Hans-Achim Wagenknecht

List of Publications by Year
in descending order

168 papers	5,110 citations	71102 41 h-index	123424 61 g-index
189 all docs	189 docs citations	189 times ranked	3655 citing authors

#	Article	IF	Citations
1	DNA as a supramolecular framework for the helical arrangements of chromophores: towards photoactive DNA-based nanomaterials. Chemical Communications, 2009, , 2615.	4.1	141
2	Reductive Electron Transfer and Transport of Excess Electrons in DNA. Angewandte Chemie - International Edition, 2003, 42, 2454-2460.	13.8	138
3	Structure-Sensitive and Self-Assembled Helical Pyrene Array Based on DNA Architecture. Angewandte Chemie - International Edition, 2006, 45, 3372-3375.	13.8	133
4	Electron transfer processes in DNA: mechanisms, biological relevance and applications in DNA analytics. Natural Product Reports, 2006, 23, 973.	10.3	125
5	One-Dimensional Multichromophor Arrays Based on DNA: From Self-Assembly to Light-Harvesting. Accounts of Chemical Research, 2015, 48, 2724-2733.	15.6	124
6	Perylene Bisimide Dimers as Fluorescent â€œGlueâ€•for DNA and for Baseâ€Mismatch Detection. Angewandte Chemie - International Edition, 2008, 47, 2612-2614.	13.8	119
7	Real-Time Spectroscopic and Chemical Probing of Reductive Electron Transfer in DNA. Angewandte Chemie - International Edition, 2005, 44, 1636-1639.	13.8	96
8	Reductive Electron Transfer in Phenothiazine-Modified DNA Is Dependent on the Base Sequence. Chemistry - A European Journal, 2005, 11, 1871-1876.	3.3	96
9	Comparison of a Nucleosidic vs Non-Nucleosidic Postsynthetic â€œClickâ€•Modification of DNA with Base-Labile Fluorescent Probes. Bioconjugate Chemistry, 2009, 20, 558-564.	3.6	94
10	Perylene-3,4:9,10-tetracarboxylic Acid Bisimide Dye as an Artificial DNA Base Surrogate. Organic Letters, 2006, 8, 4191-4194.	4.6	93
11	Fluorescent Color Readout of DNA Hybridization with Thiazole Orange as an Artificial DNA Base. Angewandte Chemie - International Edition, 2009, 48, 2418-2421.	13.8	87
12	Photochemical Design of Functional Fluorescent Single-Chain Nanoparticles. ACS Macro Letters, 2014, 3, 574-579.	4.8	87
13	Fluorescent Hydrophobic Zippers inside Duplex DNA: Interstrand Stacking of Peryleneâ€3,4:9,10â€tetracarboxylic Acid Bisimides as Artificial DNA Base Dyes. Chemistry - A European Journal, 2008, 14, 6640-6645.	3.3	83
14	â€œDNA Origami Traffic Lightsâ€•with a Split Aptamer Sensor for a Bicolor Fluorescence Readout. Nano Letters, 2017, 17, 2467-2472.	9.1	81
15	Base pair motions control the rates and distance dependencies of reductive and oxidative DNA charge transfer. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10192-10195.	7.1	72
16	Synthesis of 5â€(2â€Pyrenyl)â€2â€²â€deoxyuridine as a DNA Modification for Electronâ€Transfer Studies: The Critical Role of the Position of the Chromophore Attachment. European Journal of Organic Chemistry, 2008, 2008, 64-71.	2.4	72
17	Pyrene as a fluorescent probe for DNA base radicals. Chemical Communications, 2003, , 1878.	4.1	71
18	Development of a Metalâ€Ionâ€Mediated Base Pair for Electron Transfer in DNA. Chemistry - A European Journal, 2013, 19, 12547-12552.	3.3	70

