JÃ¶rg 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	Pseudomonas canavaninivorans sp. nov., isolated from bean rhizosphere. International Journal of Systematic and Evolutionary Microbiology, 2022, 72, .	1.7	10
2	Discovery of a Ni2+-dependent guanidine hydrolase in bacteria. Nature, 2022, 603, 515-521.	27.8	20
3	Engineering Aptazyme Switches for Conditional in Mammalian Cells Utilizing an Approach. Methods in Molecular Biology, 2021, 2323, 199-212.	0.9	6
4	Widespread bacterial utilization of guanidine as nitrogen source. Molecular Microbiology, 2021, 116, 200-210.	2.5	14
5	Efficient splicing-based RNA regulators for tetracycline-inducible gene expression in human cell culture and C. elegans. Nucleic Acids Research, 2021, 49, e71-e71.	14.5	14
6	Guanidine-II aptamer conformations and ligand binding modes through the lens of molecular simulation. Nucleic Acids Research, 2021, 49, 7954-7965.	14.5	6
7	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedelâ€“Crafts Reactions in Water. Angewandte Chemie, 2020, 132, 3472-3477.	2.0	1
8	Highly Efficient Cyclic Dinucleotide Based Artificial Metalloribozymes for Enantioselective Friedelâ€“Crafts Reactions in Water. Angewandte Chemie - International Edition, 2020, 59, 3444-3449.	13.8	8
9	Aptamers in RNA-based switches of gene expression. Current Opinion in Biotechnology, 2020, 63, 34-40.	6.6	25
10	Discovery and characterization of a fourth class of guanidine riboswitches. Nucleic Acids Research, 2020, 48, 12889-12899.	14.5	23
11	Aptamer-Mediated Control of Polyadenylation for Gene Expression Regulation in Mammalian Cells. ACS Synthetic Biology, 2020, 9, 3008-3018.	3.8	22
12	A Cu(II)â€“ATP complex efficiently catalyses enantioselective Dielsâ€“Alder reactions. Nature Communications, 2020, 11, 4792.	12.8	13
13	A Small-Molecule-Responsive Riboswitch Enables Conditional Induction of Viral Vector-Mediated Gene Expression in Mice. ACS Synthetic Biology, 2020, 9, 1292-1305.	3.8	33
14	High-throughput identification of synthetic riboswitches by barcode-free amplicon-sequencing in human cells. Nature Communications, 2020, 11, 714.	12.8	35
15	A Theophylline-Responsive Riboswitch Regulates Expression of Nuclear-Encoded Genes. Plant Physiology, 2020, 182, 123-135.	4.8	18
16	A tetracycline-dependent ribozyme switch allows conditional induction of gene expression in Caenorhabditis elegans. Nature Communications, 2019, 10, 491.	12.8	34
17	Chemical synthesis, purification, and characterization of 3â€²-5â€²-linked canonical cyclic dinucleotides (CDNs). Methods in Enzymology, 2019, 625, 41-59.	1.0	6
18	Neomycin-dependent hammerhead ribozymes for the direct control of gene expression in Saccharomyces cerevisiae. Methods, 2019, 161, 35-40.	3.8	14

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19	Aptamer-Based Control of Gene Expression Utilizing Endogenous miRNAs. Molecular Therapy, 2018, 26, 1178-1180.	8.2	1
20	Highly motif- and organism-dependent effects of naturally occurring hammerhead ribozyme sequences on gene expression. RNA Biology, 2018, 15, 231-241.	3.1	16
21	Widespread bacterial lysine degradation proceeding via glutarate and L-2-hydroxyglutarate. Nature Communications, 2018, 9, 5071.	12.8	65
22	Synthesis of All Possible Canonical (3â€²â€“5â€²-Linked) Cyclic Dinucleotides and Evaluation of Riboswitch Interactions and Immune-Stimulatory Effects. Journal of the American Chemical Society, 2017, 139, 16154-16160.	13.7	43
