

David Dolphin

List of Publications by Year in descending order

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116
papers

7,779
citations

50244

46
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49868

87
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125
all docs

125
docs citations

125
times ranked

5045
citing authors

#	ARTICLE	IF	CITATIONS
1	Porphyrin-based photosensitizers for use in photodynamic therapy. <i>Tetrahedron</i> , 1998, 54, 4151-4202.	1.0	927
2	Expanded Porphyrins and Their Heterologs. <i>Chemical Reviews</i> , 1997, 97, 2267-2340.	23.0	550
3	Structure and Biodistribution Relationships of Photodynamic Sensitizers*. <i>Photochemistry and Photobiology</i> , 1996, 64, 469-485.	1.3	488
4	Polyhaloporphyrins: Unusual Ligands for Metals and Metal-Catalyzed Oxidations. <i>Accounts of Chemical Research</i> , 1997, 30, 251-259.	7.6	474
5	.pi.-Cation radicals and dications of metalloporphyrins. <i>Journal of the American Chemical Society</i> , 1970, 92, 3451-3459.	6.6	447
6	Biochemical significance of porphyrin .pi. cation radicals. <i>Accounts of Chemical Research</i> , 1974, 7, 26-32.	7.6	280
7	Sapphyrins: novel aromatic pentapyrrolic macrocycles. <i>Journal of the American Chemical Society</i> , 1983, 105, 6429-6436.	6.6	272
8	The vitamin B12 coenzyme. <i>Accounts of Chemical Research</i> , 1976, 9, 114-120.	7.6	228
9	Synthesis of meso-phenyl-4,6-dipyrins, preparation of their Cu(II), Ni(II), and Zn(II) chelates, and structural characterization of bis[meso-phenyl-4,6-dipyrinato]Ni(II). <i>Canadian Journal of Chemistry</i> , 1996, 74, 2182-2193.	0.6	159
10	The Use of Dipyrromethene Ligands in Supramolecular Chemistry. <i>Journal of the American Chemical Society</i> , 1998, 120, 13537-13538.	6.6	149
11	Biodistribution of tritiated benzoporphyrin derivative (3H-BPD-MA), a new potent photosensitizer, in normal and tumor-bearing mice. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1990, 5, 231-244.	1.7	120
12	Perchlorinated and Highly Chlorinated meso-Tetraphenylporphyrins. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 1028-1030.	4.4	109
13	Formation of a meso-Tetraphenylsecochlorin and a Homoporphyrin with a Twist. <i>Journal of Organic Chemistry</i> , 1998, 63, 2094-2098.	1.7	107
14	Double-Helical Dinuclear Bis(dipyrromethene) Complexes Formed by Self-Assembly. <i>Journal of Organic Chemistry</i> , 2000, 65, 7870-7877.	1.7	101
15	1993 Syntex Award Lecture Photomedicine and photodynamic therapy. <i>Canadian Journal of Chemistry</i> , 1994, 72, 1005-1013.	0.6	100
16	Novel and Improved Syntheses of 5,15-Diphenylporphyrin and its Dipyrrolic Precursors. <i>Journal of Porphyrins and Phthalocyanines</i> , 1998, 02, 455-465.	0.4	98
17	In vitro EVALUATION OF PHOTOTOXIC PROPERTIES OF FOUR STRUCTURALLY RELATED BENZOPORPHYRIN DERIVATIVES. <i>Photochemistry and Photobiology</i> , 1990, 52, 495-500.	1.3	91
18	Mechanisms of hemin-catalyzed alkene epoxidation. The effect of catalyst on the regiochemistry of epoxidation. <i>Journal of the American Chemical Society</i> , 1986, 108, 2782-2784.	6.6	87