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19	Ultrafast Proton-Coupled Electron-Transfer Dynamics in Pyrene-Modified Pyrimidine Nucleosides: Model Studies towards an Understanding of Reductive Electron Transport in DNA. ChemPhysChem, 2004, 5, 706-712.	2.1	69
20	Inâ€Stemâ€Labeled Molecular Beacons for Distinct Fluorescent Color Readout. Angewandte Chemie - International Edition, 2011, 50, 7268-7272.	13.8	68
21	Photoredox Catalytic Î±â€Alkoxypentafluorosulfanylation of Î±â€Methylâ€and Î±â€Phenylstyrene Using SF₆. Angewandte Chemie - International Edition, 2020, 59, 300-303.	13.8	68
22	Synthesis of DNA with Phenanthridinium as an Artificial DNA Base. Journal of Organic Chemistry, 2004, 69, 744-751.	3.2	67
23	Photoredox Catalytic Activation of Sulfur Hexafluoride for Pentafluorosulfanylation of Î±â€Methylâ€and Î±â€Phenyl Styrene. ChemCatChem, 2018, 10, 2955-2961.	3.7	66
24	1-Ethynylpyrene as a Tunable and Versatile Molecular Beacon for DNA. ChemBioChem, 2004, 5, 865-868.	2.6	65
25	Copperâ€Free Postsynthetic Labeling of Nucleic Acids by Means of Bioorthogonal Reactions. ChemBioChem, 2015, 16, 1541-1553.	2.6	65
26	Thiazole Orange and Cy3: Improvement of Fluorescent DNA Probes with Use of Short Range Electron Transfer. Journal of Organic Chemistry, 2008, 73, 4263-4266.	3.2	64
27	Preparation of 1-Ethynylpyrene-Modified DNA via Sonogashira-Type Solid-Phase Couplings and Characterization of the Fluorescence Properties for Electron-Transfer Studies. European Journal of Organic Chemistry, 2003, 2003, 2498-2504.	2.4	62
28	DNA as a supramolecular scaffold for the helical arrangement of a stack of 1-ethynylpyrene chromophores. Organic and Biomolecular Chemistry, 2006, 4, 2088.	2.8	58
29	â€œPhotoclickâ€Postsynthetic Modification of DNA. Angewandte Chemie - International Edition, 2014, 53, 14580-14582.	13.8	56
30	Metal-Mediated DNA Base Pairing and Metal Arrays in Artificial DNA: Towards New Nanodevices. Angewandte Chemie - International Edition, 2003, 42, 3204-3206.	13.8	53
31	Whiteâ€Lightâ€Emitting DNA (WED). Chemistry - A European Journal, 2009, 15, 9307-9310.	3.3	51
32	1-Ethynylpyrene-modified guanine and cytosine as optical labels for DNA hybridization. Organic and Biomolecular Chemistry, 2005, 3, 2062.	2.8	50
33	Synthesis of 4-Aminophthalimide and 2,4-Diaminopyrimidine C-Nucleosides as Isosteric Fluorescent DNA Base Substitutes. Journal of Organic Chemistry, 2013, 78, 2589-2599.	3.2	49
34	Fluorescent DNA Base Modifications and Substitutes: Multiple Fluorophore Labeling and the DETEQ Concept. Annals of the New York Academy of Sciences, 2008, 1130, 122-130.	3.8	48
35	Synthesis and evaluation of cyanineâ€“styryl dyes with enhanced photostability for fluorescent DNA staining. Organic and Biomolecular Chemistry, 2013, 11, 7458.	2.8	48
36	N-Arylphenothiazines as strong donors for photoredox catalysis â€“ pushing the frontiers of nucleophilic addition of alcohols to alkenes. Beilstein Journal of Organic Chemistry, 2019, 15, 52-59.	2.2	48

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37	Helical Arrangement of Porphyrins along DNA: Towards Photoactive DNAâ€Based Nanoarchitectures. Angewandte Chemie - International Edition, 2009, 48, 2838-2841.	13.8	47