23	TPP riboswitch characterization in Alishewanella tabrizica and Alishewanella aestuarii and comparison with other TPP riboswitches. Microbiological Research, 2017, 195, 71-80.	5.3	4
24	Ligandâ€dependent ribozymes. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1395.	6.4	35
25	The 3â€²-untranslated region of mRNAs as a site for ribozyme cleavage-dependent processing and control in bacteria. RNA Biology, 2017, 14, 1522-1533.	3.1	11
26	Shape Analysis of DNAâ€“Au Hybrid Particles by Analytical Ultracentrifugation. ACS Nano, 2016, 10, 7418-7427.	14.6	14
27	Twister ribozymes as highly versatile expression platforms for artificial riboswitches. Nature Communications, 2016, 7, 12834.	12.8	69
28	Abolishing HIV-1 infectivity using a polypurine tract-specific G-quadruplex-forming oligonucleotide. BMC Infectious Diseases, 2016, 16, 358.	2.9	2
29	The dual aptamer approach: rational design of a high-affinity FAD aptamer. Organic and Biomolecular Chemistry, 2016, 14, 447-450.	2.8	2
30	Screening of Genetic Switches Based on the Twister Ribozyme Motif. Methods in Molecular Biology, 2016, 1380, 225-239.	0.9	1
31	Interactions between Flavins and Quadruplex Nucleic Acids. ChemBioChem, 2015, 16, 2437-2440.	2.6	4
32	Investigation of a Quadruplex-Forming Repeat Sequence Highly Enriched in Xanthomonas and Nostoc sp.. PLoS ONE, 2015, 10, e0144275.	2.5	12
33	Intrastrand triplex DNA repeats in bacteria: a source of genomic instability. Nucleic Acids Research, 2015, 43, gkv1017.	14.5	18
34	Engineering of Ribozyme-Based Aminoglycoside Switches of Gene Expression by In Vivo Genetic Selection in Saccharomyces cerevisiae. Methods in Enzymology, 2015, 550, 301-320.	1.0	8
35	Riboswitch-mediated Attenuation of Transgene Cytotoxicity Increases Adeno-associated Virus Vector Yields in HEK-293 Cells. Molecular Therapy, 2015, 23, 1582-1591.	8.2	47
36	4 RNA Quadruplexes. , 2015, , 125-140.		0

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37	Pulsed EPR spectroscopy distance measurements of DNA internally labelled with Gd³⁺-DOTA. Chemical Communications, 2015, 51, 13850-13853.	4.1	29
38	Ribozyme-Based Aminoglycoside Switches of Gene Expression Engineered by Genetic Selection in S. cerevisiae. ACS Synthetic Biology, 2015, 4, 516-525.	3.8	69
39	Engineering Aptazyme Switches for Conditional Gene Expression in Mammalian Cells Utilizing an In Vivo Screening Approach. Methods in Molecular Biology, 2015, 1316, 127-140.	0.9	10
40	A general design strategy for protein-responsive riboswitches in mammalian cells. Nature Methods, 2014, 11, 1154-1160.	19.0	90
41	Artificial riboswitches for gene expression and replication control of DNA and RNA viruses. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E554-62.	7.1	98
42	A Matter of Location: Influence of G-Quadruplexes on Escherichia coli Gene Expression. Chemistry and Biology, 2014, 21, 1511-1521.	6.0	78
43	A bacterial DNA quadruplex with exceptional K⁺ selectivity and unique structural polymorphism. Chemical Science, 2014, 5, 2809-2818.	7.4	23
44	Binding versus Triggering Riboswitches. Chemistry and Biology, 2014, 21, 167.	6.0	0
45	In Vivo Screening for Aptazyme-Based Bacterial Riboswitches. Methods in Molecular Biology, 2014, 1111, 237-249.	0.9	11