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19	Synthesis, derivatization and structural characterization of octahedral tris(5-phenyl-4,6-dipyrrinato) complexes of cobalt(III) and iron(III). <i>Inorganica Chimica Acta</i> , 1997, 263, 279-286.	1.2	85
20	Anomalous Double Cyclization Reactions of .beta.-Formylporphyrins. <i>Journal of Organic Chemistry</i> , 1994, 59, 7976-7985.	1.7	83
21	Near-Infrared Absorbing Azo Dyes: Synthesis and X-ray Crystallographic and Spectral Characterization of Monoazopyrroles, Bisazopyrroles, and a Boron ⁺ Azopyrrole Complex. <i>Journal of Organic Chemistry</i> , 2009, 74, 5237-5243.	1.7	70
22	A meso-unsubstituted N-confused porphyrin prepared by rational synthesis. <i>Chemical Communications</i> , 1996, , 2141-2142.	2.2	68
23	The metabolites of dietary chlorophylls. <i>Phytochemistry</i> , 1999, 50, 195-202.	1.4	68
24	Nucleophilic reaction of 1,8-diazabicyclo[5.4.0]undec-7-ene and 1,5-diazabicyclo[4.3.0]non-5-ene with methyl pheophorbide a. Unexpected products. <i>Tetrahedron</i> , 1996, 52, 849-860.	1.0	67
25	Nitrooctaethylporphyrins: synthesis, optical and redox properties. <i>Canadian Journal of Chemistry</i> , 1985, 63, 401-405.	0.6	66
26	Oxidative addition to iridium(I). Free-radical process. <i>Journal of the American Chemical Society</i> , 1972, 94, 4043-4044.	6.6	65
27	An improved synthesis of octaethylporphyrin. <i>Journal of Organic Chemistry</i> , 1976, 41, 3857-3860.	1.7	65
28	Stereoselective Synthesis of New Chlorophylla-Related Antioxidants Isolated from Marine Organisms. <i>Journal of Organic Chemistry</i> , 1996, 61, 2501-2510.	1.7	65
29	Scaffold-based design and synthesis of potent N-type calcium channel blockers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6467-6472.	1.0	64
30	Excitonic interactions in covalently-linked porphyrin dimers. <i>Chemical Physics</i> , 1981, 60, 33-46.	0.9	62
31	One-electron electrochemical reduction of a ferrous porphyrin dioxygen complex. <i>Journal of the American Chemical Society</i> , 1981, 103, 2869-2871.	6.6	60
32	A triple-stranded helicate and mesocate from the same metal and ligand. <i>Chemical Communications</i> , 2009, , 6931.	2.2	58
33	2,3-vic-Dihydroxy-meso-tetraphenylchlorins from the osmium tetroxide oxidation of meso-tetraphenylporphyrin. <i>Tetrahedron Letters</i> , 1995, 36, 3295-3298.	0.7	56
34	A Novel Stepwise Degradation of Porphyrins. Synthesis and Structural Characterization of meso-Tetraphenylchlorophinato Nickel(II) and meso-Tetraphenylsecochlorinato Nickel(II). <i>Journal of the American Chemical Society</i> , 1999, 121, 2609-2610.	6.6	56
35	Nuclear Magnetic Resonance Studies of Helical Dipyrrromethene ⁺ Zinc Complexes. <i>Organic Letters</i> , 2000, 2, 1315-1318.	2.4	55
36	Self-assembly of oligomeric linear dipyrromethene metal complexes. <i>Chemical Communications</i> , 2009, , 2541.	2.2	55

