

William J Pietro

List of Publications by Year in descending order

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57
papers

10,355
citations

279798

23
h-index

149698

56
g-index

57
all docs

57
docs citations

57
times ranked

10159
citing authors

#	ARTICLE	IF	CITATIONS
1	Ligand Electrochemical Parameter Approach to Molecular Design. π -Donation, π -Back Donation, and Other Metrics in Ruthenium(II) Dinitrogen Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 1869-1880.	4.0	1
2	Obtaining Kinetics From Continuous Processes: Sampling Multiple Time Points Concurrently With a Single Valve Rotation. <i>Chemistry Methods</i> , 2021, 1, 131-134.	3.8	3
3	Probing relativistic effects in the gas-phase CS ₂ ligation of late transition metal cations (groups 9-11) with rate measurements and quantum chemical calculations of ligation energies. <i>International Journal of Mass Spectrometry</i> , 2021, 462, 116525.	1.5	3
4	Modeling ligand electrochemical parameters by repulsion-corrected eigenvalues. <i>Journal of Computational Chemistry</i> , 2021, 42, 1236-1242.	3.3	1
5	(DiMeHeptCl)Pd: A Low-Load Catalyst for Solvent-Free (Melt) Amination. <i>Journal of Organic Chemistry</i> , 2021, 86, 10343-10359.	3.2	3
6	Metal Nanoparticle Impregnated Controlled-size Silica Macrospheres as a Microwave-transparent Catalyst System for MACOS. <i>Current Nanoscience</i> , 2016, 12, 448-454.	1.2	3
7	Using a Push-Pull Azobenzene Haptan to Probe Surface-Core Electronic Communication in Surface-Functionalized CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20410-20416.	3.1	1
8	Ethanol as an Alternative Fuel for Automobiles: Using the First Law of Thermodynamics To Calculate the "Corn-Area-per-Car" Ratio. <i>Journal of Chemical Education</i> , 2009, 86, 579.	2.3	5
9	Thiolated poly(μ -caprolactone) macroligand with vacant coordination sites on gold substrate: Synthesis and surface characterization. <i>Surface Science</i> , 2007, 601, 1677-1683.	1.9	3
10	Poly(ϵ -caprolactone)-block-polystyrene metallopolymers via sequential ROP and ATRP condition with in situ generated ruthenium catalyst. <i>Polymer</i> , 2006, 47, 4282-4291.	3.8	11
11	Synthesis and characterization of multifunctional polymers via atom transfer radical polymerization of N-(ϵ -alkylcarbazolyl) methacrylates initiated by Ru(II) polypyridyl chromophores. <i>Journal of Polymer Science Part A</i> , 2005, 43, 6057-6072.	2.3	13
12	Biodegradable Open Cell Foams of Telechelic Poly(μ -caprolactone) Macroligand with Ruthenium (II) Chromophoric Subunits via Sub-Critical CO ₂ Processing. <i>Biomacromolecules</i> , 2005, 6, 2458-2461.	5.4	16
13	Atom transfer radical polymerization of N-(ϵ -alkylcarbazolyl) methacrylates via the use of novel heteroleptic Ru(II) polypyridyl initiator. <i>Inorganica Chimica Acta</i> , 2004, 357, 3813-3824.	2.4	7
14	Electronic Structure and Spectra of Linkage Isomers of Bis(bipyridine)(1,2-dihydroxy-9,10-anthraquinonato)ruthenium(II) and Their Redox Series. <i>Inorganic Chemistry</i> , 2004, 43, 2654-2671.	4.0	39
15	Telechelic poly(μ -caprolactones) with tethered mixed ligand ruthenium(II) chromophores. <i>Canadian Journal of Chemistry</i> , 2004, 82, 595-607.	1.1	17
16	Syntheses, characterization and structures of 2-(2-pyridyl)-4-methylcarboxyquinoline ligand and bis(2,2'-bipyridine)-2-(2-pyridyl)-4-methylcarboxyquinoline ruthenium (II) hexafluorophosphate. <i>Inorganica Chimica Acta</i> , 2003, 343, 295-306.	2.4	9
17	Synthesis, structure and electrochemical properties of tris (2-(2-pyridyl)-4-methylcarbonylquinoline) ruthenium(II) hexafluorophosphate. <i>Inorganic Chemistry Communication</i> , 2003, 6, 662-665.	3.9	6
18	cis-(2,2'-Bipyridine)bis[2-(2-pyridyl)-4-methoxycarbonylquinoline]ruthenium(II) hexafluorophosphate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2001, 57, m274-m276.	0.2	6

