Bruce A Armitage

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 117
 5,796
 41
 74

 papers
 6,087
 8.8
 5.88

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
117	Rapid, multiplexed detection of the let-7 miRNA family using B NA amphiphiles in micelle-tagging electrophoresis. <i>Biopolymers</i> , 2021 , e23479	2.2	
116	Targeting a Potential G-Quadruplex Forming Sequence Found in the West Nile Virus Genome by Complementary Gamma-Peptide Nucleic Acid Oligomers. <i>ACS Infectious Diseases</i> , 2021 , 7, 1445-1456	5.5	4
115	Enhanced Hybridization Selectivity Using Structured GammaPNA Probes. <i>Molecules</i> , 2020 , 25,	4.8	7
114	Assembly and Characterization of RNA/DNA Hetero-G-Quadruplexes. <i>Biochemistry</i> , 2020 , 59, 4072-4080) 3.2	1
113	Targeting G-Quadruplexes with PNA Oligomers. <i>Methods in Molecular Biology</i> , 2019 , 2035, 333-345	1.4	2
112	Efficient Cytoplasmic Delivery of Antisense Probes Assisted by Cyclized-Peptide-Mediated Photoinduced Endosomal Escape. <i>ChemBioChem</i> , 2019 , 20, 727-733	3.8	3
111	Spectral Properties of Fluorogenic Thiophene-derived Triarylmethane Dyes. <i>Photochemistry and Photobiology</i> , 2019 , 95, 406-410	3.6	3
110	Closing the Loop: Constraining TAT Peptide by PNA Hairpin for Enhanced Cellular Delivery of Biomolecules. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2892-2898	6.3	15
109	Accessibility of Densely Localized DNA on Soft Polymer Nanoparticles. <i>Langmuir</i> , 2018 , 34, 14731-1473	74	4
108	Structural basis for activation of fluorogenic dyes by an RNA aptamer lacking a G-quadruplex motif. <i>Nature Communications</i> , 2018 , 9, 4542	17.4	25
107	Fluoromodules Consisting of a Promiscuous RNA Aptamer and Red or Blue Fluorogenic Cyanine Dyes: Selection, Characterization, and Bioimaging. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9001-9009	16.4	69
106	B NA FRET Pair Miniprobes for Quantitative Fluorescent In Situ Hybridization to Telomeric DNA in Cells and Tissue. <i>Molecules</i> , 2017 , 22,	4.8	6
105	Homologous PNA Hybridization to Noncanonical DNA G-Quadruplexes. <i>Biochemistry</i> , 2016 , 55, 1749-57	3.2	10
104	Probing of miniPEGEPNA-DNA Hybrid Duplex Stability with AFM Force Spectroscopy. <i>Biochemistry</i> , 2016 , 55, 1523-8	3.2	11
103	RNA G-Quadruplex Invasion and Translation Inhibition by Antisense EPeptide Nucleic Acid Oligomers. <i>Biochemistry</i> , 2016 , 55, 1977-88	3.2	17
102	Fluoromodules: Fluorescent Dye P rotein Complexes for Genetically Encodable Labels 2016 , 124-136		
101	In Vitro Reversible Translation Control Using B NA Probes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10268-75	16.4	13

(2011-2015)