38	Phenanthridinium as an Artificial Base and Charge Donor in DNA. Angewandte Chemie - International Edition, 2004, 43, 1845-1847.	13.8	46
39	Nonâ€covalent Versus Covalent Control of Selfâ€Assembly and Chirality of Nile Redâ€modified Nucleoside and DNA. Chemistry - A European Journal, 2010, 16, 9040-9046.	3.3	43
40	Labelling of DNA and RNA in the cellular environment by means of bioorthogonal cycloaddition chemistry. RSC Chemical Biology, 2020, 1, 86-97.	4.1	43
41	DNA and RNA â€œTraffic Lightsâ€• Synthetic Wavelength-Shifting Fluorescent Probes Based on Nucleic Acid Base Substitutes for Molecular Imaging. Journal of Organic Chemistry, 2013, 78, 7373-7379.	3.2	42
42	Copper-free dual labeling of DNA by triazines and cyclopropenes as minimal orthogonal and bioorthogonal functions. Chemical Science, 2019, 10, 4032-4037.	7.4	42
43	Diarylethene-modified nucleotides for switching optical properties in DNA. Beilstein Journal of Organic Chemistry, 2012, 8, 905-914.	2.2	41
44	Real-time observation of hydrogen bond-assisted electron transfer to a DNA base. Chemical Physics Letters, 2005, 409, 277-280.	2.6	40
45	Synthesis and Optical Properties of Cyanine Dyes as Fluorescent DNA Base Substitutions for Live Cell Imaging. European Journal of Organic Chemistry, 2010, 2010, 1239-1248.	2.4	40
46	Postsynthetic Modifications of DNA and RNA by Means of Copper-Free Cycloadditions as Bioorthogonal Reactions. Bioconjugate Chemistry, 2020, 31, 990-1011.	3.6	40
47	Optical, Redox, and DNAâ€Binding Properties of Phenanthridinium Chromophores: Elucidating the Role of the Phenyl Substituent for Fluorescence Enhancement of Ethidium in the Presence of DNA. Chemistry - A European Journal, 2010, 16, 3392-3402.	3.3	38
48	4,4-Difluoro-4-bora-3a,4a-diaza-s-indacene as a Bright Fluorescent Label for DNA. Journal of Organic Chemistry, 2011, 76, 2301-2304.	3.2	38
49	A â€œClickableâ€•Styryl Dye for Fluorescent DNA Labeling by Excitonic and Energy Transfer Interactions. Chemistry - A European Journal, 2012, 18, 1299-1302.	3.3	36
50	Photocatalytic nucleophilic addition of alcohols to styrenes in Markovnikov and anti-Markovnikov orientation. Beilstein Journal of Organic Chemistry, 2015, 11, 568-575.	2.2	36
51	Scope and Limitations of Typical Copper-Free Bioorthogonal Reactions with DNA: Reactive 2â€²-Deoxyuridine Triphosphates for Postsynthetic Labeling. Journal of Organic Chemistry, 2016, 81, 7527-7538.	3.2	36
52	Exciton and Excimer Formation in DNA at Room Temperature. ChemPhysChem, 2002, 3, 704.	2.1	33
53	In situ azide formation and â€œclickâ€•reaction of nile red with DNA as an alternative postsynthetic route. Chemical Communications, 2010, 46, 2230.	4.1	33
54	DNA-templated formation of fluorescent self-assembly of ethynyl pyrenes. Chemical Communications, 2013, 49, 9257.	4.1	33

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55	A DNAâ€“Fullerene Conjugate as a Template for Supramolecular Chromophore Assemblies: Towards DNAâ€Based Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 1904-1908.	13.8	33
56	Photoredoxkatalytische Î±â€Alkoxypentafluorosulfanylierung von Î±â€Methylâ€•und Î±â€Phenylstyrol mithilfe von SF 6. Angewandte Chemie, 2020, 132, 306-310.	2.0	33
