

Eric T Kool

List of Publications by Citations

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175
papers

10,739
citations

56
h-index

100
g-index

191
ext. papers

11,949
ext. citations

12.5
avg, IF

6.82
L-index

#	Paper	IF	Citations
175	Structural imprints in vivo decode RNA regulatory mechanisms. <i>Nature</i> , 2015 , 519, 486-90	50.4	454
174	Factors Contributing to Aromatic Stacking in Water: Evaluation in the Context of DNA. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2213-2222	16.4	418
173	Hydrogen bonding, base stacking, and steric effects in dna replication. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2001 , 30, 1-22		400
172	Active site tightness and substrate fit in DNA replication. <i>Annual Review of Biochemistry</i> , 2002 , 71, 191-219	19.1	335
171	Replacing the nucleobases in DNA with designer molecules. <i>Accounts of Chemical Research</i> , 2002 , 35, 936-43	24.3	328
170	Oximes and Hydrazones in Bioconjugation: Mechanism and Catalysis. <i>Chemical Reviews</i> , 2017 , 117, 10358-10376	88.0	309
169	Escherichia coli RNA polymerase activity observed using atomic force microscopy. <i>Biochemistry</i> , 1997 , 36, 461-8	3.2	308
168	RNA SHAPE analysis in living cells. <i>Nature Chemical Biology</i> , 2013 , 9, 18-20	11.7	288
167	DNA-multichromophore systems. <i>Chemical Reviews</i> , 2012 , 112, 4221-45	68.1	263
166	Experimental Measurement of Aromatic Stacking Affinities in the Context of Duplex DNA. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8182-8183	16.4	253
165	Structure and thermodynamics of N6-methyladenosine in RNA: a spring-loaded base modification. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2107-15	16.4	244
164	A specific partner for abasic damage in DNA. <i>Nature</i> , 1999 , 399, 704-8	50.4	233
163	Fluorescent DNA base replacements: Reporters and sensors for biological systems. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 4265-74	3.9	231
162	Naphthalene, Phenanthrene, and Pyrene as DNA Base Analogues: Synthesis, Structure, and Fluorescence in DNA. <i>Journal of the American Chemical Society</i> , 1996 , 118, 7671-7678	16.4	196
161	Selective and Stable DNA Base Pairing without Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6191-6192	16.4	181
160	Fluorescent nucleobases as tools for studying DNA and RNA. <i>Nature Chemistry</i> , 2017 , 9, 1043-1055	17.6	170
159	Water-soluble organocatalysts for hydrazone and oxime formation. <i>Journal of Organic Chemistry</i> , 2013 , 78, 1184-9	4.2	146

158	Nonenzymatic autoligation in direct three-color detection of RNA and DNA point mutations. <i>Nature Biotechnology</i> , 2001 , 19, 148-52	44.5	145
157	The Discovery of Rolling Circle Amplification and Rolling Circle Transcription. <i>Accounts of Chemical Research</i> , 2016 , 49, 2540-2550	24.3	143
156	Efficient nucleic acid detection by templated reductive quencher release. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16021-3	16.4	134
155	Fluorescent DNA-based enzyme sensors. <i>Chemical Society Reviews</i> , 2011 , 40, 5756-70	58.5	129
154	Solution structure of a DNA duplex containing a replicable difluorotoluene-adenine pair. <i>Nature Structural Biology</i> , 1998 , 5, 954-9		124
153	Fast hydrazone reactants: electronic and acid/base effects strongly influence rate at biological pH. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17663-6	16.4	122
152	Chemical and structural effects of base modifications in messenger RNA. <i>Nature</i> , 2017 , 541, 339-346	50.4	118
151	Rolling-Circle RNA Synthesis: Circular Oligonucleotides as Efficient Substrates for T7 RNA Polymerase. <i>Journal of the American Chemical Society</i> , 1995 , 117, 7818-7819	16.4	118
150	Functional hydrogen-bonding map of the minor groove binding tracks of six DNA polymerases. <i>Biochemistry</i> , 2000 , 39, 12979-88	3.2	112
149	Libraries of composite polyfluors built from fluorescent deoxyribosides. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11590-1	16.4	108
148	Polyfluorophores on a DNA backbone: a multicolor set of labels excited at one wavelength. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3923-33	16.4	107
147	Quenched auto-ligating DNAs: multicolor identification of nucleic acids at single nucleotide resolution. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1081-7	16.4	105
146	Amplified microRNA detection by templated chemistry. <i>Nucleic Acids Research</i> , 2012 , 40, e65	20.1	104
145	Structural Effects in the Recognition of DNA by Circular Oligonucleotides. <i>Journal of the American Chemical Society</i> , 1992 , 114, 3523-3527	16.4	101
144	RNA structure maps across mammalian cellular compartments. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 322-330	17.6	99
143	Destabilizing universal linkers for signal amplification in self-ligating probes for RNA. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13980-6	16.4	95
142	Modified DNA analogues that sense light exposure with color changes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12748-9	16.4	89
141	Replication of non-hydrogen bonded bases by DNA polymerases: a mechanism for steric matching. <i>Biopolymers</i> , 1998 , 48, 3-17	2.2	88

