Craig S Wilcox

List of Publications by Year
in descending order

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78 papers	4,853 citations	109321 35 h-index	91884 69 g-index
83 all docs	83 docs citations	83 times ranked	3301 citing authors

#	Article	IF	Citations
1	Photonic Crystal Carbohydrate Sensors:Â Low Ionic Strength Sugar Sensing. Journal of the American Chemical Society, 2003, 125, 3322-3329.	13.7	473
2	High Ionic Strength Glucose-Sensing Photonic Crystal. Analytical Chemistry, 2003, 75, 2316-2323.	6.5	386
3	Measurements of Molecular Electrostatic Field Effects in Edge-to-Face Aromatic Interactions and CH-Ï€ Interactions with Implications for Protein Folding and Molecular Recognition. Journal of the American Chemical Society, 1998, 120, 11192-11193.	13.7	347
4	Enantioselective and diastereoselective molecular recognition of neutral molecules. Chemical Society Reviews, 1993, 22, 383.	38.1	261
5	Chemistry of synthetic receptors and functional group arrays. 10. Orderly functional group dyads. Recognition of biotin and adenine derivatives by a new synthetic host. Journal of the American Chemical Society, 1989, 111, 8055-8057.	13.7	188
6	The total synthesis of ionophore antibiotics. A convergent synthesis of lasalocid A (X537A). Journal of the American Chemical Society, 1983, 105, 1988-2006.	13.7	163
7	Ion pair binding by a urea in chloroform solution.. Tetrahedron Letters, 1992, 33, 6085-6088.	1.4	155
8	Chemistry of synthetic receptors and functional group arrays. 15. The effects of added water on thermodynamic aspects of hydrogen bond based molecular recognition in chloroform. Journal of the American Chemical Society, 1991, 113, 678-680.	13.7	131
9	New approaches to synthetic receptors. Synthesis and host properties of a water soluble macrocyclic analog of TrÃ¶ger's base. Tetrahedron Letters, 1986, 27, 5563-5566.	1.4	118
10	Experimental and theoretical studies of substituent effects in hydrogen bond based molecular recognition of a zwitterion by substituted arylureas. Tetrahedron, 1995, 51, 621-634.	1.9	116
11	Chemistry of synthetic receptors and functional group arrays. 18. Approaches to quantitative supramolecular chemistry. Hydrogen-bond-based molecular recognition phenomena and sigmoidal behavior in multicomponent mixtures. Journal of the American Chemical Society, 1992, 114, 10189-10197.	13.7	108
12	Molecular recognition in aqueous media. Conformationally restricted water-soluble cyclophanes derived from 6H,12H-5,11-methanodibenzo[b,f][1,5]diazocine. Journal of the American Chemical Society, 1988, 110, 6204-6210.	13.7	99
13	Chemistry of synthetic receptors and functional group arrays. 19. General effects of binding site water exclusion on hydrogen bond based molecular recognition systems: a closed binding site is less affected by environmental changes than an open site. Journal of the American Chemical Society, 1992, 114, 1398-1403.	13.7	99
14	Chemistry of synthetic receptors and functional group arrays. 16. Enantioselective and diastereoselective molecular recognition of alicyclic substrates in aqueous media by a chiral, resolved synthetic receptor. Journal of the American Chemical Society, 1991, 113, 8554-8555.	13.7	97
15	A new approach to c-glycoside congeners: Metal carbene mediated methylenation of aldonolactones.. Tetrahedron Letters, 1984, 25, 395-398.	1.4	96
16	New syntheses of carbocycles from carbohydrates. Cyclization of radicals derived from unsaturated halo sugars. Journal of Organic Chemistry, 1985, 50, 546-547.	3.2	92
17	New approaches to enzyme regulators. Synthesis and enzymological activity of carbocyclic analogs of D-fructofuranose and D-fructofuranose-6-phosphate. Journal of the American Chemical Society, 1986, 108, 3102-3104.	13.7	92
18	A Minimal Protein Folding Model To Measure Hydrophobic and CHâ€“Ï€ Effects on Interactions between Nonpolar Surfaces in Water. Angewandte Chemie - International Edition, 2007, 46, 6833-6836.	13.8	83