57	Helical self-assembled chromophore clusters based on DNA-like architecture. Tetrahedron, 2007, 63, 3434-3439.	1.9	32
58	A new structureâ€“activity relationship for cyanine dyes to improve photostability and fluorescence properties for live cell imaging. Chemical Science, 2018, 9, 6557-6563.	7.4	32
59	RNA â€œTraffic Lightsâ€• An Analytical Tool to Monitor siRNA Integrity. ACS Chemical Biology, 2013, 8, 890-894.	3.4	31
60	Mixed non-covalent assemblies of ethynyl nile red and ethynyl pyrene along oligonucleotide templates. Organic and Biomolecular Chemistry, 2015, 13, 487-492.	2.8	30
61	Strand displacement and duplex invasion into double-stranded DNA by pyrrolidinyl peptide nucleic acids. Organic and Biomolecular Chemistry, 2015, 13, 9223-9230.	2.8	29
62	5â€(Pyrenâ€1â€yl)uracil as a Baseâ€Discriminating Fluorescent Nucleobase in Pyrrolidinyl Peptide Nucleic Acids. Chemistry - an Asian Journal, 2011, 6, 3251-3259.	3.3	28
63	Reduktiver Elektronentransfer und Transport von Ãœberschusselektronen in DNA. Angewandte Chemie, 2003, 115, 2558-2565.	2.0	27
64	Assembly of DNA Triangles Mediated by Perylene Bisimide Caps. Chemistry - A European Journal, 2011, 17, 6683-6688.	3.3	27
65	Bright and photostable cyanine-styryl chromophores with green and red fluorescence colour for DNA staining. Methods and Applications in Fluorescence, 2015, 3, 044003.	2.3	25
66	Polarity Sensitive Bioorthogonally Applicable Far-Red Emitting Labels for Postsynthetic Nucleic Acid Labeling by Copper-Catalyzed and Copper-Free Cycloaddition. Bioconjugate Chemistry, 2016, 27, 457-464.	3.6	25
67	Redâ€“whiteâ€“blue emission switching molecular beacons: ratiometric multicolour DNA hybridization probes. Organic and Biomolecular Chemistry, 2010, 8, 526-528.	2.8	24
68	1,2,4â€Triazineâ€Modified 2â€²â€Deoxyuridine Triphosphate for Efficient Bioorthogonal Fluorescent Labeling of DNA. ChemBioChem, 2017, 18, 1473-1476.	2.6	24
69	Photoredox Catalytic Pentafluorosulfanylative Domino Cyclization of Î±â€Substituted Alkenes to Oxaheterocycles by Using SF₆. Chemistry - A European Journal, 2021, 27, 8088-8093.	3.3	24
70	Phenothiazine as a redox-active DNA base substitute: comparison with phenothiazine-modified uridine. Organic and Biomolecular Chemistry, 2008, 6, 48-50.	2.8	23
71	Indole in DNA: Comparison of a Nucleosidic with a Nonâ€Nucleosidic DNA Base Substitution. European Journal of Organic Chemistry, 2009, 2009, 364-370.	2.4	23
72	Molecular movement in the Arabidopsis thaliana female gametophyte. Plant Reproduction, 2017, 30, 141-146.	2.2	23

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73	Imaging of RNA delivery to cells by thiazole orange as a fluorescent RNA base substitution. Organic and Biomolecular Chemistry, 2010, 8, 997.	2.8	22
74	2â€²-Deoxyuridine conjugated with a reactive monobenzocyclooctyne as a DNA building block for copper-free click-type postsynthetic modification of DNA. Chemical Communications, 2014, 50, 11218.	4.1	22
75	Bifunctional DNA Architectonics: Threeâ€Way Junctions with Sticky Perylene Bisimide Caps and a Central Metal Lock. Chemistry - A European Journal, 2014, 20, 12009-12014.	3.3	22