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19	Methyl 2-(2-pyridyl)quinoline-4-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o677-o678.	0.2	2
20	Cis-dichloro-bis-2-(2-pyridyl)-4-(methylcarboxy)quinoline ruthenium (II); a novel ruthenium (II) tris-chelated building precursor. Inorganic Chemistry Communication, 2001, 4, 237-240.	3.9	5
21	Surface functionalization of cadmium sulfide quantum confined nanoclusters: Evidence of facile electronic communication between remote surface sites. Polyhedron, 2000, 19, 331-341.	2.2	11
22	REDOX ACTIVE, MULTI-CHROMOPHORE RU(II) POLYPYRIDYL-CARBAZOLE COPOLYMERS: SYNTHESIS AND CHARACTERIZATION. Journal of Macromolecular Science - Pure and Applied Chemistry, 2000, 37, 1507-1529.	2.2	14
23	Synthesis and characterization of partially crosslinked poly(N-vinylcarbazole-vinylalcohol) copolymers with polypyridyl Ru(II) luminophores: Potential materials for electroluminescence. Polymer Bulletin, 1999, 43, 135-142.	3.3	21
24	Surface Functionalization of Cadmium Sulfide Quantum-Confined Nanoclusters. 5. Evidence of Facile Surface-Core Electronic Communication in the Photodecomposition Mechanism of Functionalized Quantum Dots. Chemistry of Materials, 1999, 11, 642-648.	6.7	25
25	Linkage isomers of alizarin-bis(bipyridine)ruthenium(II). Inorganica Chimica Acta, 1998, 281, 126-133.	2.4	17
26	Surface functionalization of cadmium sulfide quantum-confined nanoclusters. 4. Formation and reactivity of an aniline surface quantum dot. Canadian Journal of Chemistry, 1998, 76, 1530-1539.	1.1	7
27	Surface ion association of the hexacyanoferrate(III)/(II) ion bound by 5,10,15,20-tetrakis(1-methyl-4-pyridyl)-21H,23 H-porphine or 5,10,15,20-tetrakis[4-(trimethylammonio)phenyl]-21H,23H-porphine adsorbed on a graphite electrode. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3355-3362.	1.7	4
28	Surface Functionalization of Cadmium Sulfide Quantum-Confined Nanoclusters. 3. Formation and Derivatives of a Surface Phenolic Quantum Dot. Chemistry of Materials, 1997, 9, 2117-2122.	6.7	38
29	Electrochemical Parametrization in Sandwich Complexes of the First Row Transition Metals. Inorganic Chemistry, 1996, 35, 1013-1023.	4.0	128
30	Influence of Remote Ligand Lone Pairs on the Electronic Structure and Spectrum of Bis(bipyridine)ruthenium(II) 3,4-Diamino-3,4'-diimino-3,4'-dihydrobiphenyl. Tuning by External Donors and Acceptors. Inorganic Chemistry, 1996, 35, 7741-7750.	4.0	35
31	Redox coenzyme functionalization of electrochemically grown Prussian blue films. Sensors and Actuators B: Chemical, 1996, 30, 173-178.	7.8	6
32	Phase-frequency relationships in oscillating quartz microbalance electrodes: Determination of an optimal operating frequency for solution-phase microgravimetry. Review of Scientific Instruments, 1995, 66, 1131-1135.	1.3	5
33	Surface Functionalization of Cadmium Sulfide Quantum Confined Semiconductor Nanoclusters. 2. Formation of a "Quantum Dot" Condensation Polymer. Chemistry of Materials, 1995, 7, 1333-1336.	6.7	24
34	Excited State Redox Potentials of Ruthenium Diimine Complexes; Correlations with Ground State Redox Potentials and Ligand Parameters. Inorganic Chemistry, 1995, 34, 1906-1913.	4.0	121
35	First-Principles Interpretation of Ligand Electrochemical (EL(L)) Parameters. Factorization of the .sigma. and .pi. Donor and .pi. Acceptor Capabilities of Ligands. Journal of the American Chemical Society, 1995, 117, 6990-6993.	13.7	78
36	Rational Design of a Light-Driven Molecular Switch Incorporating an Alizarin-Ru(bpy) ₂ Fragment. Inorganic Chemistry, 1995, 34, 1507-1513.	4.0	32

