Twister Ribozyme Motif. <i>Methods in Molecular Biology</i> , 2016, 1380, 225-239.	0.9	1

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91	Binding versus Triggering Riboswitches. Chemistry and Biology, 2014, 21, 167.	6.0	0
92	4 RNA Quadruplexes. , 2015, , 125-140.		0