140	The difluorotoluene debate--a decade later. <i>Chemical Communications</i> , 2006 , 3665-75	5.8	88
139	Quenching of fluorescent nucleobases by neighboring DNA: the "insulator" concept. <i>ChemBioChem</i> , 2008 , 9, 279-85	3.8	86
138	Importance of ortho proton donors in catalysis of hydrazone formation. <i>Organic Letters</i> , 2013 , 15, 1646-52	6.2	84
137	Fluorescence of size-expanded DNA bases: reporting on DNA sequence and structure with an unnatural genetic set. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3989-99	16.4	82
136	Circular oligonucleotides: new concepts in oligonucleotide design. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1996 , 25, 1-28		81
135	Palm mutants in DNA polymerases alpha and eta alter DNA replication fidelity and translesion activity. <i>Molecular and Cellular Biology</i> , 2004 , 24, 2734-46	4.8	80
134	Requirement of Watson-Crick hydrogen bonding for DNA synthesis by yeast DNA polymerase eta. <i>Molecular and Cellular Biology</i> , 2003 , 23, 5107-12	4.8	78
133	Identification of a selective polymerase enables detection of N(6)-methyladenosine in RNA. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19079-82	16.4	75
132	Structural Optimization of Non-Nucleotide Loop Replacements for Duplex and Triplex DNAs. <i>Journal of the American Chemical Society</i> , 1995 , 117, 5635-5646	16.4	75
131	Oligomeric fluorescent labels for DNA. <i>Bioconjugate Chemistry</i> , 2005 , 16, 528-34	6.3	72
130	New organocatalyst scaffolds with high activity in promoting hydrazone and oxime formation at neutral pH. <i>Organic Letters</i> , 2015 , 17, 274-7	6.2	70
129	High-fidelity in vivo replication of DNA base shape mimics without Watson-Crick hydrogen bonds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4469-73	11.5	68
128	Recognition of DNA, RNA, and Proteins by Circular Oligonucleotides. <i>Accounts of Chemical Research</i> , 1998 , 31, 502-510	24.3	68
127	Direct fluorescence monitoring of DNA base excision repair. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1689-92	16.4	64
126	Evolving a polymerase for hydrophobic base analogues. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14827-37	16.4	64
125	Integrity of duplex structures without hydrogen bonding: DNA with pyrene paired at abasic sites. <i>Nucleic Acids Research</i> , 2002 , 30, 5561-9	20.1	62
124	Pattern-based detection of toxic metals in surface water with DNA polyfluorophores. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5361-5	16.4	61
123	7SK-BAF axis controls pervasive transcription at enhancers. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 231-8	17.6	60

