

Alain Burger

List of Publications by Year in descending order

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1,391
citations

331670

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docs citations

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times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	An Expedient Approach towards the Synthesis and Application of Water-Soluble and Photostable Fluorogenic Chromones for DNA Detection. <i>Molecules</i> , 2022, 27, 2267.	3.8	2
2	Design, photophysical properties, and applications of fluorene-based fluorophores in two-photon fluorescence bioimaging: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 52, 100529.	11.6	38
3	Control of Intermolecular Photoinduced Electron Transfer in Deoxyadenosine-Based Fluorescent Probes. <i>Chemistry - A European Journal</i> , 2021, 27, 1364-1373.	3.3	4
4	Intermolecular dark resonance energy transfer (DRET): upgrading fluorogenic DNA sensing. <i>Nucleic Acids Research</i> , 2021, 49, e72-e72.	14.5	9
5	Probing of Nucleic Acid Structures, Dynamics, and Interactions With Environment-Sensitive Fluorescent Labels. <i>Frontiers in Chemistry</i> , 2020, 8, 112.	3.6	67
6	Electronic transitions and ESIPT kinetics of the thienyl-3-hydroxychromone nucleobase surrogate in DNA duplexes: a DFT/MD-TDDFT study. <i>RSC Advances</i> , 2020, 10, 7349-7359.	3.6	6
7	Rational design, synthesis, and photophysics of dual-emissive deoxyadenosine analogs. <i>Dyes and Pigments</i> , 2019, 170, 107553.	3.7	12
8	New Fluorescent Analogs of Nucleotides Based on 3-Hydroxychromone for Recording Conformational Changes of DNA. <i>Russian Journal of Bioorganic Chemistry</i> , 2019, 45, 599-607.	1.0	4
9	Comparative Analysis of Nucleotide Fluorescent Analogs for Registration of DNA Conformational Changes Induced by Interaction with Formamidopyrimidine-DNA Glycosylase Fpg. <i>Russian Journal of Bioorganic Chemistry</i> , 2019, 45, 591-598.	1.0	6
10	Imidazo[2,1- <i>b</i>]benzothiazol Derivatives as Potential Allosteric Inhibitors of the Glucocorticoid Receptor. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 339-344.	2.8	4
11	Environmentally Sensitive Fluorescent Nucleoside Analogues for Surveying Dynamic Interconversions of Nucleic Acid Structures. <i>Chemistry - A European Journal</i> , 2018, 24, 13850-13861.	3.3	20
12	Dynamics of Methylated Cytosine Flipping by UHRF1. <i>Journal of the American Chemical Society</i> , 2017, 139, 2520-2528.	13.7	44
13	Turn-on Fluorene Push-Pull Probes with High Brightness and Photostability for Visualizing Lipid Order in Biomembranes. <i>ACS Chemical Biology</i> , 2017, 12, 3022-3030.	3.4	38
14	Structural and Dynamical Impact of a Universal Fluorescent Nucleoside Analogue Inserted Into a DNA Duplex. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11249-11261.	2.6	8
15	Rational Design of Push-Pull Fluorene Dyes: Synthesis and Structure-Photophysics Relationship. <i>Chemistry - A European Journal</i> , 2016, 22, 10627-10637.	3.3	53
16	A turn-on dual emissive nucleobase sensitive to mismatches and duplex conformational changes. <i>RSC Advances</i> , 2016, 6, 87142-87146.	3.6	9
17	Design and Development of a Two-Color Emissive FRET Pair Based on a Photostable Fluorescent Deoxyuridine Donor Presenting a Mega-Stokes Shift. <i>Journal of Organic Chemistry</i> , 2016, 81, 10733-10741.	3.2	13
18	Air-Stable Pd Catalytic Systems for Sequential One-Pot Synthesis of Challenging Unsymmetrical Aminoaromatics. <i>Journal of Organic Chemistry</i> , 2016, 81, 7566-7573.	3.2	23