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19	Total Synthesis of a 28-Member Stereoisomer Library of Murisolins. Journal of the American Chemical Society, 2006, 128, 9561-9573.	13.7	79
20	Chemistry of synthetic receptors and functional group arrays. 7. Molecular armatures. Synthesis and structure of Troeger's base analogs derived from 4-, 2,4-, 3,4-, and 2,4,5-substituted aniline derivatives. Journal of Organic Chemistry, 1988, 53, 98-104.	3.2	75
21	Synthesis of chiral molecular clefts. New armatures for biomimetic systems. Journal of the American Chemical Society, 1987, 109, 1865-1867.	13.7	74
22	TrÃ¶ger's base analogs. New structural units for the preparation of chiral hosts and metal ligands.. Tetrahedron Letters, 1985, 26, 5749-5752.	1.4	73
23	Improved synthesis of symmetrical and unsymmetrical 5,11-methanodibenzo[b,f][1,5]diazocines. Readily available nanoscale structural units. Journal of Organic Chemistry, 1990, 55, 363-365.	3.2	71
24	Total synthesis of lasalocid A (X537A). Journal of the American Chemical Society, 1980, 102, 1155-1157.	13.7	70
25	An efficient method for the preparation of furanoid and pyranoid glycals. Journal of Organic Chemistry, 1978, 43, 786-787.	3.2	63
26	Precipitonsâ€"Functional Protecting Groups to Facilitate Product Separation: Applications in Isoxazoline Synthesis. Angewandte Chemie - International Edition, 2001, 40, 1875-1879.	13.8	63
27	Chemistry of F1,F0-ATPase inhibitors. Stereoselective total syntheses of (+)-citreoviral and (-)-citreoviridin. Journal of the American Chemical Society, 1988, 110, 470-481.	13.7	59
28	Stereoselective preparations of ribofuranosyl chlorides and ribofuranosyl acetates.Solvent effects and stereoselectivity in the reaction of ribofuranosyl acetates with trimethylallylsilane. Tetrahedron Letters, 1986, 27, 1011-1014.	1.4	58
29	Use of Precipitons for Copper Removal in Atom Transfer Radical Polymerization. Macromolecules, 2002, 35, 4849-4851.	4.8	57
30	Thermodynamic results for geometrical isomerism in silyl ketene acetals. Journal of Organic Chemistry, 1984, 49, 1451-1453.	3.2	51
31	Inhibition of Hepatoma Cell Growth in Vitro by Arylating and Non-arylating K Vitamin Analogs. Journal of Biological Chemistry, 1999, 274, 34803-34810.	3.4	43
32	A concise approach to enantiomerically pure carbocyclic ribose analogs. Synthesis of (4S,5R,6R,7R)-7-(hydroxymethyl)spiro[2.4]heptane-4,5,6-triol 7-O-(dihydrogen phosphate). Journal of the American Chemical Society, 1990, 112, 4374-4380.	13.7	39
33	The generation of C-glycosides through the enolate Claisen rearrangement. Canadian Journal of Chemistry, 1979, 57, 1743-1745.	1.1	38
34	Solution-Phase Parallel Synthesis with Oligoethylene Glycol Sorting Tags. Preparation of All Four Stereoisomers of the Hydroxybutenolide Fragment of Murisolin and Related Acetogenins. Journal of Organic Chemistry, 2006, 71, 3599-3607.	3.2	37
35	A convenient synthesis of bis-dialkylaminoacetylenes. Tetrahedron Letters, 1980, 21, 3241-3242.	1.4	36
36	Synthetic receptors. 3,6-anhydro-7-benzenesulfonamido-1,7-dideoxy-4,5-O-isopropylidene-D-altro-hept-1-ynitol: a useful component for the preparation of chiral water-soluble cyclophanes based on carbohydrate precursors. Journal of Organic Chemistry, 1988, 53, 463-471.	3.2	36