122	Multispectral labeling of antibodies with polyfluorophores on a DNA backbone and application in cellular imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3493-8	11.5	59
121	Oligodeoxyfluorosides: Strong Sequence Dependence of Fluorescence Emission. <i>Tetrahedron</i> , 2007 , 63, 3427-3433	2.4	59
120	Fast alpha nucleophiles: structures that undergo rapid hydrazone/oxime formation at neutral pH. <i>Organic Letters</i> , 2014 , 16, 1454-7	6.2	58
119	Polyfluorophores on a DNA backbone: sensors of small molecules in the vapor phase. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7025-9	16.4	54
118	Large-scale detection of metals with a small set of fluorescent DNA-like chemosensors. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14576-82	16.4	51
117	Probing the requirements for recognition and catalysis in Fpg and MutY with nonpolar adenine isosteres. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16235-42	16.4	49
116	A porphyrin C-nucleoside incorporated into DNA. <i>Organic Letters</i> , 2002 , 4, 4377-80	6.2	49
115	Molecular Recognition by Circular Oligonucleotides. Strong Binding of Single-stranded DNA and RNA. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 1991, 1161-1163		49
114	Comparison of SHAPE reagents for mapping RNA structures inside living cells. <i>Rna</i> , 2017 , 23, 169-174	5.8	48
113	Evidence for a Watson-Crick hydrogen bonding requirement in DNA synthesis by human DNA polymerase kappa. <i>Molecular and Cellular Biology</i> , 2005 , 25, 7137-43	4.8	48
112	Efficient replication bypass of size-expanded DNA base pairs in bacterial cells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4524-7	16.4	47
111	Dynamics of nucleotide incorporation: snapshots revealed by 2-aminopurine fluorescence studies. <i>Biochemistry</i> , 2006 , 45, 2836-44	3.2	45
110	A highly effective nonpolar isostere of deoxyguanosine: synthesis, structure, stacking, and base pairing. <i>Journal of Organic Chemistry</i> , 2002 , 67, 5869-75	4.2	45
109	Significance of nucleobase shape complementarity and hydrogen bonding in the formation and stability of the closed polymerase-DNA complex. <i>Biochemistry</i> , 2001 , 40, 3215-21	3.2	45
108	RNA structural analysis by evolving SHAPE chemistry. <i>Wiley Interdisciplinary Reviews RNA</i> , 2014 , 5, 867-881	10.3	44
107	Polyfluorophore excimers and exciplexes as FRET donors in DNA. <i>Bioconjugate Chemistry</i> , 2009 , 20, 2371-680	16.8	44
106	Exceptionally rapid oxime and hydrazone formation promoted by catalytic amine buffers with low toxicity. <i>Chemical Science</i> , 2018 , 9, 5252-5259	9.4	43
105	Fluorescent DNAs printed on paper: sensing food spoilage and ripening in the vapor phase. <i>Chemical Science</i> , 2012 , 3, 2542	9.4	42

104	Genetically encoded multispectral labeling of proteins with polyfluorophores on a DNA backbone. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6184-91	16.4	42
103	Two successive reactions on a DNA template: a strategy for improving background fluorescence and specificity in nucleic acid detection. <i>Chemistry - A European Journal</i> , 2011 , 17, 2168-75	4.8	42
102	Pyrene nucleotide as a mechanistic probe: evidence for a transient abasic site-like intermediate in the bypass of dipyrimidine photoproducts by T7 DNA polymerase. <i>Biochemistry</i> , 2000 , 39, 14603-10	3.2	42
101	Interaction and solvation energies of nonpolar DNA base analogues and their role in polymerase insertion fidelity. <i>Journal of Biomolecular Structure and Dynamics</i> , 1999 , 16, 1119-34	3.6	42
100	Fluorescence Monitoring of the Oxidative Repair of DNA Alkylation Damage by ALKBH3, a Prostate Cancer Marker. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3647-50	16.4	41
99	The components of xRNA: synthesis and fluorescence of a full genetic set of size-expanded ribonucleosides. <i>Organic Letters</i> , 2011 , 13, 676-9	6.2	38
98	Importance of hydrogen bonding for efficiency and specificity of the human mitochondrial DNA polymerase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 14402-10	5.4	38
97	Enzymatic synthesis of fluorescent oligomers assembled on a DNA backbone. <i>ChemBioChem</i> , 2006 , 7, 669-72	3.8	38
96	Reimagining high-throughput profiling of reactive cysteines for cell-based screening of large electrophile libraries. <i>Nature Biotechnology</i> , 2021 , 39, 630-641	44.5	37
95	RNA Control by Photoreversible Acylation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3491-3495	15.4	36
94	DNA polymerase catalysis in the absence of Watson-Crick hydrogen bonds: analysis by single-turnover kinetics. <i>Biochemistry</i> , 2006 , 45, 890-8	3.2	35
93	Fluorescent xDNA nucleotides as efficient substrates for a template-independent polymerase. <i>Nucleic Acids Research</i> , 2011 , 39, 1586-94	20.1	34
92	Pattern-Based Detection of Anion Pollutants in Water with DNA Polyfluorophores. <i>Chemical Science</i> , 2015 , 6, 2575-2583	9.4	33
91	New, stronger nucleophiles for nucleic acid-templated chemistry: Synthesis and application in fluorescence detection of cellular RNA. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 56-64	3.4	33
90	Organocatalytic removal of formaldehyde adducts from RNA and DNA bases. <i>Nature Chemistry</i> , 2015 , 7, 752-8	17.6	32
89	RNA Cloaking by Reversible Acylation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3059-3063	16.4	32
88	Dark Hydrazone Fluorescence Labeling Agents Enable Imaging of Cellular Aldehydic Load. <i>ACS Chemical Biology</i> , 2016 , 11, 2312-9	4.9	32
87	Surprising repair activities of nonpolar analogs of 8-oxoG expose features of recognition and catalysis by base excision repair glycosylases. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1653-61	16.4	32

