

Donald J Wink

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125
papers

1,886
citations

24
h-index

37
g-index

141
ext. papers

2,148
ext. citations

5.7
avg, IF

4.9
L-index

#	Paper	IF	Citations
125	Inquiry-based and research-based laboratory pedagogies in undergraduate science. <i>Nature Chemical Biology</i> , 2008 , 4, 577-80	11.7	176
124	On the use of 3,5-O-benzylidene and 3,5-O-(di-tert-butylsilylene)-2-O-benzylarabinothiofuranosides and their sulfoxides as glycosyl donors for the synthesis of beta-arabinofuranosides: importance of the activation method. <i>Journal of Organic Chemistry</i> , 2007 , 72, 1553-65	4.2	101
123	Cluster-seeded synthesis of doped CdSe:Cu ₄ quantum dots. <i>ACS Nano</i> , 2013 , 7, 3190-7	16.7	68
122	Direct synthesis of beta-mannans. A hexameric [→3)-beta-D-Man-(1)(3) subunit of the antigenic polysaccharides from <i>Leptospira biflexa</i> and the octameric (1→2)-linked beta-D-mannan of the <i>Candida albicans</i> phospholipomannan. X-ray crystal structure of a protected tetramer. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5826-8	16.4	64
121	Practical syntheses of chelating bis(dioxaphospholane) ligands through chlorodioxaphospholane intermediates and demonstration of catalytic competence of bis(phosphite)rhodium cation. <i>Inorganic Chemistry</i> , 1990 , 29, 5006-5008	5.1	63
120	Preparation and rearrangement of N-vinyl nitrones: synthesis of spiroisoxazolines and fluorene-tethered isoxazoles. <i>Organic Letters</i> , 2012 , 14, 5180-3	6.2	61
119	Characterization and application of catalytic regioselective hydroformylation with a cationic bis(dioxaphospholane)rhodium catalyst precursor. <i>Organometallics</i> , 1993 , 12, 1954-1959	3.8	60
118	Highly regiocontrolled Pd-catalyzed cross-coupling reaction of terminal alkynes and allenylphosphine oxides. <i>Journal of Organic Chemistry</i> , 2003 , 68, 6251-6	4.2	48
117	Solvent-controlled bifurcated cascade process for the selective preparation of dihydrocarbazoles or dihydropyridoindoles. <i>Chemistry - A European Journal</i> , 2014 , 20, 13217-25	4.8	45
116	Stereoselective formation of glycosyl sulfoxides and their subsequent equilibration: ring inversion of an alpha-xylopyranosyl sulfoxide dependent on the configuration at sulfur. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6028-36	16.4	45
115	Rh(II)-Catalyzed Ring Expansion of Cyclobutanol-Substituted Aryl Azides To Access Medium-Sized N-Heterocycles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5031-5034	16.4	44
114	Drug binding by branched DNA: selective interaction of tetrapyridyl porphyrins with an immobile junction. <i>Biochemistry</i> , 1990 , 29, 1614-24	3.2	40
113	Single-Step Modular Synthesis of Unsaturated Morpholine N-Oxides and Their Cycloaddition Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3059-3063	16.4	38
112	Facile Synthesis of Azetidine Nitrones and Diastereoselective Conversion into Densely Substituted Azetidines. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11579-11583	16.4	38
111	Stereoselective sulfoxidation of β-mannopyranosyl thioglycosides: the exo-anomeric effect in action. <i>Chemical Communications</i> , 1998 , 2763-2764	5.8	38
110	Structure and reactivity of alkynyl ruthenium alkylidenes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 24-5	16.4	34
109	Pyridine group assisted addition of diazo-compounds to imines in the 3-CC reaction of 2-aminopyridines, aldehydes, and diazo-compounds. <i>Organic Letters</i> , 2013 , 15, 956-9	6.2	30