46	Site-directed spin-labeling of nucleotides and the use of in-cell EPR to determine long-range distances in a biologically relevant environment. Nature Protocols, 2013, 8, 131-147.	12.0	61
47	Thermozymes. RNA Biology, 2013, 10, 1009-1016.	3.1	34
48	Ribozyme-Based Transfer RNA Switches for Post-transcriptional Control of Amino Acid Identity in Protein Synthesis. Journal of the American Chemical Society, 2013, 135, 8222-8226.	13.7	11
49	Structural characterization of quadruplex DNA with in-cell EPR approaches. Bioorganic and Medicinal Chemistry, 2013, 21, 6156-6161.	3.0	15
50	An engineered small RNA-mediated genetic switch based on a ribozyme expression platform. Nucleic Acids Research, 2013, 41, 5542-5552.	14.5	31
51	Comparative Investigation of the Genomic Regions Involved in Antigenic Variation of the TprK Antigen among Treponemal Species, Subspecies, and Strains. Journal of Bacteriology, 2012, 194, 4208-4225.	2.2	66
52	Synthetic riboswitches for external regulation of genes transferred by replication-deficient and oncolytic adenoviruses. Nucleic Acids Research, 2012, 40, e167-e167.	14.5	58
53	In Vivo Screening of Ligand-Dependent Hammerhead Ribozymes. Methods in Molecular Biology, 2012, 848, 455-463.	0.9	10
54	Reporter assays for studying quadruplex nucleic acids. Methods, 2012, 57, 115-121.	3.8	22

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55	Bisquinolinium compounds induce quadruplex-specific transcriptome changes in HeLa S3 cell lines. BMC Research Notes, 2012, 5, 138.	1.4	42
56	Conformations of individual quadruplex units studied in the context of extended human telomeric DNA. Chemical Communications, 2012, 48, 8258.	4.1	23
57	Post-transcriptional Boolean computation by combining aptazymes controlling mRNA translation initiation and tRNA activation. Molecular BioSystems, 2012, 8, 2242.	2.9	27
58	Intracellular Conformations of Human Telomeric Quadruplexes Studied by Electron Paramagnetic Resonance Spectroscopy. ChemPhysChem, 2012, 13, 1444-1447.	2.1	38
59	Small-Molecule-Triggered Manipulation of DNA Three-Way Junctions. Journal of the American Chemical Society, 2011, 133, 4706-4709.	13.7	24
60	Gâ€…Quadruplexes Stabilised by 8â€Oxoâ€2â€²â€deoxyguanosine. Chemistry - A European Journal, 2011, 17, 10838-10843.	3.3	14
61	Identification of Novel Quadruplex Ligands from Small Molecule Libraries by FRETâ€Based Highâ€Throughput Screening. ChemBioChem, 2011, 12, 1422-1426.	2.6	24
62	Efficient Suppression of Gene Expression by Targeting 5â€²â€UTRâ€Based RNA Quadruplexes with Bisquinolinium Compounds. ChemBioChem, 2011, 12, 1663-1668.	2.6	41
63	Longâ€Range Distance Determination in a DNA Model System inside Xenopus laevis Oocytes by Inâ€Cell Spinâ€Label EPR. ChemBioChem, 2011, 12, 1992-1995.	2.6	57
64	4. RNA Quadruplexes. Metal Ions in Life Sciences, 2011, 9, 125-139.	1.0	31
65	A ligand-dependent hammerhead ribozyme switch for controlling mammalian gene expression. Molecular BioSystems, 2010, 6, 807.	2.9	129
66	Turning Riboswitches Loose. ChemBioChem, 2010, 11, 640-641.	2.6	1
67	Aptazyme-Mediated Regulation of 16S Ribosomal RNA. Chemistry and Biology, 2010, 17, 236-242.	6.0	36
68	A Group I Intron Riboswitch. Chemistry and Biology, 2010, 17, 920-921.	6.0	1
69	Small molecule-triggered assembly of DNA nanoarchitectures. Chemical Communications, 2010, 46, 1866-1868.	4.1	35
