

Nicholas A Piro

List of Publications by Year in descending order

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2,848
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236925

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docs citations

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times ranked

3294
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#	ARTICLE	IF	CITATIONS
1	Early-Transition-Metal-Mediated Activation and Transformation of White Phosphorus. <i>Chemical Reviews</i> , 2010, 110, 4164-4177.	47.7	403
2	Molecular Cobalt Pentapyridine Catalysts for Generating Hydrogen from Water. <i>Journal of the American Chemical Society</i> , 2011, 133, 9212-9215.	13.7	397
3	Slow magnetic relaxation in a pseudotetrahedral cobalt(II) complex with easy-plane anisotropy. <i>Chemical Communications</i> , 2012, 48, 3927.	4.1	272
4	Triple-Bond Reactivity of Diphosphorus Molecules. <i>Science</i> , 2006, 313, 1276-1279.	12.6	175
5	The electrochemical behavior of cerium(III/IV) complexes: Thermodynamics, kinetics and applications in synthesis. <i>Coordination Chemistry Reviews</i> , 2014, 260, 21-36.	18.8	169
6	A Nitridoniobium(V) Reagent That Effects Acid Chloride to Organic Nitrile Conversion: A Synthesis via Heterodinuclear (Nb/Mo) Dinitrogen Cleavage, Mechanistic Insights, and Recycling. <i>Journal of the American Chemical Society</i> , 2006, 128, 940-950.	13.7	155
7	An Isolable and Monomeric Phosphorus Radical That Is Resonance-Stabilized by the Vanadium(IV/V) Redox Couple. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3111-3114.	13.8	100
8	A mechanistic study of proton reduction catalyzed by a pentapyridine cobalt complex: evidence for involvement of an anation-based pathway. <i>Chemical Science</i> , 2013, 4, 1578.	7.4	98
9	Homoleptic Cerium(III) and Cerium(IV) Nitroxide Complexes: Significant Stabilization of the 4+ Oxidation State. <i>Inorganic Chemistry</i> , 2013, 52, 11600-11607.	4.0	75
10	Triple-Bond Reactivity of an AsP Complex Intermediate: Synthesis Stemming from Molecular Arsenic, As ₄ . <i>Journal of the American Chemical Society</i> , 2009, 131, 16233-16243.	13.7	73
11	Catalytic N ₂ Reduction to Silylamines and Thermodynamics of N ₂ Binding at Square Planar Fe. <i>Journal of the American Chemical Society</i> , 2017, 139, 9291-9301.	13.7	72
12	A Structurally Characterized Nitrous Oxide Complex of Vanadium. <i>Journal of the American Chemical Society</i> , 2011, 133, 2108-2111.	13.7	67
13	P ₂ Addition to Terminal Phosphide M ₂ P Triple Bonds: A Rational Synthesis of <i>cyclo</i> -P ₃ Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 9524-9535.	13.7	63
14	Ammonia Oxidation by Abstraction of Three Hydrogen Atoms from a Mo ^{IV} -NH ₃ Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 2916-2919.	13.7	54
15	Synthesis, Electrochemistry, and Reactivity of Cerium(III/IV) Methylene-Bis-Phenolate Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 5970-5977.	4.0	51
16	Palladium(II) and Platinum(II) Compounds of 1,1'-Bis(phosphino)metallocene (M = Fe, Ru) Ligands with Metal-Metal Interactions. <i>Organometallics</i> , 2013, 32, 5966-5979.	2.3	45
17	A Terminal Nitride-to-Phosphide Conversion Sequence Followed by Tungsten Phosphide Functionalization Using a Diphenylphosphenium Synthon. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 973-976.	13.8	43
18	Ruthenium Complexes are pH-Activated Metallo Prodrugs (pHAMPs) with Light-Triggered Selective Toxicity Toward Cancer Cells. <i>Inorganic Chemistry</i> , 2017, 56, 7519-7532.	4.0	42