86	Tightening the Belt on Polymerases: Evaluating the Physical Constraints on Enzyme Substrate Size. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3654-3657	16.4	32
85	Dissecting chemical interactions governing RNA polymerase II transcriptional fidelity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8231-40	16.4	31
84	Potent and Selective Inhibitors of 8-Oxoguanine DNA Glycosylase. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2105-2114	16.4	30
83	Fluorescence quenchers for hydrazone and oxime orthogonal bioconjugation. <i>Bioconjugate Chemistry</i> , 2012 , 23, 1969-80	6.3	30
82	DNA polyfluorophores as highly diverse chemosensors of toxic gases. <i>Chemical Science</i> , 2011 , 2, 1910	9.4	28
81	Unnatural substrates reveal the importance of 8-oxoguanine for in vivo mismatch repair by MutY. <i>Nature Chemical Biology</i> , 2008 , 4, 51-8	11.7	28
80	Fluorogenic Templated Reaction Cascades for RNA Detection. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5405-5411	16.4	27
79	DNA polyfluorophores for real-time multicolor tracking of dynamic biological systems. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7176-80	16.4	26
78	Hydrolysis of RNA/DNA hybrids containing nonpolar pyrimidine isosteres defines regions essential for HIV type 1 polypurine tract selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 11279-84	11.5	26
77	Strong binding of single-stranded DNA by stem-loop oligonucleotides. <i>Journal of Biomolecular Structure and Dynamics</i> , 1992 , 10, 141-52	3.6	26
76	Luminescent Carbon Dot Mimics Assembled on DNA. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13147-13155	16.4	25
75	Fingerprints of Modified RNA Bases from Deep Sequencing Profiles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17074-17081	16.4	25
74	Differentiating a diverse range of volatile organic compounds with polyfluorophore sensors built on a DNA scaffold. <i>Chemistry - A European Journal</i> , 2011 , 17, 174-83	4.8	25
73	Probing the interaction of archaeal DNA polymerases with deaminated bases using X-ray crystallography and non-hydrogen bonding isosteric base analogues. <i>Biochemistry</i> , 2010 , 49, 5772-81	3.2	24
72	The model student: what chemical model systems can teach us about biology 2007 , 3, 70-3		24
71	Molecular basis of transcriptional fidelity and DNA lesion-induced transcriptional mutagenesis. <i>DNA Repair</i> , 2014 , 19, 71-83	4.3	23
70	Chemical fidelity of an RNA polymerase ribozyme. <i>Chemical Science</i> , 2013 , 4, 2804	9.4	22
69	Monitoring eukaryotic and bacterial UDG repair activity with DNA-multifluorophore sensors. <i>Nucleic Acids Research</i> , 2013 , 41, e127	20.1	22