76	Elucidation of the Dexterâ€Type Energy Transfer in DNA by Thymineâ€“Thymine Dimer Formation Using Photosensitizers as Artificial Nucleosides. Angewandte Chemie - International Edition, 2017, 56, 1385-1389.	13.8	22
77	Fluorogenic â€œphotoclickâ€labelling of DNA using a Cy3 dye. Organic and Biomolecular Chemistry, 2018, 16, 7579-7582.	2.8	22
78	Organic Chemistry of DNA Functionalization; Chromophores as DNA Base Substitutes versus DNA Base/2â€²-Modifications. Synlett, 2012, 23, 2435-2448.	1.8	21
79	Photoinduced Reductive Electron Transfer in LNA:DNA Hybrids: A Compromise between Conformation and Base Stacking. Angewandte Chemie - International Edition, 2012, 51, 10026-10029.	13.8	21
80	â€œDNA Traffic Lightsâ€: Concept of Wavelengthâ€Shifting DNA Probes and Application in an Aptasensor. ChemBioChem, 2012, 13, 1136-1138.	2.6	21
81	DNA â€œNanolampsâ€: â€œClickedâ€DNA Conjugates with Photon Upconverting Nanoparticles as Highly Emissive Biomaterial. ChemPlusChem, 2012, 77, 129-134.	2.8	21
82	Synthesis of 2â€²-O-Propargyl Nucleoside Triphosphates for Enzymatic Oligonucleotide Preparation and â€œClickâ€Modification of DNA with Nile Red as Fluorescent Probe. Bioconjugate Chemistry, 2013, 24, 301-304.	3.6	21
83	DNAâ€Based Oligochromophores as Lightâ€Harvesting Systems. Chemistry - A European Journal, 2015, 21, 9349-9354.	3.3	21
84	Thiazole Orange Dimers in DNA: Fluorescent Base Substitutions with Hybridization Readout. Chemistry - A European Journal, 2016, 22, 2386-2395.	3.3	21
85	New Farâ€red and Nearâ€infrared Fluorescent Probes with Large Stokes Shifts for Dual Covalent Labeling of DNA. Chemistry - an Asian Journal, 2010, 5, 1761-1764.	3.3	20
86	Photoinduced short-range electron transfer in DNA with fluorescent DNA bases: lessons from ethidium and thiazole orange as charge donors. Physical Chemistry Chemical Physics, 2010, 12, 32-43.	2.8	20
87	Synthesis of DNA with Green Perylene Bisimides as DNA Base Substitutions. European Journal of Organic Chemistry, 2011, 2011, 4564-4570.	2.4	20
88	Synthesis of a Photostable Energyâ€Transfer Pair for â€œDNA Traffic Lightsâ€: European Journal of Organic Chemistry, 2014, 2014, 7547-7551.	2.4	20
89	Synthesis of Benzophenone Nucleosides and Their Photocatalytic Evaluation for [2+2] Cycloaddition in Aqueous Media. European Journal of Organic Chemistry, 2015, 2015, 6661-6668.	2.4	20
90	Nucleotide insertion and bypass synthesis of pyrene- and BODIPY-modified oligonucleotides by DNA polymerases. Chemical Communications, 2008, , 1443.	4.1	18

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91	DNA Primer Extension with Cyclopropenylated 7â€Deazaâ€2â€²â€deoxyadenosine and Efficient Bioorthogonal Labeling in Vitro and in Living Cells. ChemBioChem, 2018, 19, 1949-1953.	2.6	18
92	Energy-transfer-based wavelength-shifting DNA probes with â€œclickableâ€•cyanine dyes. Photochemical and Photobiological Sciences, 2013, 12, 722.	2.9	17
93	Covalent Modification of 2â€²-Deoxyuridine with Two Different Molecular Switches. Synlett, 2012, 23, 711-716.	1.8	16
94	Two wavelength-shifting molecular beacons for simultaneous and selective imaging of vesicular miRNA-21 and miRNA-31 in living cancer cells. Organic and Biomolecular Chemistry, 2016, 14, 5001-5006.	2.8	16