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37	Conformation of cyclic peptides. VII. Cyclic hexapeptides containing the D-Phe-L-Pro sequence. Journal of the American Chemical Society, 1973, 95, 6090-6096.	13.7	35
38	Insight into the unusual reactions of stabilized phosphorus ylides with lactols. A specific intramolecular hydroxyl group effect leads to high z-selectivity.. Tetrahedron Letters, 1988, 29, 6823-6826.	1.4	33
39	A Photoactivated Precipiton for Reagent Sequestration in Solution-Phase Synthesis. Journal of the American Chemical Society, 2002, 124, 4194-4195.	13.7	33
40	Synthesis of Dibenzazepinones by Palladium-Catalyzed Intramolecular Arylation of o-(2â€²-Bromophenyl)anilide Enolates. Journal of Organic Chemistry, 2010, 75, 6445-6451.	3.2	33
41	New approaches to synthetic receptors. Studies on the synthesis and properties of macrocyclic C-glycosyl compounds as chiral, water-soluble cyclophanes. Carbohydrate Research, 1987, 171, 141-160.	2.3	29
42	Precipiton Reagents:â€‰ Precipiton Phosphines for Solution-Phase Reductions. Organic Letters, 2004, 6, 2321-2324.	4.6	29
43	Stereoselective formation of silylketene acetals from esters and trialkylsilyl perchlorates.. Tetrahedron Letters, 1984, 25, 699-702.	1.4	28
44	Substituent effects in [3,3]-sigmatropic rearrangements. Alkyl group effects and transition-state syn-diaxial interactions. Journal of the American Chemical Society, 1986, 108, 6636-6642.	13.7	28
45	Substrate-Specific Catalysis by Ion Pairs. Angewandte Chemie International Edition in English, 1993, 32, 1648-1650.	4.4	26
46	Theoretical and Experimental Studies of Biotin Analogues That Bind Almost as Tightly to Streptavidin as Biotin. Journal of Organic Chemistry, 2002, 67, 1827-1837.	3.2	25
47	Solution-Phase Mixture Synthesis with Double-Separation Tagging: Double Demixing of a Single Mixture Provides a Stereoisomer Library of 16 Individual Murisolins. Angewandte Chemie - International Edition, 2005, 44, 6938-6940.	13.8	25
48	Effect of citreoviridin and isocitreoviridin on beef heart mitochondrial ATPase. Archives of Biochemistry and Biophysics, 1989, 270, 714-721.	3.0	24
49	Syntheses of bicyclo[3.3.0]octanes via bifurcating radical cyclization pathways. Journal of Organic Chemistry, 1990, 55, 3440-3442.	3.2	24
50	Precipiton strategies applied to the isolation of Î±-substituted Î²-ketoesters. Tetrahedron Letters, 2001, 42, 4309-4312.	1.4	23
51	Design and Synthesis of a Novel Cyclophane as Host for Aryl Phosphate. Heterocycles, 2002, 57, 515.	0.7	23
52	A general approach to carbocyclic sugar analogs: preparation of a carbocyclic analog of Î²-d-fructofuranose. Carbohydrate Research, 1990, 206, 233-250.	2.3	22
53	The molecular structure of an O-silyl ketene acetal. Tetrahedron Letters, 1989, 30, 447-450.	1.4	21
54	New and efficient synthesis of 6-deoxy-L-gulose. Journal of Organic Chemistry, 1980, 45, 197-202.	3.2	20

