

Frank R Fronczek

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papers

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92
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800
ext. papers

17,716
ext. citations

4.5
avg, IF

6.4
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 782 | Detection of homocysteine and cysteine. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15949-58 | 16.4 | 512 |
| 781 | Rationally designed micropores within a metal-organic framework for selective sorption of gas molecules. <i>Inorganic Chemistry</i> , 2007 , 46, 1233-6 | 5.1 | 458 |
| 780 | A double concave hydrocarbon buckycatcher. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3842-36.4 | 16.4 | 423 |
| 779 | Stereoselective nitrile oxide cycloadditions to chiral allyl ethers and alcohols. The inside alkoxy effect. <i>Journal of the American Chemical Society</i> , 1984 , 106, 3880-3882 | 16.4 | 247 |
| 778 | A microporous metal-organic framework for highly selective separation of acetylene, ethylene, and ethane from methane at room temperature. <i>Chemistry - A European Journal</i> , 2012 , 18, 613-9 | 4.8 | 188 |
| 777 | Selective perturbation of ligand field excited states in polypyridine ruthenium(II) complexes. <i>Journal of the American Chemical Society</i> , 1984 , 106, 5876-5879 | 16.4 | 188 |
| 776 | An organic white light-emitting fluorophore. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14081-82.4 | 16.4 | 170 |
| 775 | Synthesis and reactions of meso-(p-nitrophenyl)porphyrins. <i>Tetrahedron</i> , 2004 , 60, 2757-2763 | 2.4 | 166 |
| 774 | Porous Cu-Cd mixed-metal-organic frameworks constructed from Cu(Pyac) ₂ [Bis[3-(4-pyridyl)pentane-2,4-dionato]copper(II)]. <i>Inorganic Chemistry</i> , 2004 , 43, 8209-11 | 5.1 | 162 |
| 773 | Catalytic asymmetric addition of alcohols to imines: enantioselective preparation of chiral N,O-aminals. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12216-7 | 16.4 | 155 |
| 772 | Transformation of a metal-organic framework from the NbO to PtS net. <i>Inorganic Chemistry</i> , 2005 , 44, 181-3 | 5.1 | 153 |
| 771 | Syntheses and properties of a series of cationic water-soluble phthalocyanines. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 502-11 | 8.3 | 137 |
| 770 | A cryptand/bisparaquat [3]pseudorotaxane by cooperative complexation. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9272-3 | 16.4 | 132 |
| 769 | Synthesis and cellular studies of nonaggregated water-soluble phthalocyanines. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 1033-41 | 8.3 | 132 |
| 768 | Bis(m-phenylene)-32-crown-10-based cryptands, powerful hosts for paraquat derivatives. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3231-41 | 4.2 | 131 |
| 767 | Coordination isomers of biological iron transport compounds. VI. Models of the enterobactin coordination site. A crystal field effect in the structure of potassium tris(catecholato)chromate(III) and -ferrate(III) sesquihydrates, K ₃ (M(O ₂ C ₆ H ₄) ₃)-1.5H ₂ O, M = Cr, Fe. <i>Journal of the American Chemical Society</i> , 1976 , 98, 1767-74 | 16.4 | 131 |
| 766 | High separation capacity and selectivity of C ₂ hydrocarbons over methane within a microporous metal-organic framework at room temperature. <i>Chemistry - A European Journal</i> , 2012 , 18, 1901-4 | 4.8 | 127 |