100	Spectral fine tuning of cyanine dyes: electron donor-acceptor substituted analogues of thiazole orange. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1703-12	4.2	15
99	Bright Fluorescent Nanotags from Bottlebrush Polymers with DNA-Tipped Bristles. <i>ACS Central Science</i> , 2015 , 1, 431-8	16.8	50
98	Bichromophoric dyes for wavelength shifting of dye-protein fluoromodules. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 3699-710	3.9	7
97	Cooperative hybridization of P NA miniprobes to a repeating sequence motif and application to telomere analysis. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 7345-7354	3.9	15
96	Label-free molecular beacons for biomolecular detection. <i>Analytical Chemistry</i> , 2014 , 86, 10864-9	7.8	64
95	Hybridization of G-quadruplex-forming peptide nucleic acids to guanine-rich DNA templates inhibits DNA polymerase [extension. <i>Biochemistry</i> , 2014 , 53, 5315-22	3.2	20
94	Modular evolution of DNA-binding preference of a Tbrain transcription factor provides a mechanism for modifying gene regulatory networks. <i>Molecular Biology and Evolution</i> , 2014 , 31, 2672-88	8.3	26
93	Aptamers act as activators for the thrombin mediated-hydrolysis of peptide substrates. <i>ChemBioChem</i> , 2014 , 15, 205-8	3.8	11
92	A Single-Chain-Variable-Fragment Fluorescence Biosensor Activates Fluorogens from Dissimilar Chemical Families. <i>Protein and Peptide Letters</i> , 2014 , 21, 1289-1294	1.9	4
91	Formation and characterization of PNA-containing heteroquadruplexes. <i>Methods in Molecular Biology</i> , 2014 , 1050, 73-82	1.4	
90	Analysis of PNA hybridization by surface plasmon resonance. <i>Methods in Molecular Biology</i> , 2014 , 1050, 159-65	1.4	
89	A single-chain-variable-fragment fluorescence biosensor activates fluorogens from dissimilar chemical families. <i>Protein and Peptide Letters</i> , 2014 , 21, 1289-94	1.9	3
88	High affinity P NA sandwich hybridization assay for rapid detection of short nucleic acid targets with single mismatch discrimination. <i>Biomacromolecules</i> , 2013 , 14, 2253-61	6.9	18
87	Antitumor effects of EGFR antisense guanidine-based peptide nucleic acids in cancer models. <i>ACS Chemical Biology</i> , 2013 , 8, 345-52	4.9	37
86	Strand invasion of DNA quadruplexes by PNA: comparison of homologous and complementary hybridization. <i>ChemBioChem</i> , 2013 , 14, 1476-84	3.8	18
85	Twisted cyanines: a non-planar fluorogenic dye with superior photostability and its use in a protein-based fluoromodule. <i>Journal of the American Chemical Society</i> , 2013 , 135, 242-51	16.4	69
84	A variable light domain fluorogen activating protein homodimerizes to activate dimethylindole red. <i>Biochemistry</i> , 2012 , 51, 2471-85	3.2	19
83	Synthesis and characterization of conformationally preorganized, (R)-diethylene glycol-containing Epeptide nucleic acids with superior hybridization properties and water solubility. <i>Journal of Organic Chemistry</i> , 2011 , 76, 5614-27	4.2	140

82	Fluorescent DNA nanotags featuring covalently attached intercalating dyes: synthesis, antibody conjugation, and intracellular imaging. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1491-502	6.3	24
81	Wavelength Dependence of the Fluorescence Quenching Efficiency of Nearby Dyes by Gold Nanoclusters and Nanoparticles: The Roles of Spectral Overlap and Particle Size. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20105-20112	3.8	55
80	Blue fluorescent dye-protein complexes based on fluorogenic cyanine dyes and single chain antibody fragments. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 1012-20	3.9	54
79	Imaging of RNA in live cells. Current Opinion in Chemical Biology, 2011 , 15, 806-12	9.7	78
78	Substituent effects on the assembly of helical cyanine dye aggregates in the minor groove of a DNA template. <i>Langmuir</i> , 2011 , 27, 1472-9	4	26
77	Kinetic discrimination in recognition of DNA quadruplex targets by guanine-rich heteroquadruplex-forming PNA probes. <i>Chemical Communications</i> , 2011 , 47, 8524-6	5.8	16
76	Noncovalent binding and fluorogenic response of cyanine dyes to DNA homoquadruplex and PNA-DNA heteroquadruplex structures. <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 43-49		13
75	Telomeric repeat mutagenicity in human somatic cells is modulated by repeat orientation and G-quadruplex stability. <i>DNA Repair</i> , 2010 , 9, 1119-29	4.3	9
74	Loop and backbone modifications of peptide nucleic acid improve g-quadruplex binding selectivity. Journal of the American Chemical Society, 2009 , 131, 18415-24	16.4	50
73	Fluorescent DNA nanotags based on a self-assembled DNA tetrahedron. ACS Nano, 2009, 3, 425-33	16.7	97
72	Enhanced photostability of genetically encodable fluoromodules based on fluorogenic cyanine dyes and a promiscuous protein partner. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12960-9	16.4	74
71	Refined multivalent display of bacterial spore-binding peptides. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 1815-20	3.9	9
70	Cyanine DyeNucleic Acid Interactions. <i>Topics in Heterocyclic Chemistry</i> , 2008 , 11-29	0.2	39
69	Synthesis of new fluorogenic cyanine dyes and incorporation into RNA fluoromodules. <i>Organic Letters</i> , 2008 , 10, 1561-4	6.2	119
68	Molecular engineering of torsional potentials in fluorogenic dyes via electronic substituent effects. Journal of Physical Chemistry A, 2008 , 112, 9692-701	2.8	12
67	A rainbow of fluoromodules: a promiscuous scFv protein binds to and activates a diverse set of fluorogenic cyanine dyes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12620-1	16.4	94
66	Chemistry. An enlightening structure-function relationship. <i>Science</i> , 2008 , 319, 1195-6	33.3	7
65	Peptide Nucleic Acids (PNAs) 2008 , 1		1