108	Structure and reactivity of alkyne-chelated ruthenium alkylidene complexes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15114-5	16.4	29
107	TiCl ₄ -promoted multicomponent reaction: a new entry to functionalized alpha-amino acids. <i>Organic Letters</i> , 2005 , 7, 7-10	6.2	29
106	Reinvestigation of the reaction of tert-butyllithium with uranium tetrachloride: formation of catalytically active uranium(III) hydride complexes. <i>Inorganic Chemistry</i> , 1982 , 21, 2565-2573	5.1	29
105	Catalytic Asymmetric Synthesis of Dihydropyrido[1,2-a]indoles from Nitrones and Allenates. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9183-6	16.4	27
104	A new reactivity mode for the diazo group: diastereoselective 1,3-aminoalkylation reaction of alpha-amino-diazoesters to give triazolines. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9021-5	16.4	27
103	Synthesis of N-styrenyl amidines from alpha-unsaturated nitrones and isocyanates through CO ₂ elimination and styrenyl migration. <i>Organic Letters</i> , 2014 , 16, 3696-9	6.2	26
102	Copper-Catalyzed Formation of alpha-Alkoxyalkenones from N-Tosylhydrazones. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12942-6	16.4	25
101	Cascade Synthesis of 3-Functionalized Indoles from Nitrones and Their Conversion to Cycloheptanone-Fused Indoles. <i>Journal of Organic Chemistry</i> , 2018 , 83, 1085-1094	4.2	21
100	Development of a biochemistry laboratory course with a project-oriented goal. <i>Biochemistry and Molecular Biology Education</i> , 2003 , 31, 106-112	1.3	19
99	Au-Catalyzed Pentannulation Reaction of Propargylic Esters Occurring at C(sp ³)-H Site. <i>Organic Letters</i> , 2015 , 17, 4062-5	6.2	18
98	Template-directed C-H activation: development and application to the total synthesis of 7-episordidin. <i>Tetrahedron: Asymmetry</i> , 2003 , 14, 929-940		18
97	Stereoselective construction of quaternary carbon centers by three component coupling reactions. <i>Tetrahedron Letters</i> , 2000 , 41, 8425-8429	2	18
96	Absence of Diffusively Free Radical Cation Intermediates in Reactions of alpha-(Phosphatoxy)alkyl Radicals. <i>Journal of the American Chemical Society</i> , 1998 , 120, 211-212	16.4	18
95	Charge dependence of Fe(II)-catalyzed DNA cleavage. <i>Nucleic Acids Research</i> , 1990 , 18, 3333-7	20.1	18
94	Qualitative molecular orbital studies of d ⁶ M(alkyne) ₂ L ₂ and M(alkyne) ₃ L complexes. <i>Organometallics</i> , 1990 , 9, 328-334	3.8	18
93	Steric factors in neutral and anionic alkyne complexes of tungsten(0). <i>Organometallics</i> , 1991 , 10, 494-500	3.8	18
92	Alder-ene reactions driven by high steric strain and bond angle distortion to form benzocyclobutenes. <i>Chemical Science</i> , 2019 , 10, 2212-2217	9.4	17
91	Oxidation of Nonactivated Anilines to Generate para-Aryl Nitrenoids. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4456-4463	16.4	17