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| 765 | First pseudorotaxane-like [3]complexes based on cryptands and paraquat: self-assembly and crystal structures. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9367-71 | 16.4 | 127 |
| 764 | Structural Elucidation and Chemistry of a Novel Family of Bioactive Sesquiterpenes: Heliannuols. <i>Journal of Organic Chemistry</i> , 1994 , 59, 8261-8266 | 4.2 | 124 |
| 763 | A new cryptand: synthesis and complexation with paraquat. <i>Organic Letters</i> , 1999 , 1, 1001-4 | 6.2 | 108 |
| 762 | Solid-state structural chemistry of lariat ether and BiBLE cation complexes: metal-ion identity and coordination number determine cavity size. <i>Journal of the American Chemical Society</i> , 1986 , 108, 4078-4088 | 16.4 | 102 |
| 761 | Seminaphthofluorones are a family of water-soluble, low molecular weight, NIR-emitting fluorophores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8829-34 | 11.5 | 97 |
| 760 | Chemistry of heterocyclic compounds. 61. Synthesis and conformational studies of macrocycles possessing 1,8- or 1,5-naphthyridino subunits connected by carbon-oxygen bridges. <i>Journal of Organic Chemistry</i> , 1981 , 46, 833-839 | 4.2 | 97 |
| 759 | Reduction of carbon dioxide to oxalate by a binuclear copper complex. <i>Nature Communications</i> , 2014 , 5, 5883 | 17.4 | 94 |
| 758 | A nanoporous Ag-Fe mixed-metal-organic framework exhibiting single-crystal-to-single-crystal transformations upon guest exchange. <i>Inorganic Chemistry</i> , 2008 , 47, 4433-5 | 5.1 | 89 |
| 757 | Reaction of tosylamide monosodium salt with bis(halomethyl) compounds: an easy entry to symmetrical N-tosyl aza macrocycles. <i>Journal of Organic Chemistry</i> , 1988 , 53, 3521-3529 | 4.2 | 89 |
| 756 | Chiral magnesium BINOL phosphate-catalyzed phosphination of imines: access to enantioenriched β -amino phosphine oxides. <i>Organic Letters</i> , 2011 , 13, 2054-7 | 6.2 | 88 |
| 755 | Metal-organic framework with rationally tuned micropores for selective adsorption of water over methanol. <i>Inorganic Chemistry</i> , 2008 , 47, 5543-5 | 5.1 | 86 |
| 754 | Antimycobacterial cycloartanes from <i>Borrhichia frutescens</i> . <i>Journal of Natural Products</i> , 1996 , 59, 1131-6 | 4.9 | 84 |
| 753 | Novel sesquiterpene from bioactive fractions of cultivar sunflowers. <i>Tetrahedron Letters</i> , 1993 , 34, 1999-2002 | 8.4 | 84 |
| 752 | Synthesis of oxacalixarene-locked bisporphyrins and higher oligomers. <i>Journal of Organic Chemistry</i> , 2006 , 71, 1233-6 | 4.2 | 82 |
| 751 | Antimycobacterial eudesmanolides from <i>Inula helenium</i> and <i>Rudbeckia subtomentosa</i> . <i>Planta Medica</i> , 1999 , 65, 351-5 | 3.1 | 82 |
| 750 | Tandem Nazarov cyclization-michael addition sequence catalyzed by an Ir(III) complex. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5312-3 | 16.4 | 79 |
| 749 | Rh-Catalyzed, Regioselective, C-H Bond Functionalization: Access to Quinoline-Branched Amines and Dimers. <i>Organic Letters</i> , 2016 , 18, 5620-5623 | 6.2 | 77 |
| 748 | Functionalization of corroles: the nitration reaction. <i>Inorganic Chemistry</i> , 2007 , 46, 10791-9 | 5.1 | 77 |

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| 747 | Synthesis and characterization of positively charged porphyrin-peptide conjugates. <i>Bioconjugate Chemistry</i> , 2005 , 16, 852-63 | 6.3 | 72 |
| 746 | Phosphorescence and Structure of a Tetrameric Copper(I)-Amide Cluster. <i>Inorganic Chemistry</i> , 1998 , 37, 3785-3791 | 5.1 | 72 |
| 745 | A 2:1 receptor/C60 complex as a nanosized universal joint. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11153-6 | 16.4 | 69 |
| 744 | Synthesis and Functionalization of Germanium Triphenylcorrolate: The First Example of a Partially Brominated Corrole. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 2345-2352 | 2.3 | 69 |
| 743 | Effect of overall charge and charge distribution on cellular uptake, distribution and phototoxicity of cationic porphyrins in HEp2 cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010 , 100, 100-11 | 6.7 | 68 |
| 742 | Structural and Electronic Effects of Pentafluorophenyl Substituents on Cyclopentadienyl Complexes of Fe, Co, Mn, and Re1. <i>Organometallics</i> , 2000 , 19, 5352-5369 | 3.8 | 68 |
| 741 | μ-Po Nets of Copper(II)-trans-1,4-Cyclohexanedicarboxylate Frameworks Based on a Paddle-Wheel Building Block and Its Enlarged Dimer. <i>Crystal Growth and Design</i> , 2006 , 6, 825-828 | 3.5 | 67 |
| 740 | Synthesis, aggregation and cellular investigations of porphyrin-cobaltacarborane conjugates. <i>Chemistry - A European Journal</i> , 2007 , 13, 9035-42 | 4.8 | 66 |
| 739 | Structural and Dynamic Evidence for C-H...O Hydrogen Bonding in Lariat Ethers: Implications for Protein Structure. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3325-3335 | 16.4 | 66 |
| 738 | Synthesis, computational modeling, and properties of benzo-appended BODIPYs. <i>Chemistry - A European Journal</i> , 2012 , 18, 3893-905 | 4.8 | 64 |
| 737 | Vilsmeier formylation of 5,10,15-triphenylcorrole: expected and unusual products. <i>Chemistry - A European Journal</i> , 2003 , 9, 1192-7 | 4.8 | 62 |
| 736 | Chromophore formation in resorcinarene solutions and the visual detection of mono- and oligosaccharides. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5000-9 | 16.4 | 61 |
| 735 | Calixarenes. 26. Selective esterification and selective ester cleavage of calix[4]arenes. <i>Journal of Organic Chemistry</i> , 1991 , 56, 7256-7268 | 4.2 | 60 |
| 734 | Metastable interwoven mesoporous metal-organic frameworks. <i>Inorganic Chemistry</i> , 2013 , 52, 11580-4 | 5.1 | 59 |
| 733 | Ceratiolin and other flavonoids from <i>Ceratiola ericoides</i> . <i>Phytochemistry</i> , 1986 , 26, 175-179 | 4 | 59 |
| 732 | Antimycobacterial ergosterol-5,8-endoperoxide from <i>Ajuga remota</i> . <i>Planta Medica</i> , 1999 , 65, 732-4 | 3.1 | 58 |
| 731 | Conformational studies of a constrained tryptophan derivative: implications for the fluorescence quenching mechanism. <i>Journal of the American Chemical Society</i> , 1990 , 112, 9182-9190 | 16.4 | 58 |
| 730 | The First Crystallographically Characterized Transition Metal Buckybowl Compound: □C ₃₀ H ₁₂ Carbon-Carbon Bond Activation by Pt(PPh ₃) ₂ . <i>Journal of the American Chemical Society</i> , 1998 , 120, 835-836 | 16.4 | 57 |

