

# Richard W Wagner

## List of Publications by Year in descending order

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46  
papers

7,812  
citations

94269

37  
h-index

223531

46  
g-index

49  
all docs

49  
docs citations

49  
times ranked

5253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene inhibition using antisense oligodeoxynucleotides. <i>Nature</i> , 1994, 372, 333-335.	13.7	805
2	Investigation of the synthesis of ortho-substituted tetraphenylporphyrins. <i>Journal of Organic Chemistry</i> , 1989, 54, 828-836.	1.7	687
3	Design, synthesis and selection of DNA-encoded small-molecule libraries. <i>Nature Chemical Biology</i> , 2009, 5, 647-654.	3.9	554
4	A molecular photonic wire. <i>Journal of the American Chemical Society</i> , 1994, 116, 9759-9760.	6.6	495
5	Refined Synthesis of 5-Substituted Dipyrromethanes. <i>Journal of Organic Chemistry</i> , 1999, 64, 1391-1396.	1.7	454
6	Molecular Optoelectronic Gates. <i>Journal of the American Chemical Society</i> , 1996, 118, 3996-3997.	6.6	357
7	Soluble Synthetic Multiporphyrin Arrays. 2. Photodynamics of Energy-Transfer Processes. <i>Journal of the American Chemical Society</i> , 1996, 118, 11181-11193.	6.6	310
8	Synthesis of Ethyne-Linked or Butadiyne-Linked Porphyrin Arrays Using Mild, Copper-Free, Pd-Mediated Coupling Reactions. <i>Journal of Organic Chemistry</i> , 1995, 60, 5266-5273.	1.7	297
9	Porphyrin building blocks for modular construction of bioorganic model systems. <i>Tetrahedron</i> , 1994, 50, 8941-8968.	1.0	272
10	Soluble Synthetic Multiporphyrin Arrays. 1. Modular Design and Synthesis. <i>Journal of the American Chemical Society</i> , 1996, 118, 11166-11180.	6.6	268
11	Nucleosides with a Twist. Can Fixed Forms of Sugar Ring Pucker Influence Biological Activity in Nucleosides and Oligonucleotides? <i>Journal of Medicinal Chemistry</i> , 1996, 39, 3739-3747.	2.9	258
12	Intracellular disposition and metabolism of fluorescently-labeled unmodified and modified oligonucleotides microinjected into mammalian cells. <i>Nucleic Acids Research</i> , 1993, 21, 3857-3865.	6.5	242
13	Directed Evolution of High-Affinity Antibody Mimics Using mRNA Display. <i>Chemistry and Biology</i> , 2002, 9, 933-942.	6.2	216
14	Spectroscopic characterization of porphyrin monolayer assemblies. <i>Journal of the American Chemical Society</i> , 1989, 111, 1344-1350.	6.6	197
15	Soluble Synthetic Multiporphyrin Arrays. 3. Static Spectroscopic and Electrochemical Probes of Electronic Communication. <i>Journal of the American Chemical Society</i> , 1996, 118, 11194-11207.	6.6	182
16	An assessment of the antisense properties of RNase H-competent and steric-blocking oligomers. <i>Nucleic Acids Research</i> , 1995, 23, 1197-1203.	6.5	177
17	Structural Control of Photoinduced Energy Transfer between Adjacent and Distant Sites in Multiporphyrin Arrays. <i>Journal of the American Chemical Society</i> , 2000, 122, 7579-7591.	6.6	141
18	Design and Synthesis of Porphyrin-Based Optoelectronic Gates. <i>Chemistry of Materials</i> , 2001, 13, 1023-1034.	3.2	135