90	Sequential reactions of trimethylsilyldiazomethane with 4-alkenyl ketones and aldehydes catalyzed by Lewis bases. <i>Organic Letters</i> , 2013 , 15, 2974-7	6.2	17
89	Diverging Effects of Steric Congestion on the Reaction of Tributylstannyl Radicals with Areneselenols and Aryl Bromides and Their Mechanistic Implications. <i>Journal of Organic Chemistry</i> , 1999 , 64, 2877-2882	4.2	17
88	Stereochemistry of [2 + 2] photocycloaddition of cyclic enones to alkenes: structural and mechanistic considerations in formation of trans-fused cycloadducts. <i>Journal of Organic Chemistry</i> , 1991 , 56, 561-567	4.2	17
87	Achieving Site Selectivity in Metal-Catalyzed Electron-Rich Carbene Transfer Reactions from N-Tosylhydrazones. <i>Organic Letters</i> , 2017 , 19, 3990-3993	6.2	16
86	Radical contraction of 1,3,2-dioxaphosphhepanes to 1,3,2-dioxaphosphorinanes: a kinetic and (17)O NMR spectroscopic study. <i>Journal of Organic Chemistry</i> , 2002 , 67, 3360-4	4.2	16
85	Isolation and characterization of a labile intermediate in the nucleophilic attack of hydride on a chromium diene complex: [NEt ₄][Cr(CO) ₃ (P(OMe) ₃)(η -3-(Z)-MeCHCHCH ₂)]. <i>Organometallics</i> , 1990 , 9, 335-340	3.8	16
84	Silver-Catalyzed Annulation of Arynes with Nitriles for Synthesis of Structurally Diverse Quinazolines. <i>Organic Letters</i> , 2020 , 22, 626-630	6.2	16
83	One- and two-electron reduction of a chromium(0) alkyne complex and isolation of the chromium(1-) product. <i>Journal of the American Chemical Society</i> , 1985 , 107, 5012-5014	16.4	15
82	Formal aminocyanation of β -unsaturated cyclic enones for the efficient synthesis of β -amino ketones. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3197-200	16.4	14
81	Student learning through journal writing in a general education chemistry course for pre-elementary education majors. <i>Science Education</i> , 2012 , 96, 543-565	4.3	14
80	Synthesis of simple CrL ₄ (alkyne) complexes by displacement of a labile cyclooctadiene ligand. <i>Journal of the American Chemical Society</i> , 1990 , 112, 8585-8586	16.4	14
79	A simple, inexpensive synthesis of dipotassium cyclooctatetraenide, K ₂ C ₈ H ₈ . <i>Journal of Organic Chemistry</i> , 1981 , 46, 3925-3928	4.2	14
78	Connecting Protein Structure to Intermolecular Interactions: A Computer Modeling Laboratory. <i>Journal of Chemical Education</i> , 2016 , 93, 1353-1363	2.4	13
77	Synthesis and Properties of New N-Heteroheptacenes for Solution-Based Organic Field Effect Transistors. <i>Chemistry - A European Journal</i> , 2017 , 23, 12542-12549	4.8	13
76	Design and synthesis of highly constrained factor Xa inhibitors: amidine-substituted bis(benzoyl)-diazepan-2-ones and bis(benzylidene)-bis(gem-dimethyl)cycloketones. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 3379-92	3.4	13
75	"Almost Like Weighing Someone's Soul": Chemistry in Contemporary Film. <i>Journal of Chemical Education</i> , 2001 , 78, 481	2.4	13
74	Synthesis of Spirocyclic 1-Pyrrolines from Nitrones and Arynes through a Dearomative [3,3']-Sigmatropic Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15244-15248	16.4	12
73	Synthesis Of Fully-Substituted Eneidyne by the Corey-Winter Reaction. <i>Synthetic Communications</i> , 1999 , 29, 359-377	1.7	12