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37	The Diels-Alder reactions of protoporphyrin IX dimethyl ester with electron-deficient alkynes. <i>Journal of Organic Chemistry</i> , 1986, 51, 1094-1100.	1.7	54
38	Regioselective halogenation and palladium-catalysed couplings on 5,15-diphenylporphyrin. <i>Journal of Porphyrins and Phthalocyanines</i> , 2000, 04, 228-232.	0.4	54
39	2-Pyrrolylthiones as Monoanionic Bidentate N,S-Chelators: Synthesis and Molecular Structure of 2-Pyrrolylthionato Complexes of Nickel(II), Cobalt(III), and Mercury(II). <i>Inorganic Chemistry</i> , 2000, 39, 6100-6106.	1.9	53
40	Synthesis and Characterization of β -Trifluoromethyl-meso-tetraphenylporphyrins. <i>Journal of Organic Chemistry</i> , 2003, 68, 1892-1900.	1.7	52
41	5-Unsubstituted 2-pyrrolicarboxaldehydes for porphyrin synthesis and the cyanovinyl protecting group. <i>Journal of Organic Chemistry</i> , 1988, 53, 2787-2795.	1.7	51
42	A purification of meso-tetraphenylporphyrin. <i>Tetrahedron Letters</i> , 1974, 15, 4251-4254.	0.7	50
43	Synthesis of Triple-Stranded Complexes Using Bis(dipyrromethene) Ligands. <i>Inorganic Chemistry</i> , 2010, 49, 11550-11555.	1.9	50
44	N-Alkylporphyrin formation during the reactions of cytochrome P-450 model systems. <i>Journal of the American Chemical Society</i> , 1985, 107, 3735-3736.	6.6	48
45	Design and Synthesis of 2-Deoxy-2-Fluorodisaccharides as Mechanism-Based Glycosidase Inhibitors That Exploit Aglycon Specificity. <i>Journal of the American Chemical Society</i> , 1997, 119, 5792-5797.	6.6	48
46	Porphyrins. XXXI. Chemical properties and electronic spectra of d0 transition-metal complexes. <i>Journal of the American Chemical Society</i> , 1975, 97, 3142-3149.	6.6	46
47	β,β' -dihydroxylation of meso-tetraphenylchlorins and metallochlorins. <i>Tetrahedron Letters</i> , 1995, 36, 9425-9428.	0.7	46
48	Inner C-cyanide addition and nucleophilic addition to Ni(II) N-confused porphyrins. Electronic supplementary information (ESI) available: UV-vis spectra of 1 with and without NaOCH ₃ . See http://www.rsc.org/suppdata/cc/b2/b211990k/ . <i>Chemical Communications</i> , 2003, , 1062-1063.	2.2	45
49	Diels-Alder reactions of nickel(II) N-confused porphyrins as dienophiles. <i>Chemical Communications</i> , 2002, , 1816-1817.	2.2	44
50	Carbonyl ylide 1,3-dipolar cycloadditions with porphyrins. <i>Tetrahedron Letters</i> , 2002, 43, 7281-7283.	0.7	43
51	Synthesis and self-assembly of novel tetra- and hexapyrroles containing dipyrroles linked by a sulfur bridge at the β -position. <i>Tetrahedron Letters</i> , 2002, 43, 8413-8416.	0.7	40
52	Metal complexes of dipyrromethenes linked by rigid spacer arms. <i>CrystEngComm</i> , 2008, 10, 1531.	1.3	40
53	Reactions of protoporphyrin with tetracyanoethylene. <i>Journal of Organic Chemistry</i> , 1980, 45, 5196-5204.	1.7	39
54	Ready syntheses of benzoporphyrins via Diels-Alder reactions with protoporphyrin IX. <i>Journal of the Chemical Society Chemical Communications</i> , 1984, .	2.0	39

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55	meso-Phenyl substituted porphocyanines: A new class of functionalized expanded porphyrins. <i>Tetrahedron Letters</i> , 1994, 35, 5377-5380.	0.7	37
56	Preparation of [meso-tetraphenylchlorophinato]nickel(II) by stepwise deformylation of [meso-tetraphenyl-2,3-diformyl-secochlorinato]nickel(II): conformational consequences of breaking the structural integrity of nickel porphyrins. <i>Inorganica Chimica Acta</i> , 2005, 358, 2943-2953.	1.2	37
57	Synthesis of covalently-linked dimeric porphyrins. <i>Canadian Journal of Chemistry</i> , 1978, 56, 1710-1712.	0.6	36
58	Exciton and electron interaction in covalently-linked dimeric porphyrins. <i>Canadian Journal of Chemistry</i> , 1978, 56, 1712-1715.	0.6	33
59	Porphocyanine: an expanded tetrapyrrolic macrocycle. <i>Journal of the American Chemical Society</i> , 1993, 115, 9301-9302.	6.6	33
60	Protonated Dipyromethenes and Tetrahalozinc Anions as Synthons in the Solid State. <i>Crystal Growth and Design</i> , 2004, 4, 659-661.	1.4	30
61	Characterization Of Benzoporphyrin Derivative, A New Photosensitizer. , 1989, , .		28
62	Porphocyanines: An Expanded Aromatic Tetrapyrrolic Macrocycles. <i>Journal of the American Chemical Society</i> , 1996, 118, 4853-4859.	6.6	28
63	Aggregation studies of benzoporphyrin derivative. <i>Canadian Journal of Chemistry</i> , 2001, 79, 1068-1074.	0.6	28
64	Evaluation of tetraphenyl-2,3-dihydroxychlorins as potential photosensitizers. <i>Journal of Porphyrins and Phthalocyanines</i> , 2002, 06, 146-155.	0.4	28
65	A convenient synthetic route to the bacteriochlorin chromophore. <i>Tetrahedron Letters</i> , 1991, 32, 2875-2878.	0.7	27
66	Diastereoselective generation of triple-stranded helicates induced by gem-dimethyl groups on a linker. <i>Dalton Transactions</i> , 2012, 41, 4751.	1.6	27
67	Hoch- und perchlorierte <i>meso</i> -Tetraphenylporphyrine. <i>Angewandte Chemie</i> , 1990, 102, 1073-1074.	1.6	25
68	Self-assembly of [2 \times 2] grids and a hexagon using bis(dipyrrin)s. <i>Chemical Communications</i> , 2011, 47, 704-706.	2.2	25
69	Oxidized forms of a tripyrrane: $\hat{1}^{\pm}$ -tripyrrinone, $\hat{1}^2$ -tripyrrinone and a C2 symmetric hexapyrrole. <i>Chemical Communications</i> , 2009, , 2323.	2.2	24
70	Heme proteins and metalloporphyrins: Redox chemistry and oxygen binding. <i>International Journal of Quantum Chemistry</i> , 1979, 16, 311-329.	1.0	23
71	Some Preparations and Properties of Porphyrins. <i>Advances in Experimental Medicine and Biology</i> , 1985, 193, 229-266.	0.8	23
72	Cross-metathesis reactions of vinyl-chlorins and -porphyrins catalyzed by a "second generation" Grubbs' catalyst. <i>Chemical Communications</i> , 2004, , 852-853.	2.2	22

