Marcel R Hollenstein

List of Publications by Year
in descending order

65 papers	2,479 citations	24 h-index	49 g-index
77 all docs	77 docs citations	77 times ranked	2049 citing authors

257450
197818

#	Article	IF	Citations
1	A rutheniumâ€“oligonucleotide bioconjugated photosensitizing aptamer for cancer cell specific photodynamic therapy. RSC Chemical Biology, 2022, 3, 85-95.	4.1	14
2	Towards polymerase-mediated synthesis of artificial RNAâ€“DNA metal base pairs. New Journal of Chemistry, 2022, 46, 4871-4876.	2.8	5
3	Chemical Modifications for a Next Generation of Nucleic Acid Aptamers. ChemBioChem, 2022, 23, .	2.6	20
4	Evaluation of 3â€²-phosphate as a transient protecting group for controlled enzymatic synthesis of DNA and XNA oligonucleotides. Communications Chemistry, 2022, 5, .	4.5	15
5	Recent progress in non-native nucleic acid modifications. Chemical Society Reviews, 2021, 50, 5126-5164.	38.1	155
6	Enzymatic construction of metal-mediated nucleic acid base pairs. Metallomics, 2021, 13, .	2.4	12
7	Stealth Fluorescence Labeling for Live Microscopy Imaging of mRNA Delivery. Journal of the American Chemical Society, 2021, 143, 5413-5424.	13.7	27
8	Towards the enzymatic synthesis of phosphorothioate containing LNA oligonucleotides. Bioorganic and Medicinal Chemistry Letters, 2021, 48, 128242.	2.2	15
9	Orthogonal Genetic Systems. ChemBioChem, 2020, 21, 1408-1411.	2.6	25
10	Enzymatic Formation of an Artificial Base Pair Using a Modified Purine Nucleoside Triphosphate. ACS Chemical Biology, 2020, 15, 2872-2884.	3.4	21
11	Enzymatic Construction of Artificial Base Pairs: The Effect of Metal Shielding. ChemBioChem, 2020, 21, 3398-3409.	2.6	10
12	Selfâ€Assembly of DNA and RNA Building Blocks Explored by Nitrogenâ€14 NMR Crystallography: Structure and Dynamics. ChemPhysChem, 2020, 21, 1044-1051.	2.1	7
13	Evolution of abiotic cubane chemistries in a nucleic acid aptamer allows selective recognition of a malaria biomarker. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16790-16798.	7.1	59
14	Enzymatic synthesis of biphenyl-DNA oligonucleotides. Bioorganic and Medicinal Chemistry, 2020, 28, 115487.	3.0	5
15	Ruthenium-initiated polymerization of lactide: a route to remarkable cellular uptake for photodynamic therapy of cancer. Chemical Science, 2020, 11, 2657-2663.	7.4	37
16	Compatibility of 5-ethynyl-2â€²F-ANA UTP with <i>in vitro</i> selection for the generation of base-modified, nuclease resistant aptamers. Organic and Biomolecular Chemistry, 2019, 17, 8083-8087.	2.8	12
17	Nucleic acid enzymes based on functionalized nucleosides. Current Opinion in Chemical Biology, 2019, 52, 93-101.	6.1	43
18	On the Enzymatic Formation of Metal Base Pairs with Thiolated and pKaâ€Perturbed Nucleotides. ChemBioChem, 2019, 20, 3032-3040.	2.6	15