72	Catalyst-controlled cascade synthesis of bridged bicyclic tetrahydrobenz[b]azepine-4-ones. <i>Chemical Communications</i> , 2019 , 55, 2309-2312	5.8	11
71	A New Reactivity Mode for the Diazo Group: Diastereoselective 1,3-Aminoalkylation Reaction of β -Amino- β -Diazoesters To Give Triazolines. <i>Angewandte Chemie</i> , 2014 , 126, 9167-9171	3.6	11
70	Expedient two-step synthesis of phenolic cyclitols from benzene. <i>Journal of Organic Chemistry</i> , 2006 , 71, 4521-4	4.2	10
69	Anomalous carbonylation of $[\text{Pd}(\text{dppm})(\text{O}_2\text{CCF}_3)]_2$ to give an asymmetric ECO complex. <i>Inorganica Chimica Acta</i> , 1991 , 180, 183-187	2.7	10
68	Generation and Rearrangement of N,O-Dialkenylhydroxylamines for the Synthesis of 2-Aminotetrahydrofurans. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6597-6600	16.4	9
67	Single-Step Modular Synthesis of Unsaturated Morpholine N-Oxides and Their Cycloaddition Reactions. <i>Angewandte Chemie</i> , 2017 , 129, 3105-3109	3.6	8
66	Facile Synthesis of Azetidine Nitrones and Diastereoselective Conversion into Densely Substituted Azetidines. <i>Angewandte Chemie</i> , 2017 , 129, 11737-11741	3.6	8
65	Regio- and stereospecific conversion of chromium dienes into olefins via anionic allyl complexes. <i>Organometallics</i> , 1989 , 8, 259-261	3.8	8
64	Lorenzo's Oil as a Vehicle for Teaching Chemistry Content, Processes of Science, and Sociology of Science in a General Education Chemistry Classroom. <i>Journal of Chemical Education</i> , 2011 , 88, 1380-1384	2.4	7
63	Using the Activity Model of Inquiry To Enhance General Chemistry Students' Understanding of Nature of Science. <i>Journal of Chemical Education</i> , 2011 , 88, 1041-1047	2.4	7
62	The MATCH Program: A Preparatory Chemistry and Intermediate Algebra Curriculum. <i>Journal of Chemical Education</i> , 2000 , 77, 999	2.4	7
61	Exchange of bridging and terminal hydrides in $[\text{Co}(\text{terpy})(\text{H}_2\text{BH}_2)]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1984 , 1257		7
60	C-H Insertion by Alkylidene Carbenes To Form 1,2,3-Triazines and Anionic [3 + 2] Dipolar Cycloadditions To Form Tetrazoles: Crucial Roles of Stereoelectronic and Steric Effects. <i>Organic Letters</i> , 2020 , 22, 718-723	6.2	7
59	Silver-Catalyzed Selective Multicomponent Coupling Reactions of Arynes with Nitriles and Isonitriles. <i>Organic Letters</i> , 2020 , 22, 642-647	6.2	7
58	Relating Chemistry to Healthcare and MORE: Implementation of MORE in a Survey Organic and Biochemistry Course for Prehealth Students. <i>Journal of Chemical Education</i> , 2018 , 95, 37-46	2.4	7
57	Dialysis, Albumin Binding, and Competitive Binding: A Laboratory Lesson Relating Three Chemical Concepts to Healthcare. <i>Journal of Chemical Education</i> , 2017 , 94, 1102-1106	2.4	6
56	Formal Aminocyanation of β -Unsaturated Cyclic Enones for the Efficient Synthesis of β -Amino Ketones. <i>Angewandte Chemie</i> , 2014 , 126, 3261-3264	3.6	6
55	Octahydronaphthoquinolizines, a new biologically active tetracyclic ring system. <i>Tetrahedron Letters</i> , 1993 , 34, 2067-2070	2	6