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| 729 | Intramolecular binding of nitrogen bases to a cofacial binuclear copper(II) complex. <i>Inorganic Chemistry</i> , 1990 , 29, 2403-2409 | 5.1 | 57 |
| 728 | Synthesis, characterization, and preliminary studies of vanadium(IV) complexes with a Schiff base and thiosemicarbazones as mixed-ligands. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 664-677 | 2.3 | 55 |
| 727 | First supramolecular poly(taco complex). <i>Chemical Communications</i> , 2003 , 1480 | 5.8 | 55 |
| 726 | Synthesis and Structural Trends in Pentafluorophenyl-Substituted Ferrocenes, 1,4-Tetrafluorophenylene-Linked Diferrocenes, and 1,1'-Ferrocenylene-1,4-Tetrafluorophenylene Co-oligomers. <i>Organometallics</i> , 2000 , 19, 1013-1024 | 3.8 | 55 |
| 725 | Synthesis and structural aspects of macrocyclic polyamines containing 2,2'-bipyridinyl units(s). <i>Journal of Organic Chemistry</i> , 1983 , 48, 4848-4851 | 4.2 | 55 |
| 724 | Anion recognition and sensing by a new macrocyclic dinuclear copper(II) complex: a selective receptor for iodide. <i>Inorganic Chemistry</i> , 2010 , 49, 7223-5 | 5.1 | 53 |
| 723 | Demetalation of silver(III) corrolates. <i>Inorganic Chemistry</i> , 2009 , 48, 6879-87 | 5.1 | 52 |
| 722 | Mono-(L)-aspartylchlorin-e6. <i>Photochemistry and Photobiology</i> , 2007 , 83, 1006-15 | 3.6 | 52 |
| 721 | Three polymorphs (alpha, beta, and delta) of D-mannitol at 100 K. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003 , 59, O567-70 | | 52 |
| 720 | Syntheses and Electropolymerization of Carboranyl-Functionalized Pyrroles and Thiophenes. <i>Chemistry of Materials</i> , 2007 , 19, 6195-6205 | 9.6 | 51 |
| 719 | Spectroscopic, computational modeling and cytotoxicity of a series of meso-phenyl and meso-thienyl-BODIPYs. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 5770-81 | 3.4 | 50 |
| 718 | Isoflavones from an Insect-Resistant Variety of Soybean and the Molecular Structure of Afrormosin. <i>Journal of Natural Products</i> , 1986 , 49, 1126-1129 | 4.9 | 50 |
| 717 | Cyclotrimerization of Corannulyne: Steric Hindrance Tunes the Inversion Barriers of Corannulene Bowls. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 6636-6639 | 3.2 | 49 |
| 716 | Experimental tests of models to predict nucleophilic addition stereochemistries. <i>Journal of the American Chemical Society</i> , 1988 , 110, 3328-3330 | 16.4 | 49 |
| 715 | Chemistry of heterocyclic compounds series. 94. Square-planar cis- and trans-C-palladium(II) complexes of N electron-deficient heteroaromatic ligands. Ligand synthesis, complexation, and spectral analyses and complex interaction with phage PM2 DNA. <i>Inorganic Chemistry</i> , 1985 , 24, 811-826 | 5.1 | 49 |
| 714 | Chemistry of heterocyclic compounds. Part 78. Acute bonding deviation in square planar d8-palladium(II) complexes. <i>Journal of the American Chemical Society</i> , 1982 , 104, 1782-1783 | 16.4 | 49 |
| 713 | Influence of carboxylic acid functionalities in ruthenium (II) polypyridyl complexes on DNA binding, cytotoxicity and antioxidant activity: synthesis, structure and in vitro anticancer activity. <i>European Journal of Medicinal Chemistry</i> , 2013 , 59, 253-64 | 6.8 | 48 |
| 712 | A convenient preparation of xanthene dyes. <i>Journal of Organic Chemistry</i> , 2005 , 70, 6907-12 | 4.2 | 48 |