(2004-2007)

64	Fluorescent DNA nanotags: supramolecular fluorescent labels based on intercalating dye arrays assembled on nanostructured DNA templates. <i>Journal of the American Chemical Society</i> , 2007 , 129, 202	.5 ¹⁶ 4	135
63	High-affinity homologous peptide nucleic acid probes for targeting a quadruplex-forming sequence from a MYC promoter element. <i>Biochemistry</i> , 2007 , 46, 10433-43	3.2	43
62	Experimental and computational investigation of unsymmetrical cyanine dyes: understanding torsionally responsive fluorogenic dyes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5710-8	16.4	159
61	Strand invasion of mixed-sequence B-DNA by acridine-linked, gamma-peptide nucleic acid (gamma-PNA). <i>Journal of the American Chemical Society</i> , 2007 , 129, 15596-600	16.4	86
60	The Aptamer Handbook. Functional Oligonucleotides and Their Applications. Herausgegeben von Sven Klussmann <i>Angewandte Chemie</i> , 2007 , 119, 1226-1227	3.6	
59	A structural model for cyanine dyes templated into the minor groove of DNA. <i>Chemical Physics</i> , 2006 , 325, 36-47	2.3	15
58	Hybridization of complementary and homologous peptide nucleic acid oligomers to a guanine quadruplex-forming RNA. <i>Biochemistry</i> , 2006 , 45, 1745-54	3.2	46
57	Fluorescent PNA probes as hybridization labels for biological RNA. <i>Biochemistry</i> , 2006 , 45, 6066-74	3.2	38
56	Effect of PNA backbone modifications on cyanine dye binding to PNA-DNA duplexes investigated by optical spectroscopy and molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3339-45	16.4	42
55	Reversible Association of PNA-Terminated Poly(2-hydroxyethyl acrylate) from ATRP. <i>Macromolecules</i> , 2005 , 38, 5846-5848	5.5	25
54	Quadruplex formation by a guanine-rich PNA oligomer. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4199-207	16.4	60
53	RNA guanine quadruplex invasion by complementary and homologous PNA probes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8032-3	16.4	46
52	1H NMR and optical spectroscopic investigation of the sequence-dependent dimerization of a symmetrical cyanine dye in the DNA minor groove. <i>Biochemistry</i> , 2005 , 44, 15924-9	3.2	22
51	Role reversal in a supramolecular assembly: a chiral cyanine dye controls the helicity of a peptide-nucleic acid duplex. <i>Langmuir</i> , 2005 , 21, 5362-6	4	19
50	DNA-Templated Assembly of Helical Multichromophore Aggregates. <i>Molecular and Supramolecular Photochemistry</i> , 2005 , 255-287		
49	Cyanine Dye D NA Interactions: Intercalation, Groove Binding, and Aggregation. <i>Topics in Current Chemistry</i> , 2005 , 55-76		211
48	Cubic liquid-crystalline nanoparticles. Angewandte Chemie - International Edition, 2004, 43, 4402-9	16.4	69
47	Kubische fl\(\text{S}\) sigkristalline Nanopartikel. <i>Angewandte Chemie</i> , 2004 , 116, 4502-4510	3.6	1