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19	Potent and selective inhibition of gene expression by an antisense heptanucleotide. <i>Nature Biotechnology</i> , 1996, 14, 840-844.	9.4	122
20	An improved synthesis of tetramesitylporphyrin. <i>Tetrahedron Letters</i> , 1987, 28, 3069-3070.	0.7	119
21	Synthesis and Excited-State Photodynamics of a Molecular Square Containing Four Mutually Coplanar Porphyrins. <i>Journal of Organic Chemistry</i> , 1998, 63, 5042-5049.	1.7	115
22	Generating addressable protein microarrays with PROfusion <sup>®</sup> , a covalent mRNA-protein fusion technology. <i>Proteomics</i> , 2002, 2, 48-57.	1.3	110
23	Weakly Coupled Molecular Photonic Wires: Synthesis and Excited-State Energy-Transfer Dynamics. <i>Journal of Organic Chemistry</i> , 2002, 67, 3811-3826.	1.7	106
24	Site and Mechanism of Antisense Inhibition by C-5 Propyne Oligonucleotides. <i>Biochemistry</i> , 1995, 34, 5044-5053.	1.2	99
25	Investigation and Refinement of Palladium-Coupling Conditions for the Synthesis of Diarylethyne-Linked Multiporphyrin Arrays. <i>Chemistry of Materials</i> , 1999, 11, 2974-2983.	3.2	96
26	Antisense technology and prospects for therapy of viral infections and cancer. <i>Trends in Molecular Medicine</i> , 1997, 3, 31-38.	2.6	88
27	Mechanisms of Excited-State Energy-Transfer Gating in Linear versus Branched Multiporphyrin Arrays. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5341-5352.	1.2	85
28	Synthesis of Linear Amphipathic Porphyrin Dimers and Trimers: An Approach to Bilayer Lipid Membrane Spanning Porphyrin Arrays. <i>Journal of Organic Chemistry</i> , 1996, 61, 7534-7544.	1.7	82
29	Inhibition of Human Immunodeficiency Virus Type-1 env Expression by C-5 Propyne Oligonucleotides Specific for Rev-Response Element Stem-Loop V. <i>Biochemistry</i> , 1994, 33, 8391-8398.	1.2	70
30	Antisense Gene Inhibition by C-5-Substituted Deoxyuridine-Containing Oligodeoxynucleotides. <i>Biochemistry</i> , 1997, 36, 743-748.	1.2	68
31	Cellular penetration and antisense activity by a phenoxazine-substituted heptanucleotide. <i>Nature Biotechnology</i> , 1999, 17, 48-52.	9.4	48
32	Effects of oligonucleotide length, mismatches and mRNA levels on C-5 propyne-modified antisense potency. <i>Nucleic Acids Research</i> , 1996, 24, 2936-2941.	6.5	46
33	Investigation of the one-flask synthesis of porphyrins bearing meso-linked straps of variable length, rigidity, and redox activity. <i>Tetrahedron</i> , 1997, 53, 6755-6790.	1.0	44
34	Investigation of Cocatalysis Conditions Using an Automated Microscale Multireactor Workstation: Synthesis of meso-Tetramesitylporphyrin. <i>Organic Process Research and Development</i> , 1999, 3, 28-37.	1.3	41
35	Nuclease recognition of an alternating structure in a d(AT) <sub>14</sub> plasmid insert. <i>Nucleic Acids Research</i> , 1986, 14, 3703-3716.	6.5	40
36	Self-assembly of molecular devices containing a ferrocene, a porphyrin and a quinone in a triple macrocyclic architecture. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 1463.	2.0	37

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37	Potent and selective gene inhibition using antisense oligodeoxynucleotides. , 1997, 172, 213-225.		35
38	Synthesis of porphyrins tailored with eight facially-encumbering groups. An approach to solid-state light-harvesting complexes. Tetrahedron, 1994, 50, 11097-11112.	1.0	33
39	Elucidation of gene function using C-5 propyne antisense oligonucleotides. Nature Biotechnology, 1996, 14, 1139-1145.	9.4	32
40	Hybridization and dissociation rates of phosphodiester or modified oligodeoxynucleotides with RNA at nearphysiological conditions.. Nucleic Acids Research, 1991, 19, 2463-2470.	6.5	31
41	Synthesis of facially-encumbered porphyrins. An approach to light-harvesting antenna complexes. Tetrahedron Letters, 1991, 32, 1703-1706.	0.7	27
42	Quenching of porphyrin excited states by adjacent or distant porphyrin cation radicals in molecular arrays. Chemical Physics Letters, 2001, 341, 35-44.	1.2	24
43	Toward a Broad-Based Antisense Technology. Antisense Research and Development, 1995, 5, 113-114.	3.3	19
44	SYNTHESIS OF AMPHIPATHIC PORPHYRINS AND THEIR PHOTOINDUCED ELECTRON TRANSFER REACTIONS AT THE LIPID BILAYERâ€WATER INTERFACE. Photochemistry and Photobiology, 1994, 59, 145-151.	1.3	5
45	Base-Selective DNA Cleavage with a Cyclometalated Palladium Complex. ACS Symposium Series, 1989, , 146-158.	0.5	3
46	Potent and selective gene inhibition using antisense oligodeoxynucleotides. , 1997, , 213-225.		2