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| 711 | Synthesis of Extended Linear Aromatics Using Tandem Diels-Alder Aromatization Reactions. <i>Journal of Organic Chemistry</i> , 1994 , 59, 6484-6486 | 4.2 | 48 |
| 710 | ENitro-5,10,15-tritolylicorroles. <i>Inorganic Chemistry</i> , 2012 , 51, 6928-42 | 5.1 | 47 |
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| 708 | Synthesis and properties of cobaltacarborane-functionalized Zn(II)-phthalocyanines. <i>Tetrahedron Letters</i> , 2008 , 49, 4828-4830 | 2 | 46 |
| 707 | X-ray-diffraction study of a thermomechanically detwinned single crystal of YBa ₂ Cu ₃ O _{6+x} . <i>Physical Review B</i> , 1990 , 41, 4220-4223 | 3.3 | 46 |
| 706 | Chemistry and revised structure of suvanine. <i>Journal of Organic Chemistry</i> , 1988 , 53, 570-575 | 4.2 | 46 |
| 705 | Unequivocal evidence for sidearm participation in crystalline lariat ether complexes. <i>Journal of the American Chemical Society</i> , 1983 , 105, 6717-6718 | 16.4 | 46 |
| 704 | Field effects induce bathochromic shifts in xanthene dyes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10502-8 | 16.4 | 45 |
| 703 | Molecular clips and tweezers with corannulene pincers. <i>Tetrahedron Letters</i> , 2009 , 50, 7124-7127 | 2 | 45 |
| 702 | Synthesis, characterization and reactivity of MoCl ₂ (O)(O ₂)(OPR ₃) ₂ , OPR ₃ =OPMePh ₂ , OPPh ₃ ; an isomerization catalyst for some allylic alcohols. <i>Inorganic Chemistry Communication</i> , 2002 , 5, 384-387 | 3.1 | 45 |
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| 699 | Amination reaction on copper and germanium Ehitrocorrolates. <i>Inorganic Chemistry</i> , 2011 , 50, 8281-92 | 5.1 | 44 |
| 698 | Structure-activity relationship studies on derivatives of eudesmanolides from <i>Inula helenium</i> as toxicants against <i>Aedes aegypti</i> larvae and adults. <i>Chemistry and Biodiversity</i> , 2010 , 7, 1681-97 | 2.5 | 44 |
| 697 | Single-Crystal Growth of Ln ₂ MIn ₈ (Ln = La, Ce; M = Rh, Ir): Implications for the Heavy-Fermion Ground State. <i>Chemistry of Materials</i> , 2003 , 15, 1394-1398 | 9.6 | 44 |
| 696 | Hemiporphycene from the expansion of a corrole ring. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3047-50 | 16.4 | 44 |
| 695 | In situ generation of ruthenium-chiral phosphine complexes and their use in asymmetric hydrogenation. <i>Organometallics</i> , 1993 , 12, 1467-1470 | 3.8 | 44 |
| 694 | Copper(I) precursors for chemical vapor deposition of copper metal. <i>Chemistry of Materials</i> , 1992 , 4, 577-582 | 5.82 | 44 |

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- 686 Synthesis, molecular structure, and magnetic properties of some copper(II) complexes of bis(2-pyridylmethyl) ketazine. *Inorganic Chemistry*, **1983**, 22, 449-454 5.1 42
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- 684 Synthesis and characterization of free-base, copper, and nickel isocorroles. *Inorganic Chemistry*, **2010**, 49, 5766-74 5.1 41
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- 680 Crystal and molecular structures of dihalotetrakis(pyrophosphito)diplatinum(III) complexes. Integrative use of structural and vibrational data to assess intermetallic bonding and the trans influence of the platinum(III)-platinum(III) bond. *Inorganic Chemistry*, **1985**, 24, 2803-2808 5.1 41
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- 676 Novel carboranylporphyrins for application in boron neutron capture therapy (BNCT) of tumors. *Tetrahedron Letters*, **2005**, 46, 2365-2368 2 39

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