46	Recent advances in the development of peptide nucleic acid as a gene-targeted drug. <i>Expert Opinion on Biological Therapy</i> , 2004 , 4, 337-48	5.4	38
45	A recoverable enzymatic microgel based on biomolecular recognition. <i>Journal of the American Chemical Society</i> , 2004 , 126, 726-7	16.4	30
44	Effect of LNA modifications on small molecule binding to nucleic acids. <i>Journal of Biomolecular Structure and Dynamics</i> , 2004 , 21, 841-50	3.6	14
43	DNA-templated assembly of helical cyanine dye aggregates: a supramolecular chain polymerization. <i>Accounts of Chemical Research</i> , 2004 , 37, 845-53	24.3	276
42	Improved photostability and fluorescence properties through polyfluorination of a cyanine dye. <i>Organic Letters</i> , 2004 , 6, 909-12	6.2	118
41	The impact of nucleic acid secondary structure on PNA hybridization. <i>Drug Discovery Today</i> , 2003 , 8, 222	2-8 .8	74
40	Self-assembled supramolecular microgels: Fractal structure and aggregation mechanism. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 3037-3046	2.6	11
39	Synthesis and characterization of thermoreversible biopolymer microgels based on hydrogen bonded nucleobase pairing. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10250-6	16.4	22
38	Formation of a PNA2-DNA2 hybrid quadruplex. <i>Journal of the American Chemical Society</i> , 2003 , 125, 411	1 1:-8 .4	81
37	Electrostatic Contributions to Cyanine Dye Aggregation on Peptide Nucleic Acid Templates Langmuir, 2003 , 19, 6449-6455	4	14
36	LangmuirSpecial Issue in Memory of David F. O'Brien 🛭 <i>Langmuir</i> , 2003 , 19, 6339-6341	4	
35	Detection of Single Nucleotide Mismatches via Fluorescent Polymer Superquenching <i>Langmuir</i> , 2003 , 19, 6456-6464	4	72
34	Helical Aggregation of Cyanine Dyes on DNA Templates: Effect of Dye Structure on Formation of Homo- and Heteroaggregates. <i>Langmuir</i> , 2002 , 18, 6330-6337	4	91
33	Colorimetric detection of PNA-DNA hybridization using cyanine dyes. <i>Methods in Molecular Biology</i> , 2002 , 208, 131-42	1.4	1
32	10 Bioinspired organic chemistry. Annual Reports on the Progress of Chemistry Section B, 2002 , 98, 503-5	541	3
31	Hybridization of PNA to structured DNA targets: quadruplex invasion and the overhang effect. Journal of the American Chemical Society, 2001 , 123, 9612-9	16.4	100
30	Investigation of DNA binding modes for a symmetrical cyanine dye trication: effect of DNA sequence and structure. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001 , 18, 844-56	3.6	20
29	Recognition of ATGA sequences by the unfused aromatic dication DB293 forming stacked dimers in the DNA minor groove. <i>Biochemistry</i> , 2001 , 40, 9770-9	3.2	45