54	Efficient synthesis of substituted derivatives of (naphthalene)chromium(0) carbonyls. <i>Organometallics</i> , 1991 , 10, 336-340	3.8	6
53	Ruthenabenzene: A Robust Precatalyst. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7490-7500	16.4	6
52	Catalytic Asymmetric Synthesis of Dihydropyrido[1,2-a]indoles from Nitrones and Allenolates. <i>Angewandte Chemie</i> , 2016 , 128, 9329-9332	3.6	6
51	Controlling the Selectivity Patterns of Au-Catalyzed Cyclization-Migration Reactions. <i>Organic Letters</i> , 2019 , 21, 1555-1558	6.2	6
50	Synthesis of Spirocyclic 1-Pyrrolines from Nitrones and Arynes through a Dearomative [3,3?]-Sigmatropic Rearrangement. <i>Angewandte Chemie</i> , 2020 , 132, 15356-15360	3.6	5
49	Pennies and Eggs: Initiation into Inquiry Learning for Preservice Elementary Education Teachers. <i>Journal of Chemical Education</i> , 2008 , 85, 396	2.4	5
48	Synthesis of Oxygenated ketones and substituted catechols via the rearrangement of N-enoxy- and N-aryloxyphthalimides. <i>Tetrahedron</i> , 2017 , 73, 4125-4137	2.4	4
47	The Logic of Proportional Reasoning and Its Transfer into Chemistry. <i>ACS Symposium Series</i> , 2019 , 157-171	14	4
46	Fostering Preservice Teacher Identity in Science through a Student-Selected Project. <i>The Feminist Teacher: A Journal of the Practicesories, and Scholarship of Feminist Teaching</i> , 2008 , 19, 31-46		4
45	Generation and Rearrangement of N,O-Dialkenylhydroxylamines for the Synthesis of 2-Aminotetrahydrofurans. <i>Angewandte Chemie</i> , 2018 , 130, 6707-6710	3.6	3
44	Constructivist Frameworks in Chemistry Education and the Problem of the "Thumb in the Eye" <i>Journal of Chemical Education</i> , 2014 , 91, 617-622	2.4	3
43	Chemodivergent Transformations of Alkynyl Imines. <i>Synlett</i> , 2006 , 2006, 2325-2328	2.2	3
42	Connections Between Pedagogical and Epistemological Constructivism: Questions for Teaching and Research in Chemistry. <i>Foundations of Chemistry</i> , 2006 , 8, 111-151	0.7	3
41	Reconstructing Student Meaning: A Theory of Perspective Transformation. <i>Journal of Chemical Education</i> , 2001 , 78, 1107	2.4	3
40	Substitution reactions of mer-Cr(CO) ₃ (P(OMe) ₃)(η -4-1,5-cyclooctadiene); ligand effects on diene binding preferences. <i>Organometallics</i> , 1989 , 8, 561-562	3.8	3
39	Photochemical synthesis and thermal interconversion of mer- and fac-W(CO) ₃ (P(OMe) ₃)(η -4-1,5-cyclooctadiene). <i>Organometallics</i> , 1990 , 9, 2403-2406	3.8	3
38	A polyfunctional chromium arene complex: synthesis and derivatization of tricarbonyl(η -6-1,4-epoxy-1,2,3,4-tetrahydronaphthalene)chromium(0). <i>Organometallics</i> , 1991 , 10, 2499-2505	3.8	3
37	Structural evidence for ligand back-bonding in distortions from octahedral geometry of complexes of d ⁶ ML ₄ fragments with π -ligands. <i>Organometallics</i> , 1991 , 10, 442-447	3.8	3

