

Richard W Wagner

List of Publications by Year in descending order

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46
papers

7,812
citations

94433

37
h-index

214800

47
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. | 27.8 | 805 |
| 2 | Investigation of the synthesis of ortho-substituted tetraphenylporphyrins. <i>Journal of Organic Chemistry</i> , 1989, 54, 828-836. | 3.2 | 687 |
| 3 | Design, synthesis and selection of DNA-encoded small-molecule libraries. <i>Nature Chemical Biology</i> , 2009, 5, 647-654. | 8.0 | 554 |
| 4 | A molecular photonic wire. <i>Journal of the American Chemical Society</i> , 1994, 116, 9759-9760. | 13.7 | 495 |
| 5 | Refined Synthesis of 5-Substituted Dipyrrromethanes. <i>Journal of Organic Chemistry</i> , 1999, 64, 1391-1396. | 3.2 | 454 |
| 6 | Molecular Optoelectronic Gates. <i>Journal of the American Chemical Society</i> , 1996, 118, 3996-3997. | 13.7 | 357 |
| 7 | Soluble Synthetic Multiporphyrin Arrays. 2. Photodynamics of Energy-Transfer Processes. <i>Journal of the American Chemical Society</i> , 1996, 118, 11181-11193. | 13.7 | 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. | 3.2 | 297 |
| 9 | Porphyrin building blocks for modular construction of bioorganic model systems. <i>Tetrahedron</i> , 1994, 50, 8941-8968. | 1.9 | 272 |
| 10 | Soluble Synthetic Multiporphyrin Arrays. 1. Modular Design and Synthesis. <i>Journal of the American Chemical Society</i> , 1996, 118, 11166-11180. | 13.7 | 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. | 6.4 | 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. | 14.5 | 242 |
| 13 | Directed Evolution of High-Affinity Antibody Mimics Using mRNA Display. <i>Chemistry and Biology</i> , 2002, 9, 933-942. | 6.0 | 216 |
| 14 | Spectroscopic characterization of porphyrin monolayer assemblies. <i>Journal of the American Chemical Society</i> , 1989, 111, 1344-1350. | 13.7 | 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. | 13.7 | 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. | 14.5 | 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. | 13.7 | 141 |
| 18 | Design and Synthesis of Porphyrin-Based Optoelectronic Gates. <i>Chemistry of Materials</i> , 2001, 13, 1023-1034. | 6.7 | 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. | 17.5 | 122 |
| 20 | An improved synthesis of tetramesitylporphyrin. <i>Tetrahedron Letters</i> , 1987, 28, 3069-3070. | 1.4 | 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. | 3.2 | 115 |
| 22 | Generating addressable protein microarrays with PROfusion [®] , a covalent mRNA-protein fusion technology. <i>Proteomics</i> , 2002, 2, 48-57. | 2.2 | 110 |
| 23 | Weakly Coupled Molecular Photonic Wires: A Synthesis and Excited-State Energy-Transfer Dynamics. <i>Journal of Organic Chemistry</i> , 2002, 67, 3811-3826. | 3.2 | 106 |
| 24 | Site and Mechanism of Antisense Inhibition by C-5 Propyne Oligonucleotides. <i>Biochemistry</i> , 1995, 34, 5044-5053. | 2.5 | 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. | 6.7 | 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. | 2.6 | 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. | 3.2 | 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. | 2.5 | 70 |
| 30 | Antisense Gene Inhibition by C-5-Substituted Deoxyuridine-Containing Oligodeoxynucleotides. <i>Biochemistry</i> , 1997, 36, 743-748. | 2.5 | 68 |
| 31 | Cellular penetration and antisense activity by a phenoxazine-substituted heptanucleotide. <i>Nature Biotechnology</i> , 1999, 17, 48-52. | 17.5 | 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. | 14.5 | 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. | 1.9 | 44 |
| 34 | Investigation of Cocatalysis Conditions Using an Automated Microscale Multireactor Workstation: A Synthesis of meso-Tetramesitylporphyrin. <i>Organic Process Research and Development</i> , 1999, 3, 28-37. | 2.7 | 41 |
| 35 | Nuclease recognition of an alternating structure in a d(AT) ₁₄ plasmid insert. <i>Nucleic Acids Research</i> , 1986, 14, 3703-3716. | 14.5 | 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. Molecular and Cellular Biochemistry, 1997, 172, 213-225. | 3.1 | 35 |
| 38 | Synthesis of porphyrins tailored with eight facially-encumbering groups. An approach to solid-state light-harvesting complexes. Tetrahedron, 1994, 50, 11097-11112. | 1.9 | 33 |
| 39 | Elucidation of gene function using C-5 propyne antisense oligonucleotides. Nature Biotechnology, 1996, 14, 1139-1145. | 17.5 | 32 |
| 40 | Hybridization and dissociation rates of phosphodiester or modified oligodeoxynucleotides with RNA at nearphysiological conditions.. Nucleic Acids Research, 1991, 19, 2463-2470. | 14.5 | 31 |
| 41 | Synthesis of facially-encumbered porphyrins. An approach to light-harvesting antenna complexes. Tetrahedron Letters, 1991, 32, 1703-1706. | 1.4 | 27 |
| 42 | Quenching of porphyrin excited states by adjacent or distant porphyrin cation radicals in molecular arrays. Chemical Physics Letters, 2001, 341, 35-44. | 2.6 | 24 |
| 43 | Toward a Broad-Based Antisense Technology. Antisense Research and Development, 1995, 5, 113-114. | 3.1 | 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. | 2.5 | 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 |