68	Reversible RNA acylation for control of CRISPR-Cas9 gene editing. <i>Chemical Science</i> , 2019 , 11, 1011-1016	9.4	22
67	Fluorescent Probes of DNA Repair. <i>ACS Chemical Biology</i> , 2018 , 13, 1721-1733	4.9	22
66	Color-Change Photoswitching of an Alkynylpyrene Excimer Dye. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6497-6501	16.4	21
65	Solvent, pH, and Ionic Effects on the Binding of Single-Stranded DNA by Circular Oligodeoxynucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1994 , 4, 965-970	2.9	21
64	The chemistry and applications of RNA 2'OH acylation. <i>Nature Reviews Chemistry</i> , 2020 , 4, 22-37	34.6	21
63	In Vitro Fluorogenic Real-Time Assay of the Repair of Oxidative DNA Damage. <i>ChemBioChem</i> , 2015 , 16, 1637-46	3.8	20
62	Fluorescence Probes for ALKBH2 Allow the Measurement of DNA Alkylation Repair and Drug Resistance Responses. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12896-12900	16.4	18
61	DNA-polyfluorophore Chemosensors for Environmental Remediation: Vapor-phase Identification of Petroleum Products in Contaminated Soil. <i>Chemical Science</i> , 2013 , 4, 3184-3190	9.4	18
60	Site-directed mutagenesis in the fingers subdomain of HIV-1 reverse transcriptase reveals a specific role for the beta3-beta4 hairpin loop in dNTP selection. <i>Journal of Molecular Biology</i> , 2007 , 365, 38-49	6.5	18
59	Yeast pol eta holds a cis-syn thymine dimer loosely in the active site during elongation opposite the 3RT of the dimer, but tightly opposite the 5RT. <i>Biochemistry</i> , 2003 , 42, 9431-7	3.2	18
58	Kinetic selection vs. free energy of DNA base pairing in control of polymerase fidelity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2277-85	11.5	18
57	Fluorogenic Real-Time Reporters of DNA Repair by MGMT, a Clinical Predictor of Antitumor Drug Response. <i>PLoS ONE</i> , 2016 , 11, e0152684	3.7	17
56	DNA-Erkennung durch makrocyclische Oligoether-Oligodesoxynucleotid-Hybridverbindungen. <i>Angewandte Chemie</i> , 1992 , 104, 1686-1689	3.6	16
55	DNA as an environmental sensor: detection and identification of pesticide contaminants in water with fluorescent nucleobases. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 1801-1809	3.9	15
54	Light-Up "Channel Dyes" for Haloalkane-Based Protein Labeling in Vitro and in Bacterial Cells. <i>Bioconjugate Chemistry</i> , 2016 , 27, 2839-2843	6.3	15
53	Base pair hydrogen bonds are essential for proofreading selectivity by the human mitochondrial DNA polymerase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 14411-6	5.4	14
52	Dissecting the chemical interactions and substrate structural signatures governing RNA polymerase II trigger loop closure by synthetic nucleic acid analogues. <i>Nucleic Acids Research</i> , 2014 , 42, 5863-70	20.1	13
51	DNA polymerase β specializes in incorporating synthetic expanded-size (xDNA) nucleotides. <i>Nucleic Acids Research</i> , 2016 , 44, 9381-9392	20.1	13

50	Aldehyde dehydrogenase 3A1 activation prevents radiation-induced xerostomia by protecting salivary stem cells from toxic aldehydes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6279-6284	11.5	13
49	Simple alkanoyl acylating agents for reversible RNA functionalization and control. <i>Chemical Communications</i> , 2019 , 55, 5135-5138	5.8	12
48	ATP-Releasing Nucleotides: Linking DNA Synthesis to Luciferase Signaling. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2087-91	16.4	12
47	A Chimeric ATP-Linked Nucleotide Enables Luminescence Signaling of Damage Surveillance by MTH1, a Cancer Target. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9005-8	16.4	11
46	Selective fluorogenic chemosensors for distinct classes of nucleases. <i>ChemBioChem</i> , 2013 , 14, 440-4	3.8	11
45	Visualization of long human telomere mimics by single-molecule fluorescence imaging. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13184-7	3.4	11
44	Polymerase-amplified release of ATP (POLARA) for detecting single nucleotide variants in RNA and DNA. <i>Chemical Science</i> , 2019 , 10, 3264-3270	9.4	10
43	Polyfluorophores on a DNA Backbone: Sensors of Small Molecules in the Vapor Phase. <i>Angewandte Chemie</i> , 2010 , 122, 7179-7183	3.6	10
42	Efficient synthesis of fluorescent alkynyl C-nucleosides via Sonogashira coupling for the preparation of DNA-based polyfluorophores. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 6407-12	3.9	9
41	Increased MTH1-specific 8-oxodGTPase activity is a hallmark of cancer in colon, lung and pancreatic tissue. <i>DNA Repair</i> , 2019 , 83, 102644	4.3	9
40	Dual Inhibitors of 8-Oxoguanine Surveillance by OGG1 and NUDT1. <i>ACS Chemical Biology</i> , 2019 , 14, 2606-2615	4.9	9
39	New designs for DNA bases: expanded DNAs and oligofluorosides. <i>Nucleic Acids Symposium Series</i> , 2006 , 15-6		9
38	Nonpolar nucleobase analogs illuminate requirements for site-specific DNA cleavage by vaccinia topoisomerase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 35914-21	5.4	9
37	Small Substrate or Large? Debate Over the Mechanism of Glycation Adduct Repair by DJ-1. <i>Cell Chemical Biology</i> , 2020 , 27, 1117-1123	8.2	9
36	Site-Selective RNA Functionalization via DNA-Induced Structure. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16357-16363	16.4	9
35	Ultrafast Oxime Formation Enables Efficient Fluorescence Light-up Measurement of DNA Base Excision. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19379-19388	16.4	9
34	Fluorescent reporter assays provide direct, accurate, quantitative measurements of MGMT status in human cells. <i>PLoS ONE</i> , 2019 , 14, e0208341	3.7	8
33	Polyacetate and Polycarbonate RNA: Acylating Reagents and Properties. <i>Organic Letters</i> , 2019 , 21, 5413-5416	4.16	8

