

Alain Burger

List of Publications by Year in descending order

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59
papers

1,391
citations

331670

21
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361022

35
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61
all docs

61
docs citations

61
times ranked

1308
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Probing of Nucleic Acid Structures, Dynamics, and Interactions With Environment-Sensitive Fluorescent Labels. <i>Frontiers in Chemistry</i> , 2020, 8, 112. | 3.6 | 67 |
| 4 | Synthesis of pyochelin–norfloxacin conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 640-644. | 2.2 | 63 |
| 5 | Efficient Synthesis of Ratiometric Fluorescent Nucleosides Featuring 3-Hydroxychromone Nucleobases. <i>Tetrahedron</i> , 2009, 65, 7809-7816. | 1.9 | 63 |
| 6 | 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 |
| 7 | Ab initio study of the solvent H-bonding effect on ESPT reaction and electronic transitions of 3-hydroxychromone derivatives. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8910. | 2.8 | 58 |
| 8 | 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 |
| 9 | Synthesis of 8-(1-Hydroxyalkyl)-, 8-(1-Hydroxyalk-1-enyl)-, and 8-(1-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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Dynamics of Methylated Cytosine Flipping by UHRF1. <i>Journal of the American Chemical Society</i> , 2017, 139, 2520-2528. | 13.7 | 44 |
| 13 | New Environment-Sensitive Multichannel DNA Fluorescent Label for Investigation of the Protein-DNA Interactions. <i>PLoS ONE</i> , 2014, 9, e100007. | 2.5 | 44 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Allenic cholesteryl derivatives as inhibitors of ecdysone biosynthesis. <i>Tetrahedron</i> , 1989, 45, 155-164. | 1.9 | 29 |
| 18 | Acetylenic cholesteryl derivatives as irreversible inhibitors of ecdysone biosynthesis. <i>Tetrahedron</i> , 1988, 44, 1141-1152. | 1.9 | 28 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Rapid and efficient stereocontrolled synthesis of C-3'-ethynyl ribo and xylonucleosides by organocerium additions to 3'-ketonucleosides. <i>Tetrahedron Letters</i> , 1995, 36, 1031-1034. | 1.4 | 24 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Development of a competitive immunoassay for efavirenz: Hapten design and validation studies. <i>Analytica Chimica Acta</i> , 2007, 589, 142-149. | 5.4 | 20 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Preparation of an $\hat{\pm}$ -aminophosphonate cation equivalent and its reaction with organoboranes. <i>Tetrahedron Letters</i> , 1994, 35, 6421-6424. | 1.4 | 16 |
| 30 | Synthesis of Nucleoside Dimers Bridged on Ribose with a Butadiynyl Group. <i>Organic Letters</i> , 2003, 5, 383-385. | 4.6 | 16 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Rational design, synthesis, and photophysics of dual-emissive deoxyadenosine analogs. <i>Dyes and Pigments</i> , 2019, 170, 107553. | 3.7 | 12 |
| 35 | 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 |
| 36 | t-Butyldimethylsilyloxymethyl group, a versatile protecting group of adenine. <i>Tetrahedron Letters</i> , 1996, 37, 7833-7836. | 1.4 | 10 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | A turn-on dual emissive nucleobase sensitive to mismatches and duplex conformational changes. <i>RSC Advances</i> , 2016, 6, 87142-87146. | 3.6 | 9 |
| 41 | Intermolecular dark resonance energy transfer (DRET): upgrading fluorogenic DNA sensing. <i>Nucleic Acids Research</i> , 2021, 49, e72-e72. | 14.5 | 9 |
| 42 | 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 |
| 43 | 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 |
| 44 | 8-Modified-2-Deoxyadenosine Analogues Induce Delayed Polymerization Arrest during HIV-1 Reverse Transcription. <i>PLoS ONE</i> , 2011, 6, e27456. | 2.5 | 8 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 3-ethynyl and 2-deoxy-3-ethynyl adenosines: first 3-ethynyl-branched-adenosines substrates of adenosine deaminase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 139-141. | 2.2 | 5 |
| 50 | 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 |
| 51 | Imidazo[2,1-b]benzothiazol Derivatives as Potential Allosteric Inhibitors of the Glucocorticoid Receptor. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 339-344. | 2.8 | 4 |
| 52 | 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 |
| 53 | Control of Intermolecular Photoinduced Electron Transfer in Deoxyadenosine-Based Fluorescent Probes. <i>Chemistry - A European Journal</i> , 2021, 27, 1364-1373. | 3.3 | 4 |
| 54 | A novel selective reagent of thiols and selenols.. <i>Tetrahedron Letters</i> , 1993, 34, 3291-3292. | 1.4 | 3 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | Radical cyclisation mediates the synthesis of a new base-ribose carbon bridged adenosine. <i>Tetrahedron Letters</i> , 2004, 45, 4013-4015. | 1.4 | 2 |
| 57 | 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 |
| 58 | 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 |
| 59 | Efficient Synthesis of 1- and 2-Deoxy-heteroaryl-nucleosides. <i>Synlett</i> , 2008, 2008, 1225-1229. | 1.8 | 1 |