

Byron W Purse

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2419637/publications.pdf>

Version: 2024-02-01

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	Functional cavitands: Chemical reactivity in structured environments. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10777-10782.	7.1	153
2	A Deep Cavitand Provides a Structured Environment for the Menschutkin Reaction. Journal of the American Chemical Society, 2005, 127, 11222-11223.	13.7	68
3	Reactivity and Molecular Recognition: A Amine Methylation by an Introverted Ester. Journal of the American Chemical Society, 2003, 125, 14682-14683.	13.7	66
4	Self-fulfilling cavitands: Packing alkyl chains into small spaces. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2530-2534.	7.1	59
5	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
6	Synthesis of New Hybrid Hydroquinone/Cobalt Schiff Base Catalysts: Efficient Electron Transfer Mediators in Aerobic Oxidation. Chemistry - A European Journal, 2008, 14, 7500-7503.	3.3	50
7	Incorporation of the Fluorescent Ribonucleotide Analogue tCTP by T7 RNA Polymerase. Analytical Chemistry, 2010, 82, 1082-1089.	6.5	46
8	Synthesis of a 2,2-Mannopyranosyl Tetrasaccharide Found in the Phosphomannan Antigen of Candida albicans. Organic Letters, 2000, 2, 2939-2942.	4.6	41
9	Molecular Encapsulation in Pyrogallolarene Hexamers Under Nonequilibrium Conditions. Journal of the American Chemical Society, 2012, 134, 15000-15009.	13.7	39
10	Ambivalent Incorporation of the Fluorescent Cytosine Analogues tC and tCo by Human DNA Polymerase α and Klenow Fragment. Biochemistry, 2009, 48, 7547-7555.	2.5	38
11	Efficient Loading and Kinetic Trapping of Hexameric Pyrogallolarene Capsules in Solution. Angewandte Chemie - International Edition, 2011, 50, 2244-2248.	13.8	33
12	Resorcin[6]arene as a building block for tubular crystalline state architectures. Chemical Communications, 2002, , 2612.	4.1	25
13	High Density Labeling of Polymerase Chain Reaction Products with the Fluorescent Base Analogue tCo. Analytical Chemistry, 2009, 81, 9079-9085.	6.5	25
14	Interaction Energies and Dynamics of Acid-Base Pairs Isolated in Cavitands. Journal of Organic Chemistry, 2008, 73, 6480-6488.	3.2	22
15	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
16	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
17	Mechanisms by Which Human DNA Primase Chooses To Polymerize a Nucleoside Triphosphate. Biochemistry, 2010, 49, 727-735.	2.5	20
18	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

#	ARTICLE	IF	CITATIONS
19	Encapsulation of oligoethylene glycols and perfluoro-n-alkanes in a cylindrical host molecule. <i>Chemical Communications</i> , 2005, , 722.	4.1	18
20	Mechanically induced pyrogallol[4]arene hexamer assembly in the solid state extends the scope of molecular encapsulation. <i>Chemical Science</i> , 2017, 8, 7737-7745.	7.4	17
21	Single-molecule fluorescence detection of a tricyclic nucleoside analogue. <i>Chemical Science</i> , 2021, 12, 2623-2628.	7.4	16
22	Aerobic Oxidations Catalyzed by Zeolite-Encapsulated Cobalt Salophen. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 1807-1815.	4.3	14
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	Activity of Selected Nucleoside Analogue ProTides against Zika Virus in Human Neural Stem Cells. <i>Viruses</i> , 2019, 11, 365.	3.3	10
25	Guest loading, chromatographic purification and controlled release from kinetically trapped, hydrogen-bonded pyrogallol[4]arene capsules. <i>Supramolecular Chemistry</i> , 2014, 26, 517-520.	1.2	8
26	Direct detection of biomolecules in liquid media using piezoelectric rotational mode disk resonators. , 2012, , .		5
27	Real-time bio-sensing using micro-channel encapsulated thermal-piezoresistive rotational mode disk resonators. , 2012, , .		5
28	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
29	Surface functionalization and monolayer formation on silicon resonant nanoballances. , 2011, , .		3
30	Synthesis of Fluorescence Turn-On DNA Hybridization Probe Using the DEA tC 2â€²â€²-Deoxycytidine Analog. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2018, 75, e59.	0.5	2
31	² H NMR reveals liquid state-like dynamics of arene guests inside hexameric pyrogallol[4]arene capsules in the solid state. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1361-1366.	4.5	1
32	Fluorescent Tricyclic Cytidine Analogues as Substrates for Retroviral Reverse Transcriptases. <i>ChemPlusChem</i> , 2020, 85, 855-865.	2.8	1
33	Functional Cavitands: Chemical Reactivity in Structured Environments. <i>ChemInform</i> , 2005, 36, no.	0.0	0
34	Structure-based design of guanosine analogue inhibitors targeting GTP cyclohydrolase IB towards a new class of antibiotics. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 126818.	2.2	0
35	Nucleoside analogue inhibitors for Zika virus infection. , 2021, , 385-396.		0
36	Synthesis of new resorcinarene-based molecular clips. , 0, , .		0

#	ARTICLE	IF	CITATIONS
37	Zika Viral Polymerase: a promising therapeutic target. FASEB Journal, 2018, 32, 650.2.	0.5	0