95	Development of a Wavelengthâ€Shifting Fluorescent Module for the Adenosine Aptamer Using Photostable Cyanine Dyes. ChemistryOpen, 2015, 4, 92-96.	1.9	15
96	Metal-mediated DNA assembly using the ethynyl linked terpyridine ligand. Organic and Biomolecular Chemistry, 2012, 10, 46-48.	2.8	14
97	Synthesis and optical properties of pyrrolidinyl peptide nucleic acid carrying a clicked Nile red label. Beilstein Journal of Organic Chemistry, 2014, 10, 2166-2174.	2.2	14
98	Synthesis of DNA Conjugates with Metalated Tetracationic Porphyrins by Postsynthetic Cycloadditions. Organic Letters, 2014, 16, 1692-1695.	4.6	14
99	Synthesis and Evaluation of Nicotinic Acid Derived Tetrazines for Bioorthogonal Labeling. Synthesis, 2015, 47, 2738-2744.	2.3	14
100	Substitution of Metallocenes with [2.2]Paracyclophane to Enable Confocal Microscopy Imaging in Living Cells. European Journal of Inorganic Chemistry, 2017, 2017, 297-305.	2.0	13
101	Synthesis of DNA Modified with Boronic Acid: Compatibility to Copper(I)-Catalyzed Azideâ€“Alkyne Cycloaddition. Bioconjugate Chemistry, 2018, 29, 431-436.	3.6	13
102	Chemical Photocatalysis with 1-(N,N-Dimethylamino)pyrene. Synlett, 2012, 23, 2803-2807.	1.8	12
103	Conformational control of benzophenone-sensitized charge transfer in dinucleotides. Physical Chemistry Chemical Physics, 2013, 15, 18607.	2.8	12
104	Programmable and Sequenceâ€Selective Supramolecular Assembly of Two Different Chromophores along DNA Templates. Chemistry - A European Journal, 2018, 24, 16257-16261.	3.3	12
105	Triazine-Modified 7-Deaza-2â€²-deoxyadenosines: Better Suited for Bioorthogonal Labeling of DNA by PCR than 2â€²-Deoxyuridines. Bioconjugate Chemistry, 2019, 30, 1773-1780.	3.6	12
106	Synthesis of N,Nâ€dimethylaminopyreneâ€modified short peptides for chemical photocatalysis. Journal of Peptide Science, 2017, 23, 563-566.	1.4	11
107	Photocatalysis of a [2+2] Cycloaddition in Aqueous Solution Using DNA Threeâ€Way Junctions as Chiral PhotoDNAzymes. ChemPhotoChem, 2017, 1, 48-50.	3.0	11
108	Prolineâ€Rich Short Peptides with Photocatalytic Activity for the Nucleophilic Addition of Methanol to Phenylethylenes. European Journal of Organic Chemistry, 2018, 2018, 2204-2207.	2.4	11

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109	Significant Fluorescence Enhancement of N,Nâ€Dimethylaminobenzophenone after Embedding as a Câ€Nucleoside in DNA. ChemPhotoChem, 2018, 2, 12-17.	3.0	11
110	Control of helical chirality in supramolecular chromophoreâ€“DNA architectures. Chemical Communications, 2019, 55, 1330-1333.	4.1	11
111	Photochemical Activation of Sulfur Hexafluoride: A Tool for Fluorination and Pentafluorosulfanylation Reactions. Synthesis, 2022, 54, 4883-4894.	2.3	11
112	4â€Aminophthalimide Amino Acids as Small and Environmentâ€Sensitive Fluorescent Probes for Transmembrane Peptides. ChemBioChem, 2020, 21, 618-622.	2.6	10
113	How Far Does Energy Migrate in DNA and Cause Damage? Evidence for Longâ€Range Photodamage to DNA. Angewandte Chemie - International Edition, 2020, 59, 17378-17382.	13.8	10