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19	Dual emissive analogue of deoxyuridine as a sensitive hydration-reporting probe for discriminating mismatched from matched DNA and DNA/DNA from DNA/RNA duplexes. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3010-3017.	5.5	20
20	Rational Design of a Solvatochromic Fluorescent Uracil Analogue with a Dual-Band Ratiometric Response Based on 3-Hydroxychromone. <i>Chemistry - A European Journal</i> , 2014, 20, 1998-2009.	3.3	45
21	New Environment-Sensitive Multichannel DNA Fluorescent Label for Investigation of the Protein-DNA Interactions. <i>PLoS ONE</i> , 2014, 9, e100007.	2.5	44
22	Ab initio study of the solvent H-bonding effect on ESIPT reaction and electronic transitions of 3-hydroxychromone derivatives. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8910.	2.8	58
23	A Universal Nucleoside with Strong Two-Band Switchable Fluorescence and Sensitivity to the Environment for Investigating DNA Interactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 10209-10213.	13.7	83
24	A Mild and Efficient Protocol for the Protection of 3-Hydroxychromones Under Phase-Transfer Catalysis. <i>Synthesis</i> , 2011, 2011, 2159-2164.	2.3	2
25	8-Modified-2-Deoxyadenosine Analogues Induce Delayed Polymerization Arrest during HIV-1 Reverse Transcription. <i>PLoS ONE</i> , 2011, 6, e27456.	2.5	8
26	Design, synthesis and studies of triphosphate analogues for the production of anti AZT-TP antibodies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 987-990.	2.2	4
27	5-Modified-2-dU and 2-dC as Mutagenic Anti HIV-1 Proliferation Agents: Synthesis and Activity. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1534-1545.	6.4	22
28	Efficient Synthesis of Ratiometric Fluorescent Nucleosides Featuring 3-Hydroxychromone Nucleobases. <i>Tetrahedron</i> , 2009, 65, 7809-7816.	1.9	63
29	Friedel-Crafts and modified Vorbrüggen ribosylation. A short synthesis of aryl and heteroaryl-C-nucleosides. <i>Tetrahedron Letters</i> , 2008, 49, 3967-3971.	1.4	24
30	Time-Resolved Fluorescent Properties of 8-Vinyl-deoxyadenosine and 2-Amino-deoxyribosylpurine Exhibit Different Sensitivity to Their Opposite Base in Duplexes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9736-9745.	2.6	18
31	Efficient Synthesis of 1- and 2-Deoxy-heteroaryl-C-nucleosides. <i>Synlett</i> , 2008, 2008, 1225-1229.	1.8	1
32	Quantitative Immunoassay To Measure Plasma and Intracellular Atazanavir Levels: Analysis of Drug Accumulation in Cultured T Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 405-411.	3.2	10
33	Synthesis of pyochelin-norfloracin conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 640-644.	2.2	63
34	Development of a competitive immunoassay for efavirenz: Hapten design and validation studies. <i>Analytica Chimica Acta</i> , 2007, 589, 142-149.	5.4	20
35	Excited-State Properties and Transitions of Fluorescent 8-Vinyl Adenosine in DNA. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26327-26336.	2.6	21
36	Synthesis of functionalized analogs of pyochelin, a siderophore of <i>Pseudomonas aeruginosa</i> and <i>Burkholderia cepacia</i> . <i>Tetrahedron</i> , 2006, 62, 2247-2254.	1.9	16