70	Predictable suppression of gene expression by 5â€²-UTR-based RNA quadruplexes. Nucleic Acids Research, 2009, 37, 6811-6817.	14.5	111
71	Expanded hammerhead ribozymes containing addressable three-way junctions. Rna, 2009, 15, 968-976.	3.5	21
72	Artificial Ribozyme Switches Containing Natural Riboswitch Aptamer Domains. Angewandte Chemie - International Edition, 2009, 48, 2715-2718.	13.8	119

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73	Smallâ€Moleculeâ€Dependent Regulation of Transfer RNA in Bacteria. Angewandte Chemie - International Edition, 2009, 48, 7564-7567.	13.8	42
74	Human Telomeric Quadruplex Conformations Studied by Pulsed EPR. Angewandte Chemie - International Edition, 2009, 48, 9728-9730.	13.8	72
75	A comparison of DNA and RNA quadruplex structures and stabilities. Bioorganic and Medicinal Chemistry, 2009, 17, 6811-6815.	3.0	191
76	Investigation of mRNA quadruplex formation in Escherichia coli. Nature Protocols, 2009, 4, 1632-1640.	12.0	35
77	Novel DNA Catalysts Based on Gâ€Quadruplex Recognition. ChemBioChem, 2008, 9, 1061-1064.	2.6	49
78	Artificial Riboswitches: Synthetic mRNAâ€Based Regulators of Gene Expression. ChemBioChem, 2008, 9, 1873-1878.	2.6	71
79	Inhibition of Dicing of Guanosineâ€Rich shRNAs by Quadruplexâ€Binding Compounds. ChemBioChem, 2008, 9, 2722-2729.	2.6	34
80	Improved Aptazyme Design and In Vivo Screening Enable Riboswitching in Bacteria. Angewandte Chemie - International Edition, 2008, 47, 2604-2607.	13.8	164
81	Redesigned tetrads with altered hydrogen bonding patterns enable programming of quadruplex topologies. Chemical Communications, 2008, , 4010.	4.1	21
82	Screening of Molecular Interactions Using Reporter Hammerhead Ribozymes. Methods in Molecular Biology, 2008, 429, 251-263.	0.9	4
83	A New Anticoagulantâ^'Antidote Pair:Â Control of Thrombin Activity by Aptamers and Porphyrins. Journal of the American Chemical Society, 2007, 129, 3036-3037.	13.7	47
84	Functional Aptamers and Aptazymes in Biotechnology, Diagnostics, and Therapy. Chemical Reviews, 2007, 107, 3715-3743.	47.7	820
85	Teaching Bacteria New Tricksâ€"With RNA Switches. Angewandte Chemie - International Edition, 2007, 46, 7741-7743.	13.8	6
86	RNA Quadruplex-Based Modulation of Gene Expression. Chemistry and Biology, 2007, 14, 757-763.	6.0	189
87	Turning Inhibitors into Activators: A Hammerhead Ribozyme Controlled by a Guanine Quadruplex. Angewandte Chemie - International Edition, 2006, 45, 5875-5878.	13.8	26
88	Sequence-Specific Detection of MicroRNAs by Signal-Amplifying Ribozymes. Journal of the American Chemical Society, 2004, 126, 722-723.	13.7	169
89	Reporter-Ribozyme zur Echtzeit-Analyse domÃnenspezifischer Interaktionen in BiomolekÃ¼len: reverse Transkriptase von HIV-1 und der Primer-Templatkomplex. Angewandte Chemie, 2002, 114, 4440-4444.	2.0	10
90	Reporter Ribozymes for Real-Time Analysis of Domain-Specific Interactions in Biomolecules: HIV-1 Reverse Transcriptase and the Primerâ€"Template Complex. Angewandte Chemie - International Edition, 2002, 41, 4263-4266.	13.8	36

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91	Protein-dependent ribozymes report molecular interactions in real time. Nature Biotechnology, 2002, 20, 717-722.	17.5	154
92	Rapid identification and characterization of hammerhead-ribozyme inhibitors using fluorescence-based technology. Nature Biotechnology, 2001, 19, 56-61.	17.5	70