10 Bioinspired organic chemistry. Annual Reports on the Progress of Chemistry Section B, 2001, 97, 483-512 28 7 Effect of secondary structure on the thermodynamics and kinetics of PNA hybridization to DNA 81 27 16.4 hairpins. Journal of the American Chemical Society, 2001, 123, 10805-13 6 Bioinspired organic chemistry. Annual Reports on the Progress of Chemistry Section B, 2000, 96, 187-229 26 4 DNA-Templated Formation of a Helical Cyanine Dye J-Aggregate. Journal of the American Chemical 16.4 269 25 Society, 2000, 122, 9977-9986 Long Range Electron Transfer in PNA/DNA Duplexes. Nucleosides & Nucleotides, 1999, 18, 1313-1315 2 24 Molecular Recognition of PNA-Containing Hybrids: Spontaneous Assembly of Helical Cyanine Dye 84 23 16.4 Aggregates on PNA Templates. Journal of the American Chemical Society, 1999, 121, 2686-2695 Spontaneous Assembly of Helical Cyanine Dye Aggregates on DNA Nanotemplates. Journal of the 22 16.4 229 American Chemical Society, **1999**, 121, 2987-2995 Three-Dimensional Structure and Reactivity of a Photochemical Cleavage Agent Bound to DNA. 16.4 21 30 Journal of the American Chemical Society, 1998, 120, 12402-12409 Selective photocleavage of DNA by anthraquinone derivatives: targeting the single-strand region 20 3.2 29 of hairpin structures. Biochemistry, 1998, 37, 2991-3000 Polymerization of Preformed Self-Organized Assemblies. Accounts of Chemical Research, 1998, 31, 861-868.3 19 Hairpin-forming peptide nucleic acid oligomers. Biochemistry, 1998, 37, 9417-25 18 3.2 39 Photocleavage of Nucleic Acids. Chemical Reviews, 1998, 98, 1171-1200 68.1 661 17 Peptide nucleic acid (PNA)/DNA hybrid duplexes: intercalation by an internally linked 16 20.1 14 anthraquinone. Nucleic Acids Research, 1998, 26, 715-20 Selective stabilization of triplex DNA by anthraquinone sulfonamide derivatives. Biochemistry, 1997 3.2 28 15 , 36, 1461-6 Two-Dimensional Polymerization of Lipid Bilayers: Usible-Light-Sensitized Photoinitiation. 14 5.5 35 Macromolecules, 1997, 30, 32-41 Peptide nucleic acid-DNA duplexes: long range hole migration from an internally linked anthraquinone. Proceedings of the National Academy of Sciences of the United States of America, 48 11.5 13 **1997**, 94, 12320-5 Anthraguinone photonucleases: a surprising role for chloride in the sequence-neutral cleavage of DNA and the footprinting of minor groove-bound ligands. Photochemistry and Photobiology, 1997, 12 3.6 14 66, 164-70 Cleavage of DNA by Irradiation of Substituted Anthraquinones: Intercalation Promotes Electron 11 150 Transfer and Efficient Reaction at GG Steps. Journal of the American Chemical Society, 1996, 118, 8747-8748

10	Polymerization and domain formation in lipid assemblies. <i>Advances in Polymer Science</i> , 1996 , 53-84	1.3	29
9	Factors controlling the efficiencies of photoinduced electron-transfer reactions. <i>Research on Chemical Intermediates</i> , 1995 , 21, 793-806	2.8	22
8	Cationic Anthraquinone Derivatives as Catalytic DNA Photonucleases: Mechanisms for DNA Damage and Quinone Recycling. <i>Journal of the American Chemical Society</i> , 1994 , 116, 9847-9859	16.4	163
7	Efficient Photoinduced Orthogonal Energy and Electron Transfer Reactions via Phospholipid Membrane-Bound Donors and Acceptors. <i>Journal of the American Chemical Society</i> , 1994 , 116, 9166-91	7 ³ 6.4	20
6	Enhancement of energy transfer on bilayer surfaces via polymerization-induced domain formation. Journal of the American Chemical Society, 1993 , 115, 7920-7921	16.4	18
5	Dimerization of cyanine dyes in water driven by association with hydrophobic borate anions. Journal of the American Chemical Society, 1993 , 115, 10786-10790	16.4	19
4	Vectorial photoinduced electron transfer between phospholipid membrane-bound donors and acceptors. <i>Journal of the American Chemical Society</i> , 1992 , 114, 7396-7403	16.4	22
3	Lipid bilayer enhanced photoinduced electron transfer. <i>Journal of the American Chemical Society</i> , 1991 , 113, 9678-9679	16.4	11
2	Electron-transfer reactions in the Marcus inverted region. Charge recombination versus charge shift reactions. <i>Journal of the American Chemical Society</i> , 1989 , 111, 1917-1919	16.4	101
1	Recent advances in the development of peptide nucleic acid as a gene-targeted drug		1