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37	Bacterial siderophores: the solution stoichiometry and coordination of the Fe(III) complexes of pyochelin and related compounds. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 419-432.	2.6	58
38	From a total synthesis of cepabactin and its 3:1 ferric complex to the isolation of a 1:1:1 mixed complex between iron (III), cepabactin and pyochelin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 1721-1724.	2.2	30
39	8-vinyl-deoxyadenosine, an alternative fluorescent nucleoside analog to 2'-deoxyribosyl-2-aminopurine with improved properties. <i>Nucleic Acids Research</i> , 2005, 33, 1031-1039.	14.5	99
40	Radical cyclisation mediates the synthesis of a new base-ribose carbon bridged adenosine. <i>Tetrahedron Letters</i> , 2004, 45, 4013-4015.	1.4	2
41	Synthesis of new thiazole analogues of pyochelin, a siderophore of <i>Pseudomonas aeruginosa</i> and <i>Burkholderia cepacia</i> . A new conversion of thiazolines into thiazoles. <i>Tetrahedron</i> , 2004, 60, 12139-12145.	1.9	46
42	Synthesis of 8-vinyladenosine 5'-di- and 5'-triphosphate: evaluation of the diphosphate compound on ribonucleotide reductase. <i>Tetrahedron</i> , 2003, 59, 7315-7322.	1.9	11
43	Determination of the transglycosidation activity of NAD ⁺ glycohydrolases with 4-(2-alkyl-sulfanyl-vinyl)-pyridine derivatives generating chromophoric NAD ⁺ analogs. <i>Bioorganic Chemistry</i> , 2003, 31, 288-305.	4.1	2
44	Synthesis of Nucleoside Dimers Bridged on Ribose with a Butadiynyl Group. <i>Organic Letters</i> , 2003, 5, 383-385.	4.6	16
45	PREPARATION OF 1-(3-C-(PROPA-1,2-DIENYL)-D-RIBO-PENTOFURANOSYL)URACIL, AN ALLENIC NUCLEOSIDE. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 1775-1781.	1.1	14
46	Hydroxyl groups at C-3 and at C-17 of the unnatural enantiomer, ent-androsta-5,9(11)-diene-3 β ,17 β -diol are oxidised by cholesterol oxidase from <i>Rhodococcus erythropolis</i> . <i>Tetrahedron Letters</i> , 2001, 42, 505-507.	1.4	9
47	Di-tert-butyl diethylphosphoramidite as the phosphitylating reagent in the preparation of 3-deoxy-3-C-methylene-d-ribo-hexose-6-phosphate and 3-deoxy-3-C-methylene-d-erythro-pentose-5-phosphate. <i>Carbohydrate Research</i> , 2001, 332, 141-149.	2.3	8
48	3'-ethynyl and 2'-deoxy-3'-ethynyl adenosines: first 3'-branched-adenosines substrates of adenosine deaminase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 139-141.	2.2	5
49	Synthesis of 8-(β -Hydroxyalkyl)-, 8-(β -Hydroxyalk-1-enyl)-, and 8-(β -Hydroxyalk-1-ynyl)adenines Using the tert-Butyldimethylsilyloxymethyl Group, a New and Versatile Protecting Group of Adenine. <i>Journal of Organic Chemistry</i> , 2000, 65, 7825-7832.	3.2	50
50	Diastereofacial Selective Addition of Ethynylcerium Reagent and Barton-McCombie Reaction as the Key Steps for the Synthesis of C-3'-Ethynylribonucleosides and of C-3'-Ethynyl-2'-deoxyribonucleosides. <i>Journal of Organic Chemistry</i> , 1997, 62, 8309-8314.	3.2	28
51	Determination of a low isomerisation barrier in a push-pull alkene: Conversion of the (Z)-isomer to the (E) 1-methyl-4-(2-methylthiovinyl)-pyridinium iodide. <i>Tetrahedron Letters</i> , 1997, 38, 3585-3586.	1.4	6
52	Cyclization by free radical addition of stannyl or thiyl radical to 3'-ethynyl uridine. Is the 3'-ethynyl group a spin trap in ribonucleotide reductase?. <i>Tetrahedron Letters</i> , 1997, 38, 5877-5880.	1.4	9
53	4-(Chloroacetyl)pyridinium Salt: A New Chromophoric and Solvatochromic Reagent of the Thiol Group. <i>Journal of the American Chemical Society</i> , 1996, 118, 2153-2159.	13.7	6
54	t-Butyldimethylsilyloxymethyl group, a versatile protecting group of adenine. <i>Tetrahedron Letters</i> , 1996, 37, 7833-7836.	1.4	10

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55	Rapid and efficient stereocontrolled synthesis of C-3-ethynyl ribo and xylonucleosides by organocerium additions to 3-ketonucleosides. Tetrahedron Letters, 1995, 36, 1031-1034.	1.4	24
56	Preparation of an α -aminophosphonate cation equivalent and its reaction with organoboranes. Tetrahedron Letters, 1994, 35, 6421-6424.	1.4	16
57	A novel selective reagent of thiols and selenols.. Tetrahedron Letters, 1993, 34, 3291-3292.	1.4	3
58	Allenic cholesteryl derivatives as inhibitors of ecdysone biosynthesis. Tetrahedron, 1989, 45, 155-164.	1.9	29
59	Acetylenic cholesteryl derivatives as irreversible inhibitors of ecdysone biosynthesis. Tetrahedron, 1988, 44, 1141-1152.	1.9	28