36	Rh(II)-Catalyzed Intermolecular α -Aryl Aziridination of Olefins Using Nonactivated N Atom Precursors. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19149-19159	16.4	3
35	Counterion Control of t-BuO-Mediated Single Electron Transfer to Nitrostilbenes to Construct N-Hydroxyindoles or Oxindoles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19207-19213	16.4	3
34	The American Chemical Society General Chemistry Performance Expectations Project: From Task Force to Distributed Process for Implementing Multidimensional Learning. <i>Journal of Chemical Education</i> , 2021 , 98, 1112-1123	2.4	3
33	JCE Classroom Activity #112: Guessing the Number of Candies in the Jar Who Needs Guessing?. <i>Journal of Chemical Education</i> , 2012 , 89, 1171-1173	2.4	2
32	The Center for Authentic Science Practice in Education: Integrating Science Research into the Undergraduate Laboratory Curriculum 193-206		2
31	Research Opportunities for Undergraduate Institutions at the NSF Web Site. <i>Journal of Chemical Education</i> , 2000 , 77, 1549	2.4	2
30	WebCASPAR: NSF's Educational Database Engine. <i>Journal of Chemical Education</i> , 1999 , 76, 1479	2.4	2
29	Alkene-Chelated Ruthenium Alkylidenes: A Missing Link to New Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 1977-1987	3.8	2
28	The Inquiry Wheel, an Alternative to the Scientific Method. A View of the Science Education Research Literature. <i>Journal of Chemical Education</i> , 2005 , 82, 682	2.4	1
27	Chemistry Education and the Post-constructivist Perspective of Bruno Latour. <i>Journal of Chemical Education</i> , 2020 , 97, 4268-4275	2.4	0
26	Examining an Acid-Base Laboratory Practical Assessment from the Perspective of Evidence-Centered Design. <i>Journal of Chemical Education</i> , 2021 , 98, 1898-1909	2.4	0
25	Counterion Control of t-BuO-Mediated Single Electron Transfer to Nitrostilbenes to Construct N-Hydroxyindoles or Oxindoles. <i>Angewandte Chemie</i> , 2021 , 133, 19356-19362	3.6	0
24	Working To Build a Chemical Education Practice. <i>ACS Symposium Series</i> , 2013 , 111-127	0.4	
23	Philosophical, Cognitive, and Sociological Roots for Connections in Chemistry Teaching and Learning 1-25		
22	These Kids Can Do Inquiry, Another Urban Legend. <i>ACS Symposium Series</i> , 2011 , 83-110	0.4	
21	CHED Events: Salt Lake City. <i>Journal of Chemical Education</i> , 2009 , 86, 285	2.4	
20	Manual and Automated Document Retrieval at the NSF Web Site. <i>Journal of Chemical Education</i> , 1998 , 75, 535	2.4	
19	CHED Events: Philadelphia. <i>Journal of Chemical Education</i> , 2008 , 85, 1041	2.4	

- 18 CHED Events: New Orleans. *Journal of Chemical Education*, **2008**, 85, 354 2.4
- 17 . *Journal of Chemical Education*, **2006**, 83, 371 2.4
- 16 New Guidelines for Undergraduate and Technological Education at the NSF Web Site. *Journal of Chemical Education*, **2000**, 77, 560 2.4
- 15 NSF Web Site Information on New and Continuing Programs in Science Education. *Journal of Chemical Education*, **2000**, 77, 443 2.4
- 14 New Guidelines for Elementary, Secondary, and Informal Education. *Journal of Chemical Education*, **2000**, 77, 150 2.4
- 13 NSF Web Site Links on Instructional Technology and Education. *Journal of Chemical Education*, **2000**, 77, 25 2.4
- 12 Information Technology Research and Education at NSF. *Journal of Chemical Education*, **2000**, 77, 1395 2.4
- 11 Information Available through the NSF Web Site. *Journal of Chemical Education*, **2001**, 78, 160 2.4
- 10 Education, Emerging Information Technology, and the NSF. *Journal of Chemical Education*, **1998**, 75, 1370.4
- 9 Science and Engineering Indicators 1998. *Journal of Chemical Education*, **1998**, 75, 1078 2.4
- 8 Upcoming Deadlines in Educational Grant Programs. *Journal of Chemical Education*, **1998**, 75, 1208 2.4
- 7 Exploring the NSF Education Web Sites. *Journal of Chemical Education*, **1998**, 75, 405 2.4
- 6 Proposal Preparation Aids at the NSF Web Site. *Journal of Chemical Education*, **1998**, 75, 955 2.4
- 5 Systemic Education Reform: Links from the NSF Web Site. *Journal of Chemical Education*, **1999**, 76, 162 2.4
- 4 Teacher Preparation and Enhancement Programs at the NSF Web Site. *Journal of Chemical Education*, **1999**, 76, 21 2.4
- 3 Working at the NSF FastLane Web Site. *Journal of Chemical Education*, **1999**, 76, 1181 2.4
- 2 Shaping the Future: A Developing NSF Feature. *Journal of Chemical Education*, **1999**, 76, 461 2.4
- 1 The National Science Board on Science Education. *Journal of Chemical Education*, **1999**, 76, 751 2.4