114	The Dependence of Chemical Quantum Yields of Visible Light Photoredox Catalysis on the Irradiation Power. ChemPhotoChem, 2021, 5, 1009-1019.	3.0	10
115	Synthetic incorporation of Nile Blue into DNA using 2â€²-deoxyriboside substitutes: Representative comparison of (R)- and (S)-aminopropanediol as an acyclic linker. Beilstein Journal of Organic Chemistry, 2010, 6, 13.	2.2	9
116	Acceleration of Longâ€Range Photoinduced Electron Transfer through DNA by Hydroxyquinolines asâ€‰Artificial Base Pairs. ChemPhysChem, 2015, 16, 1607-1612.	2.1	9
117	An Isosteric and Fluorescent DNA Base Pair Consisting of 4â€aminophthalimide and 2,4â€diaminopyrimidine as Câ€Nucleosides. Angewandte Chemie - International Edition, 2017, 56, 384-388.	13.8	9
118	A postsynthetically 2â€™-â€œclickableâ€•uridine with arabino configuration and its application for fluorescent labeling and imaging of DNA. Beilstein Journal of Organic Chemistry, 2017, 13, 127-137.	2.2	9
119	Control of Energy Transfer Between Pyreneâ€•and Peryleneâ€Nucleosides by the Sequence of DNAâ€Templated Supramolecular Assemblies. ChemistryOpen, 2020, 9, 389-392.	1.9	9
120	Remote Photodamaging of DNA by Photoinduced Energy Transport. ChemBioChem, 2022, 23, .	2.6	9
121	Fast and Efficient Postsynthetic DNA Labeling in Cells by Means of Strainâ€Promoted Sydnoneâ€Alkyne Cycloadditions. Chemistry - A European Journal, 2021, 27, 16093-16097.	3.3	9
122	Unraveling the Pathways to UVAâ€Induced DNA Photodamage: (6â€“4) Photoproduct as a Potential â€œTrojan Horseâ€• ChemPhysChem, 2013, 14, 3197-3198.	2.1	8
123	Dynamic DNA architectures: spontaneous DNA strand exchange and self-sorting driven by perylene bisimide interactions. Chemical Communications, 2015, 51, 16530-16533.	4.1	8
124	Ein DNAâ€Fullerenâ€Konjugat als Templat fÃ¼r supramolekulare Chromophorstapel: Auf dem Weg zu DNAâ€basierten Solarzellen. Angewandte Chemie, 2016, 128, 1936-1941.	2.0	8
125	Synthesis of Wavelengthâ€Shifting Fluorescent DNA and RNA with Two Photostable Cyanineâ€“Styryl Dyes as the Base Surrogate Pair. ChemistryOpen, 2017, 6, 514-518.	1.9	8
126	The role of duplex stability for wavelength-shifting fluorescent DNA probes: energy transfer vs. exciton interactions in DNA â€œtraffic lightsâ€• Photochemical and Photobiological Sciences, 2014, 13, 1126-1129.	2.9	7

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127	Naphthalene diimides with improved solubility for visible light photoredox catalysis. Beilstein Journal of Organic Chemistry, 2019, 15, 2043-2051.	2.2	7
128	Fluorogenic and Bioorthogonal Modification of RNA Using Photoclick Chemistry. Biomolecules, 2020, 10, 480.	4.0	7
129	Nucleophilic Alkoxylations of Unactivated Alkyl Olefins and Î±â€Methyl Styrene by Photoredox Catalysis. European Journal of Organic Chemistry, 2021, 2021, 773-776.	2.4	7
130	The Search for Single DNA Damage among Millions of Base Pairs: DNA Glycosylases Trapped at Work. Angewandte Chemie - International Edition, 2006, 45, 5583-5585.	13.8	6
131	Conformational Control of Dual Emission by Pyrrolidinyl PNAâ€“DNA Hybrids. ChemistryOpen, 2012, 1, 173-176.	1.9	6
132	Mesityl phenanthroline-modified 2â€²-deoxyuridine for heteroleptic complexes in metal ion-mediated assembly of DNA. Dalton Transactions, 2015, 44, 6715-6718.	3.3	6
