

# Byron W Purse

## List of Publications by Year in descending order

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37  
papers

930  
citations

430874

18  
h-index

454955

30  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleoside analogue inhibitors for Zika virus infection. , 2021, , 385-396.		0
2	Single-molecule fluorescence detection of a tricyclic nucleoside analogue. Chemical Science, 2021, 12, 2623-2628.	7.4	16
3	Structure-based design of guanosine analogue inhibitors targeting GTP cyclohydrolase IB towards a new class of antibiotics. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126818.	2.2	0
4	Fluorescent Tricyclic Cytidine Analogues as Substrates for Retroviral Reverse Transcriptases. ChemPlusChem, 2020, 85, 855-865.	2.8	1
5	Activity of Selected Nucleoside Analogue ProTides against Zika Virus in Human Neural Stem Cells. Viruses, 2019, 11, 365.	3.3	10
6	2H NMR reveals liquid state-like dynamics of arene guests inside hexameric pyrogallol[4]arene capsules in the solid state. Organic Chemistry Frontiers, 2019, 6, 1361-1366.	4.5	1
7	Electronic Modifications of Fluorescent Cytidine Analogues Control Photophysics and Fluorescent Responses to Base Stacking and Pairing. Chemistry - A European Journal, 2019, 25, 1249-1259.	3.3	19
8	Synthesis of Fluorescence Turn-On DNA Hybridization Probe Using the DEA tC 2â€²â€²Deoxycytidine Analog. Current Protocols in Nucleic Acid Chemistry, 2018, 75, e59.	0.5	2
9	Development and Validation of a Phenotypic High-Content Imaging Assay for Assessing the Antiviral Activity of Small-Molecule Inhibitors Targeting Zika Virus. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	22
10	Zika Viral Polymerase: a promising therapeutic target. FASEB Journal, 2018, 32, 650.2.	0.5	0
11	Fluorescence Turn-On Sensing of DNA Duplex Formation by a Tricyclic Cytidine Analogue. Journal of the American Chemical Society, 2017, 139, 1372-1375.	13.7	57
12	Mechanically induced pyrogallol[4]arene hexamer assembly in the solid state extends the scope of molecular encapsulation. Chemical Science, 2017, 8, 7737-7745.	7.4	17
13	Guest loading, chromatographic purification and controlled release from kinetically trapped, hydrogen-bonded pyrogallol[4]arene capsules. Supramolecular Chemistry, 2014, 26, 517-520.	1.2	8
14	Functionalized Tricyclic Cytosine Analogues Provide Nucleoside Fluorophores with Improved Photophysical Properties and a Range of Solvent Sensitivities. Chemistry - A European Journal, 2014, 20, 2010-2015.	3.3	22
15	Direct detection of biomolecules in liquid media using piezoelectric rotational mode disk resonators. , 2012, , .		5
16	Real-time bio-sensing using micro-channel encapsulated thermal-piezoresistive rotational mode disk resonators. , 2012, , .		5
17	Molecular Encapsulation in Pyrogallolarene Hexamers Under Nonequilibrium Conditions. Journal of the American Chemical Society, 2012, 134, 15000-15009.	13.7	39
18	Surface functionalization and monolayer formation on silicon resonant nanoballances. , 2011, , .		3

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19	Efficient Loading and Kinetic Trapping of Hexameric Pyrogallolarene Capsules in Solution. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2244-2248.	13.8	33
20	Effect of transition metal ions on the fluorescence and Taq-catalyzed polymerase chain reaction of tricyclic cytidine analogs. <i>Analytical Biochemistry</i> , 2011, 416, 53-60.	2.4	4
21	Mechanisms by Which Human DNA Primase Chooses To Polymerize a Nucleoside Triphosphate. <i>Biochemistry</i> , 2010, 49, 727-735.	2.5	20
22	Incorporation of the Fluorescent Ribonucleotide Analogue tCTP by T7 RNA Polymerase. <i>Analytical Chemistry</i> , 2010, 82, 1082-1089.	6.5	46
23	Specific tetramethylammonium recognition drives general anion positioning in tandem sites of a deep cavitand. <i>New Journal of Chemistry</i> , 2010, 34, 1097.	2.8	11
24	Ambivalent Incorporation of the Fluorescent Cytosine Analogues tC and tCo by Human DNA Polymerase $\beta$ and Klenow Fragment. <i>Biochemistry</i> , 2009, 48, 7547-7555.	2.5	38
25	High Density Labeling of Polymerase Chain Reaction Products with the Fluorescent Base Analogue tCo. <i>Analytical Chemistry</i> , 2009, 81, 9079-9085.	6.5	25
26	Synthesis of New Hybrid Hydroquinone/Cobalt Schiff Base Catalysts: Efficient Electron Transfer Mediators in Aerobic Oxidation. <i>Chemistry - A European Journal</i> , 2008, 14, 7500-7503.	3.3	50
27	Aerobic Oxidations Catalyzed by Zeolite-Encapsulated Cobalt Salophen. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 1807-1815.	4.3	14
28	Interaction Energies and Dynamics of Acid-Base Pairs Isolated in Cavitands. <i>Journal of Organic Chemistry</i> , 2008, 73, 6480-6488.	3.2	22
29	Self-fulfilling cavitands: Packing alkyl chains into small spaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2530-2534.	7.1	59
30	Functional Cavitands: Chemical Reactivity in Structured Environments. <i>ChemInform</i> , 2005, 36, no.	0.0	0
31	Functional cavitands: Chemical reactivity in structured environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10777-10782.	7.1	153
32	A Deep Cavitand Provides a Structured Environment for the Menshutkin Reaction. <i>Journal of the American Chemical Society</i> , 2005, 127, 11222-11223.	13.7	68
33	Encapsulation of oligoethylene glycols and perfluoro-n-alkanes in a cylindrical host molecule. <i>Chemical Communications</i> , 2005, , 722.	4.1	18
34	Reactivity and Molecular Recognition: Amine Methylation by an Introverted Ester. <i>Journal of the American Chemical Society</i> , 2003, 125, 14682-14683.	13.7	66
35	Resorcin[6]arene as a building block for tubular crystalline state architectures. <i>Chemical Communications</i> , 2002, , 2612.	4.1	25
36	Synthesis of a $\beta$ -1,2-Mannopyranosyl Tetrasaccharide Found in the Phosphomannan Antigen of <i>Candida albicans</i> . <i>Organic Letters</i> , 2000, 2, 2939-2942.	4.6	41

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37	Synthesis of new resorcinarene-based molecular clips. , 0 , , .		0