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19	Synthesis and Enzymatic Characterization of Sugar-Modified Nucleoside Triphosphate Analogs. Methods in Molecular Biology, 2019, 1973, 1-13.	0.9	0
20	Chemical methods for the modification of RNA. Methods, 2019, 161, 64-82.	3.8	63
21	Terminal Deoxynucleotidyl Transferase in the Synthesis and Modification of Nucleic Acids. ChemBioChem, 2019, 20, 860-871.	2.6	56
22	Towards the enzymatic formation of artificial metal base pairs with a carboxy-imidazole-modified nucleotide. Journal of Inorganic Biochemistry, 2019, 191, 154-163.	3.5	31
23	Aptamer chemistry. Advanced Drug Delivery Reviews, 2018, 134, 3-21.	13.7	258
24	DNA Synthesis by Primer Exchange Reaction Cascades. ChemBioChem, 2018, 19, 422-424.	2.6	12
25	Incorporation of a minimal nucleotide into DNA. Tetrahedron Letters, 2018, 59, 4241-4244.	1.4	7
26	Shaping Rolling Circle Amplification Products into DNA Nanoparticles by Incorporation of Modified Nucleotides and Their Application to In Vitro and In Vivo Delivery of a Photosensitizer. Molecules, 2018, 23, 1833.	3.8	12
27	Tetrahedral DNAzymes for enhanced intracellular gene-silencing activity. Chemical Communications, 2018, 54, 9410-9413.	4.1	10
28	Applications of Ruthenium Complexes Covalently Linked to Nucleic Acid Derivatives. Molecules, 2018, 23, 1515.	3.8	19
29	New synthetic route to ethynyl-dUTP: A means to avoid formation of acetyl and chloro vinyl base-modified triphosphates that could poison SELEX experiments. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 897-900.	2.2	11
30	Enzymatic Synthesis of 7â€²,5â€²â€Bicycloâ€DNA Oligonucleotides. Chemistry - an Asian Journal, 2017, 12, 1347-1352.	3.3	15
31	On the enzymatic incorporation of an imidazole nucleotide into DNA. Organic and Biomolecular Chemistry, 2017, 15, 4449-4455.	2.8	35
32	Facile immobilization of DNA using an enzymatic his-tag mimic. Chemical Communications, 2017, 53, 13031-13034.	4.1	23
33	Nucleic Acid Aptamers: Emerging Applications in Medical Imaging, Nanotechnology, Neurosciences, and Drug Delivery. International Journal of Molecular Sciences, 2017, 18, 2430.	4.1	71
34	Rolling Circle Amplification with Chemically Modified Nucleoside Triphosphates. Current Protocols in Nucleic Acid Chemistry, 2016, 67, 7.26.1-7.26.15.	0.5	3
35	Generation of Aptamers with an Expanded Chemical Repertoire. Molecules, 2015, 20, 16643-16671.	3.8	93
36	DNA Catalysis: The Chemical Repertoire of DNAzymes. Molecules, 2015, 20, 20777-20804.	3.8	126