133	Pyreneâ€“nucleobase conjugates: synthesis, oligonucleotide binding and confocal bioimaging studies. Beilstein Journal of Organic Chemistry, 2017, 13, 2521-2534.	2.2	6
134	Tackling Tumour Cell Heterogeneity at the Super-Resolution Level in Human Colorectal Cancer Tissue. Cancers, 2021, 13, 3692.	3.7	6
135	A simple pyrene â€œclickâ€•type modification of DNA affects solubilisation and photoluminescence of single-walled carbon nanotubes. RSC Advances, 2013, 3, 6331.	3.6	5
136	In-stem labelling allows visualization of DNA strand displacements by distinct fluorescent colour change. Organic and Biomolecular Chemistry, 2013, 11, 3085.	2.8	5
137	The base discriminating potential of pyrrolidinyl PNA demonstrated by magnetic FexOy particles. Organic and Biomolecular Chemistry, 2014, 12, 3586.	2.8	5
138	Light-induced functions in DNA. Current Opinion in Chemical Biology, 2017, 40, 119-126.	6.1	5
139	Molecular Chromophore-DNA Architectures With Fullerenes: Optical Properties and Solar Cells. Frontiers in Chemistry, 2021, 9, 645006.	3.6	5
140	Synthesis of Wavelength-shifting DNA Hybridization Probes by Using Photostable Cyanine Dyes. Journal of Visualized Experiments, 2016, , .	0.3	4
141	AufklÃrung des Dexterâ€Energietransfers in DNA an der Thyminâ€Thyminâ€Dimerbildung mithilfe von Photosensibilisatoren als artifizielle Nucleoside. Angewandte Chemie, 2017, 129, 1406-1410.	2.0	4
142	â€œsiRNA traffic lightsâ€• arabino-configured 2â€²-anchors for fluorescent dyes are key for dual color readout in cell imaging. Organic and Biomolecular Chemistry, 2018, 16, 3726-3731.	2.8	4
143	Wie weit wandert Energie in der DNA und verursacht SchÃden? Nachweis des langreichweitigen Photoschadens in DNA. Angewandte Chemie, 2020, 132, 17530-17535.	2.0	4
144	N-Arylbenzo[b]phenothiazines as Reducing Photoredox Catalysts for Nucleophilic Additions of Alcohols to Styrenes: Shift towards Visible Light. Synlett, 2021, 32, 582-586.	1.8	4

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145	Fluorescence Quenching over Short Range in a Donorâ€DNAâ€Acceptor System. ChemPhysChem, 2013, 14, 1197-1204.	2.1	3
146	Thieme Chemistry Journal Awardees â€“ Where are They Now? The Influence of Electron-Withdrawing Groups at the 2- and 2â€²-Positions of Dibenzothienylethenes on Molecular Switching. Synlett, 2017, 28, 1422-1426.	1.8	3
147	Synthesis of Dyeâ€Modified Oligonucleotides via Copper(I)â€Catalyzed Alkyne Azide Cycloaddition Using Onâ€and Offâ€Bead Approaches. Current Protocols in Nucleic Acid Chemistry, 2018, 72, 4.80.1-4.80.13.	0.5	3
148	Influences of Linker and Nucleoside for the Helical Self-Assembly of Perylene Along DNA Templates. Frontiers in Chemistry, 2019, 7, 659.	3.6	3
149	DNA-templated control of chirality and efficient energy transport in supramolecular DNA architectures with aggregation-induced emission. Chemical Science, 2021, 12, 10048-10053.	7.4	3
150	The Concept of Photozymes: Short Peptides with Photoredox Catalytic Activity for Nucleophilic Additions to Î±â€Phenyl Styrenes. European Journal of Organic Chemistry, 2021, 2021, 6400-6407.	2.4	3
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