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37	A pulse sequencer and transient nanoammeter system for membrane voltage-dependent capacitance measurements. <i>Review of Scientific Instruments</i> , 1994, 65, 742-746.	1.3	0
38	Rectifying junctions based on metallophthalocyanine thin films. <i>Advanced Materials</i> , 1994, 6, 239-242.	21.0	49
39	Electrochemical reduction of nitrite and nitric oxide catalyzed by an iron-alizarin complexone adsorbed on a graphite electrode. <i>Inorganic Chemistry</i> , 1994, 33, 1392-1398.	4.0	52
40	Linkage Isomers of Ruthenium Alizarin Complexes. <i>Inorganic Chemistry</i> , 1994, 33, 1583-1584.	4.0	31
41	Chemical Functionalization of Cadmium Sulfide Quantum-Confined Microclusters. <i>Chemistry of Materials</i> , 1994, 6, 1593-1595.	6.7	49
42	Deprotonation of Nitroalkanes: Semiempirical Determination of Solvation Effects on a Simple Reaction Coordinate. <i>Journal of Chemical Education</i> , 1994, 71, 416.	2.3	6
43	Effect of donors and acceptors on the twist angle of a ruthenium complex of bis(bipyridine)ruthenium(II) 3,4-diamino-3',4'-diimino-3',4'-dihydrobiphenyl. A bifunctional biphenyl derivative and a potential molecular switch. <i>Inorganic Chemistry</i> , 1993, 32, 3581-3582.	4.0	30
44	A high-stability quartz crystal microbalance electrode for simultaneous solution-phase electrochemistry/microgravitometry. <i>Review of Scientific Instruments</i> , 1993, 64, 1530-1535.	1.3	7
45	Natural bond orbital (NBO) analysis of substituent effects in borazine derivatives. <i>Inorganic Chemistry</i> , 1989, 28, 544-548.	4.0	34
46	Resistivity mechanisms in phthalocyanine-based linear-chain and polymeric conductors: variation of bandwidth with geometry. <i>Journal of the American Chemical Society</i> , 1985, 107, 5387-5391.	13.7	77
47	Molecular orbital theory of the properties of inorganic and organometallic compounds. 3.STO-3G basis sets for first- and second-row transition metals. <i>Journal of Computational Chemistry</i> , 1983, 4, 241-251.	3.3	101
48	Orbital photography. <i>Journal of Computational Chemistry</i> , 1983, 4, 276-282.	3.3	8
49	Tautomerization of dimethyl phosphonate. <i>Journal of the American Chemical Society</i> , 1982, 104, 3594-3595.	13.7	50
50	Thermochemistry of Group IVA isobutene analogs by pulsed ion cyclotron double resonance spectroscopy. <i>Journal of the American Chemical Society</i> , 1982, 104, 4329-4332.	13.7	40
51	Self-consistent molecular-orbital methods. 22. Small split-valence basis sets for second-row elements. <i>Journal of the American Chemical Society</i> , 1982, 104, 2797-2803.	13.7	1,662
52	An ab initio molecular orbital study of the rearrangement of .alpha.-disulfoxide to thiosulfonate. <i>Journal of the American Chemical Society</i> , 1982, 104, 1161-1165.	13.7	32
53	Self-consistent molecular orbital methods. XXIII. A polarization-type basis set for second-row elements. <i>Journal of Chemical Physics</i> , 1982, 77, 3654-3665.	3.0	7,209
54	Molecular orbital theory of the properties of inorganic and organometallic compounds. 2. STO-NG basis sets for fourth-row main-group elements. <i>Inorganic Chemistry</i> , 1981, 20, 3650-3654.	4.0	60

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55	Reaction of molecular oxygen with pyridinehemochromes in aqueous solution. Journal of the American Chemical Society, 1980, 102, 4912-4916.	13.7	3
56	Molecular orbital theory of the properties of inorganic and organometallic compounds. 1. STO-NG basis sets for third-row main-group elements. Inorganic Chemistry, 1980, 19, 2225-2229.	4.0	116
57	Heat of formation of 1,1-dimethylsilaethylene by ion cyclotron resonance spectroscopy. Journal of the American Chemical Society, 1979, 101, 7126-7127.	13.7	19