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37	Probing the effect of minor groove interactions on the catalytic efficiency of DNAzymes 8â€“17 and 10â€“23. Molecular BioSystems, 2015, 11, 1454-1461.	2.9	17
38	Generation of long, fully modified, and serum-resistant oligonucleotides by rolling circle amplification. Organic and Biomolecular Chemistry, 2015, 13, 9820-9824.	2.8	15
39	A method for selecting modified DNAzymes without the use of modified DNA as a template in PCR. Chemical Communications, 2015, 51, 1360-1362.	4.1	17
40	The synthesis and application of a diazirine-modified uridine analogue for investigating RNAâ€“protein interactions. RSC Advances, 2014, 4, 48228-48235.	3.6	18
41	Synthesis and Biochemical Characterization of Tricyclothymidine Triphosphate (tcâ€TP). ChemBioChem, 2014, 15, 1901-1904.	2.6	12
42	Nucleoside Triphosphates - From Synthesis to Biochemical Characterization. Journal of Visualized Experiments, 2014, , .	0.3	1
43	Modified nucleoside triphosphates in rolling circle amplification. , 2014, , .		0
44	Synthesis and biochemical characterization of tricyclo-dTTP. , 2014, , .		0
45	The 7th Young Faculty Meeting â€“ A Motivated Generation of Group-Leaders in Switzerland Share their Results and their Experience. Chimia, 2014, 68, 573-574.	0.6	0
46	Deoxynucleoside triphosphates bearing histamine, carboxylic acid, and hydroxyl residues â€“ synthesis and biochemical characterization. Organic and Biomolecular Chemistry, 2013, 11, 5162.	2.8	46
47	Toward the Combinatorial Selection of Chemically Modified DNAzyme RNase A Mimics Active Against all-RNA Substrates. ACS Combinatorial Science, 2013, 15, 174-182.	3.8	64
48	Polymerase incorporation of pyrene-nucleoside triphosphates. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4428-4430.	2.2	21
49	Synthesis of Deoxynucleoside Triphosphates that Include Proline, Urea, or Sulfonamide Groups and Their Polymerase Incorporation into DNA. Chemistry - A European Journal, 2012, 18, 13320-13330.	3.3	44
50	Nucleoside Triphosphates â€” Building Blocks for the Modification of Nucleic Acids. Molecules, 2012, 17, 13569-13591.	3.8	143
51	A divalent metal-dependent self-cleaving DNAzyme with a tyrosine side chain. Organic and Biomolecular Chemistry, 2011, 9, 6949.	2.8	23
52	Protein-inspired modified DNAzymes: dramatic effects of shortening side-chain length of 8-imidazolyl modified deoxyadenosines in selecting RNaseA mimicking DNAzymes. Organic and Biomolecular Chemistry, 2011, 9, 2266.	2.8	26
53	Expanding the Catalytic Repertoire of DNAzymes by Modified Nucleosides. Chimia, 2011, 65, 770-775.	0.6	7
54	A self-cleaving DNA enzyme modified with amines, guanidines and imidazoles operates independently of divalent metal cations (M 2+). Nucleic Acids Research, 2009, 37, 1638-1649.	14.5	121

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55	A DNAzyme with Three Proteinâ€Like Functional Groups: Enhancing Catalytic Efficiency of M²⁺â€Independent RNA Cleavage. ChemBioChem, 2009, 10, 1988-1992.	2.6	85
56	A Highly Selective DNAzyme Sensor for Mercuric Ions. Angewandte Chemie - International Edition, 2008, 47, 4346-4350.	13.8	301
57	Cover Picture: A Highly Selective DNAzyme Sensor for Mercuric Ions (Angew. Chem. Int. Ed. 23/2008). Angewandte Chemie - International Edition, 2008, 47, 4239-4239.	13.8	1
58	In vitro selection of a DNAzyme with three modified nucleotides. Nucleic Acids Symposium Series, 2008, 52, 73-74.	0.3	3
59	Fluorinated Olefinic Peptide Nucleic Acid:Â Synthesis and Pairing Properties with Complementary DNA. Journal of Organic Chemistry, 2005, 70, 3205-3217.	3.2	29
60	Synthesis and Incorporation into PNA of Fluorinated Olefinic PNA (F-OPA) Monomers. Organic Letters, 2003, 5, 1987-1990.	4.6	27
61	Fluorinated Peptide Nucleic Acid. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1191-1194.	1.1	1
62	Self-Assembled Triple-Stranded Lanthanide Dimetallic Helicates with a Ditopic Ligand Derived from Bis(benzimidazole)pyridine and Featuring an (4-Isothiocyanatophenyl)ethynyl Substituent. Helvetica Chimica Acta, 2002, 85, 1915.	1.6	14
63	Diborane nitrogen/ammonia plasma chemistry investigated by infrared absorption spectroscopy. Thin Solid Films, 2000, 379, 37-44.	1.8	22
64	Effect of a halogenide substituent on the stability and photophysical properties of lanthanide triple-stranded helicates with ditopic ligands derived from bis(benzimidazolyl)pyridineâ€Šâ€. Dalton Transactions RSC, 2000, , 2031-2043.	2.3	27
65	Enthalpy Probe Diagnostic Study of the Supersonic Induction Plasma Jet. Annals of the New York Academy of Sciences, 1999, 891, 377-381.	3.8	1