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73	Asymmetric hydroxylation of chlorophyll derivatives: A facile entry to both diastereomers of chlorophyllone a. <i>Tetrahedron: Asymmetry</i> , 1995, 6, 313-316.	1.8	21
74	An improved synthesis of monoazaporphyrins. <i>Tetrahedron Letters</i> , 1995, 36, 1567-1570.	0.7	21
75	Design and Synthesis of Novel Phenothiazinium Photosensitiser Derivatives. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2675-2686.	1.2	21
76	Facile synthesis of dicyanovinyl-di(meso-aryl)dipyrromethenes via a dipyrrometheneâ€“DDQ adduct. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2032.	1.5	21
77	The Electronic Configurations of Catalases and Peroxidases in their High Oxidation States: A Definitive Assessment. <i>Israel Journal of Chemistry</i> , 1981, 21, 67-71.	1.0	19
78	Second Generation Photodynamic Agents: A Review. <i>Photomedicine and Laser Surgery</i> , 1993, 11, 233-241.	1.1	19
79	Magnetic Resonance Imaging Evaluation of Photodynamic Therapyâ€“Induced Hemorrhagic Necrosis in the Murine M1 Tumor Model. <i>Photochemistry and Photobiology</i> , 1997, 66, 847-852.	1.3	19
80	Cross-Metathesis of the Vinyl Group on Tetrapyrrolic Macrocycles: Reactivity, Selectivity, and Mechanism. <i>Journal of Organic Chemistry</i> , 2008, 73, 6542-6550.	1.7	18
81	Conformational flexibility of dipyrromethenes: supramolecular assemblies with hydroquinones. <i>CrystEngComm</i> , 2008, 10, 960.	1.3	18
82	Chemical modification of chlorophyll a: synthesis of new regiochemically pure benzoporphyrin and dibenzoporphyrin derivatives. <i>Canadian Journal of Chemistry</i> , 1997, 75, 262-275.	0.6	17
83	X-ray Crystallographic and ¹³ C NMR Investigations of the Effects of Electron-Withdrawing Groups on a Series of Pyrroles. <i>Organic Letters</i> , 2000, 2, 3587-3590.	2.4	16
84	Transformation of a monovinylporphyrin to benzoporphyrins via Diels-Alder adducts. <i>Tetrahedron Letters</i> , 1989, 30, 6135-6138.	0.7	15
85	Synthesis, structure and properties of 1,19-disubstituted tetrahydrocorrin cobalt complexes. <i>Journal of Inorganic Biochemistry</i> , 2001, 83, 133-138.	1.5	14
86	BODIPYâ€“Hexaphyrin Hybrids. <i>Chemistry - A European Journal</i> , 2009, 15, 12955-12959.	1.7	13
87	The Synthesis of Porphyrins Doubly Linked to Quinones by Hydrocarbon Chains. <i>Angewandte Chemie International Edition in English</i> , 1985, 24, 1003-1004.	4.4	12
88	Syntheses of chlorins possessing fused nitrogen-containing rings. <i>Tetrahedron Letters</i> , 1998, 39, 4619-4622.	0.7	12
89	Fast, efficient syntheses of linear poly(dipyrromethene)s. <i>Canadian Journal of Chemistry</i> , 2002, 80, 1668-1675.	0.6	12
90	Self-assembly via intermolecular hydrogen-bonding between o-/m-/p-NH ₂ and BF ₂ groups on dipyrromethenes. <i>Tetrahedron Letters</i> , 2008, 49, 5515-5518.	0.7	11