32	Epigenetics: A new methyl mark on messengers. <i>Nature</i> , 2016 , 530, 423-4	50.4	7
31	Fluorescence Probes for ALKBH2 Allow the Measurement of DNA Alkylation Repair and Drug Resistance Responses. <i>Angewandte Chemie</i> , 2018 , 130, 13078-13082	3.6	7
30	Pattern-Based Detection of Toxic Metals in Surface Water with DNA Polyfluorophores. <i>Angewandte Chemie</i> , 2014 , 126, 5465-5469	3.6	7
29	Chemical and enzymatic methods for preparing circular single-stranded DNAs. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2001 , Chapter 5, Unit 5.2	0.5	7
28	A fluorescent hydrazone exchange probe of pyridoxal phosphate for the assessment of vitamin B6 status. <i>Chemical Communications</i> , 2019 , 56, 317-320	5.8	7
27	Polymerase synthesis of four-base DNA from two stable dimeric nucleotides. <i>Nucleic Acids Research</i> , 2019 , 47, 9495-9501	20.1	6
26	RNA Cloaking by Reversible Acylation. <i>Angewandte Chemie</i> , 2018 , 130, 3113-3117	3.6	6
25	Small-Molecule Inhibitor of 8-Oxoguanine DNA Glycosylase 1 Regulates Inflammatory Responses during Infection. <i>Journal of Immunology</i> , 2020 , 205, 2231-2242	5.3	6
24	Color-Change Photoswitching of an Alkynylpyrene Excimer Dye. <i>Angewandte Chemie</i> , 2017 , 129, 6597-6601	6.9	5
23	Measuring deaminated nucleotide surveillance enzyme ITPA activity with an ATP-releasing nucleotide chimera. <i>Nucleic Acids Research</i> , 2017 , 45, 11515-11524	20.1	5
22	Chapter 1: Designer bases, base pairs, and genetic sets: biochemical and biological activity 2014 , 1-30		5
21	Stabile DNA-Schleifen durch Einbau unpolarer und keine Wasserstoffbrücken bildender Nucleosid-Isostere. <i>Angewandte Chemie</i> , 1996 , 108, 834-837	3.6	5
20	Trapping Transient RNA Complexes by Chemically Reversible Acylation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22017-22022	16.4	5
19	Functional interplay between NTP leaving group and base pair recognition during RNA polymerase II nucleotide incorporation revealed by methylene substitution. <i>Nucleic Acids Research</i> , 2016 , 44, 3820-8	20.1	4
18	DNA Polyfluorophores for Real-Time Multicolor Tracking of Dynamic Biological Systems. <i>Angewandte Chemie</i> , 2012 , 124, 7288-7292	3.6	4
17	Starke, spezifische Bindung sechs verschiedener DNA-Sequenzen an einen konformativ flexiblen DNA-Makrocyclus. <i>Angewandte Chemie</i> , 1994 , 106, 1057-1059	3.6	4
16	Water-Soluble Leaving Group Enables Hydrophobic Functionalization of RNA. <i>Organic Letters</i> , 2018 , 20, 6587-6590	6.2	4
15	Modified DNA Bases: Probing Base-Pair Recognition by Polymerases	49-74	3

14	Topological modification of oligonucleotides for potential inhibition of gene expression. <i>Journal of Computer - Aided Molecular Design</i> , 1996 , 4, 61-75		3
13	The Existence of MTH1-independent 8-oxodGTPase Activity in Cancer Cells as a Compensatory Mechanism against On-target Effects of MTH1 Inhibitors. <i>Molecular Cancer Therapeutics</i> , 2020 , 19, 432-446	6.1	3
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