#	Article	IF	Citations
55	Selectivity in molecular recognition of steroids, alkanes and alicyclic substrates in aqueous media. Supramolecular Chemistry, 1993, 1, 129-137.	1.2	20
56	The chemistry of functional group arrays. Electrostatic catalysis and the â€œintramolecular salt effectâ€•. Tetrahedron, 1991, 47, 2617-2628.	1.9	19
57	Benzil-Tethered Precipitons for Controlling Solubility:Â A Round-Trip Energy-Transfer Mechanism in the Isomerization of Extended Stilbene Analogues. Journal of the American Chemical Society, 2007, 129, 3966-3972.	13.7	19
58	Antitumor and anticarcinogenic actions of Cpd 5: a new class of protein phosphatase inhibitor. Carcinogenesis, 2003, 24, 411-416.	2.8	18
59	Oligomeric ethylene glycols as sorting tags for parallel and combinatorial mixture synthesis. Tetrahedron Letters, 2005, 46, 1827-1829.	1.4	18
60	The intramolecular salt effect in chiral auxiliaries. Enhanced diastereoselectivity in a nitrile oxide cycloaddition via rational transition state stabilization. Tetrahedron Letters, 1999, 40, 1285-1288.	1.4	16
61	A Cdc25A Antagonizing K Vitamin Inhibits Hepatocyte DNA Synthesis in Vitro and in Vivo. Journal of Molecular Biology, 2003, 326, 721-735.	4.2	16
62	The chemistry of synthetic receptors and functional group arrays. 13. The intramolecular salt effect. Journal of Organic Chemistry, 1990, 55, 5675-5678.	3.2	14
63	A Mild Synthesis of Unsymmetrical Bisalkoxysilanes through Catalyzed Alcoholysis of Hydridosilanes Containing Câ•C Multiple Bonds and Aryl Halides. Journal of Organic Chemistry, 2010, 75, 253-256.	3.2	14
64	Chemistry of synthetic receptors and functional group arrays. 17. The intramolecular salt effect. An acrylate ester bearing an ion pair shows enhanced rates and stereoselectivity in a nitrone cycloaddition. Journal of the American Chemical Society, 1991, 113, 7412-7414.	13.7	13
65	A novel precipitating auxiliary approach to the purification of Baylisâ€“Hillman adducts. Chemical Communications, 2001, , 1618-1619.	4.1	13
66	Rotational Isomers of N-Methyl-N-arylacetamides and Their Derived Enolates: Implications for Asymmetric Hartwig Oxindole Cyclizations. Journal of Organic Chemistry, 2013, 78, 4083-4089.	3.2	12
67	An approach to lipophilic nucleotide phosphate analogs. Tetrahedron Letters, 1988, 29, 2615-2618.	1.4	10
68	Copper Removal in Atom Transfer Radical Polymerization. ACS Symposium Series, 2003, , 250-266.	0.5	10
69	Synthesis and NMR Analysis of a Conformationally Controlled Î²-Turn Mimetic Torsion Balance. Journal of Organic Chemistry, 2017, 82, 898-909.	3.2	10
70	Intramolecularly Sensitized Precipitons:Â A Model System for Application to Metal Sequestration. Journal of the American Chemical Society, 2006, 128, 250-256.	13.7	5
71	Designing Synthetic Receptors for Shape-Selective Hydrophobic Binding. ACS Symposium Series, 1994, , 282-290.	0.5	3
72	A Molecular Torsion Balance Study: A Nearby Anionic Group Exerts Little Influence on Hydrophobic Interactions between Nonpolar Surfaces. Chemistry - A European Journal, 2019, 25, 14010-14014.	3.3	3

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73	Inhibition of rat liver regeneration after partial hepatectomy and induction of ERK phosphorylation by Cpd 5, a K vitamin-based anticancer compound. Carcinogenesis, 2004, 25, 2345-2351.	2.8	2
74	Asymmetric solution-phase mixture aldol reaction using oligomeric ethylene glycol tagged chiral oxazolidinones. Tetrahedron Letters, 2017, 58, 2031-2033.	1.4	2
75	Molecular Recognition of Acetylaminofluorene-and Aminofluorene-modified Guanosine. Supramolecular Chemistry, 2000, 11, 201-215.	1.2	1
76	Progress in the optimization of chiral cyclophane synthetic receptors for shape selective molecular recognition in aqueous media through hydrophobic association. Journal of Chemical Sciences, 1994, 106, 955-970.	1.5	1
77	Model systems. Current Opinion in Chemical Biology, 1998, 2, 709-710.	6.1	0
78	ç¥žçµŒèŠ½è…«ã«å¯¾ã™ã‚‹ç´°èƒžå†…ã‚·ã‚°ãƒŠãƒ«ä¼é”æ©Ÿæ§‹ã«é–¢ä¸Žã™ã‚‹è–¬å‰¤ã®é–‹ç™º (ç¬¬2å±). Japanese Journal of Clinic	0.1	0