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91	Facile Synthesis of Unsubstituted β^2, β^2 -Linked Diformyldipyrromethanes. <i>Journal of Organic Chemistry</i> , 2008, 73, 9515-9517.	1.7	11
92	Synthesis of a class of 5-((5-(pyrrol-2-yl-methylene)-pyrrol-2-yl)methylene)furan-2-ones and the formation of a furanone dipyrin imino ether. <i>New Journal of Chemistry</i> , 2011, 35, 2483.	1.4	11
93	A novel and convenient conversion of chlorins to phytopyrins during the modification of chlorophyll derivatives. <i>Tetrahedron Letters</i> , 1995, 36, 7791-7794.	0.7	10
94	A Biomimetic Study of Cytochrome P450 Related Oxidations of Toluenes Using Synthetic Hemin. <i>Bulletin of the Chemical Society of Japan</i> , 1996, 69, 3513-3521.	2.0	10
95	A highly efficient preparation of N-confused cyclodecapyrroles. <i>Tetrahedron Letters</i> , 2001, 42, 3263-3265.	0.7	10
96	Synthesis of the hemin of β^2 -tetrakis(trifluoromethyl)-meso-tetraphenylporphyrin and its evaluation as a P-450 mimic. <i>Inorganica Chimica Acta</i> , 2003, 346, 261-264.	1.2	10
97	The reductive coupling of 2-cyanopyrroles: A study pertaining to the mechanism of formation of porphocyanines. <i>Tetrahedron</i> , 1998, 54, 2021-2030.	1.0	9
98	The direct knorr synthesis of β^2 -pyrrolocarboxamides. <i>Journal of Heterocyclic Chemistry</i> , 1975, 12, 1317-1318.	1.4	8
99	Linear fully conjugated meso-aryl pentapyrins. <i>Tetrahedron Letters</i> , 2009, 50, 6909-6912.	0.7	8
100	Enzymatic and Electrochemical Reduction of Dioxygen. <i>Advances in Chemistry Series</i> , 1982, , 563-583.	0.6	7
101	Protonation of porphocyanine β^2 a new expanded tetrapyrrolic macrocycle. <i>Canadian Journal of Chemistry</i> , 1995, 73, 2148-2152.	0.6	7
102	Separation of porphyrin-based photosensitizer isomers by laser-induced fluorescence capillary electrophoresis. <i>Electrophoresis</i> , 2005, 26, 3861-3868.	1.3	7
103	Medical Applications. , 1990, , 193-212.		7
104	Far-red absorbing azodipyrin dyes β^2 Synthesis, X-ray crystallographic, and spectral characterization of 1,9-diazodipyrins and their metal complexes. <i>Canadian Journal of Chemistry</i> , 2011, 89, 481-487.	0.6	5
105	Characterization of Decamethyl and Ethoxycarbonyl Pentaphyrins. <i>Heterocycles</i> , 1995, 41, 2553.	0.4	5
106	The Unexpected Formation of a Tetradentate Tripyrrolic Complex of Nickel(II). <i>Chemische Berichte</i> , 1996, 129, 1195-1198.	0.2	4
107	The Generation of Radicals during the Normal and Abnormal Functioning of Cytochromes P-450. , 1988, 49, 491-500.		4
108	Biological Oxidations with Heme Proteins. <i>Catalysis By Metal Complexes</i> , 1994, , 269-306.	0.6	4

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109	Anisochronous methylene protons of metalloporphyrins bearing peripheral alkyl groups. <i>Journal of Magnetic Resonance</i> , 1976, 23, 211-220.	0.5	3
110	Metalloporphyrins. <i>ACS Symposium Series</i> , 1983, , 99-115.	0.5	3
111	Cyclooctapyrroles, novel macrocycles containing biladiene-a,c units. <i>Tetrahedron</i> , 2003, 59, 871-875.	1.0	3
112	Formulation of Benzoporphyrin Derivatives in Pluronics. <i>Photochemistry and Photobiology</i> , 2007, 77, 299-303.	1.3	3
113	3,3'-Dipyrrolyl sulfides, useful building blocks for the syntheses of macrocycles containing dipyrromethene units. <i>Canadian Journal of Chemistry</i> , 2003, 81, 988-991.	0.6	2
114	Regioselective Reduction of 2,4-Diacetylpyrroles and the Synthesis of a 2,4-Divinylpyrrole. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 3562-3566.	1.2	2
115	Models for Peroxidase and Cytochrome P-450 Enzymes. , 1982, , 283-294.		2
116	Spectro-Electrochemistry: Porphyrins and Metalloporphyrins. , 1985, , 171-180.		0