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19	A Terminal Molybdenum Arsenide Complex Synthesized from Yellow Arsenic. <i>Inorganic Chemistry</i> , 2009, 48, 9599-9601.	4.0	38
20	Pyridinium-derived N-heterocyclic carbene ligands: syntheses, structures and reactivity of N-(2-pyridyl)pyridin-2-ylidene complexes of nickel(II), palladium(II) and platinum(II). <i>Polyhedron</i> , 2004, 23, 2797-2804.	2.2	36
21	Ethylenebis(triphenylphosphine)platinum as a Probe for Niobium-Mediated Diphosphorus Chemistry. <i>Inorganic Chemistry</i> , 2007, 46, 7387-7393.	4.0	36
22	An Unusual P=O Double Bond Formed via Phospha-Wittig Transformation of a Terminal PO Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 8764-8765.	13.7	34
23	Synthesis and Characterization of Aluminum- μ -diimine Complexes over Multiple Redox States. <i>Inorganic Chemistry</i> , 2014, 53, 3899-3906.	4.0	32
24	Tetraphosphabenzenes Obtained via a Triphosphacyclobutadiene Intermediate. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 934-938.	13.8	28
25	Niobaziridine Hydrides. <i>Organometallics</i> , 2010, 29, 5215-5229.	2.3	27
26	Putting chromium on the map for N ₂ reduction: production of hydrazine and ammonia. A study of cis-M(N ₂) ₂ (M = Cr, Mo, W) bis(diphosphine) complexes. <i>Chemical Communications</i> , 2016, 52, 9343-9346.	4.1	26
27	Synthesis and Characterization of μ -Diimine Complexes of Group 13 Metals and Their Catalytic Activity toward the Epoxidation of Alkenes. <i>Inorganic Chemistry</i> , 2015, 54, 7139-7141.	4.0	25
28	Copper(II) and nickel(II) complexes with two new bis(thiosemicarbazone) ligands: Synthesis, characterization, X-ray crystal structures and their electrochemistry behavior. <i>Inorganica Chimica Acta</i> , 2015, 427, 124-130.	2.4	23
29	Well-Defined Vanadium Organoazide Complexes and Their Conversion to Terminal Vanadium Imides: Structural Snapshots and Evidence for a Nitrene Capture Mechanism. <i>Inorganic Chemistry</i> , 2012, 51, 10037-10042.	4.0	22
30	Late Transition Metal Compounds with 1,1'-bis(phosphino)ferrocene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 424-432.	2.0	20
31	Structural, Computational, and Spectroscopic Investigation of [Pd(η^3 -1,1'-bis(di-tert-butylphosphino)ferrocenediyl)X] ⁺ (X = Cl, Br, I) Compounds. <i>Organometallics</i> , 2016, 35, 462-470.	2.3	19
32	Spectroelectrochemical studies of a ruthenium complex containing the pH sensitive 4,4'-dihydroxy-2,2'-bipyridine ligand. <i>Dalton Transactions</i> , 2018, 47, 4149-4161.	3.3	14
33	Compounds containing weak, non-covalent interactions to the metal in the backbone of 1,1'-bis(phosphino)metallocene ligands. <i>Polyhedron</i> , 2016, 114, 156-164.	2.2	12
34	Synthesis, Characterization, and Catalytic Activity of a Series of Aluminium-Amidate Complexes. <i>Australian Journal of Chemistry</i> , 2015, 68, 357.	0.9	11
35	Synthesis and electrochemical characterization of a tridentate Schiff-base ligated Fe(II) complex. <i>Polyhedron</i> , 2016, 114, 200-204.	2.2	10
36	Structural analysis of imino- and amino-pyridine ligands for Ni(II): Precatalysts for the polymerization of ethylene. <i>Journal of Organometallic Chemistry</i> , 2018, 863, 44-53.	1.8	10

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37	Synthesis and Biological Evaluation of 6-[(1 <i>R</i>)-1-Hydroxyethyl]-2,4a,6 <i>S</i> ,8a-tetrahydropyrano-[3,2- <i>b</i>]-pyran-2-one and Structural Analogues of the Putative Structure of Diplopyrone. <i>Journal of Organic Chemistry</i> , 2019, 84, 666-678.	3.2	9
38	X-ray crystal structural and spectral studies of copper(II) and nickel(II) complexes of two asymmetric bis(thiosemicarbazone) ligands and the investigation of relationship between the N(4)-substituent and the electrochemical behavior. <i>Polyhedron</i> , 2017, 121, 236-244.	2.2	8
39	Structural, electronic and acid/base properties of [Ru(bpy)(bpy(OH) ₂) ₂] ²⁺ (bpy=2,2'-bipyridine.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	2.2	7
40	Synthesis of lemonose derivatives: methyl 4-amino-3-O,4-N-carbonyl-2,4,6-trideoxy-3-C-methyl- β -l-lyxo-pyranoside and its phenyl thioglycoside. <i>Carbohydrate Research</i> , 2015, 409, 63-68.	2.3	7
41	Synthesis and Characterization of Neutral Ligand β -Diimine Complexes of Aluminum with Tunable Redox Energetics. <i>Inorganic Chemistry</i> , 2018, 57, 9622-9633.	4.0	6
42	Synthesis and Structure of Vanadium Halide Complexes Containing Diphosphine Ligands with Pendant Amines. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1293-1299.	2.0	5
43	Spectroscopic, structural and computational analysis of [Re(CO) ₃ (dippM)Br] ⁿ⁺ (dippM = 1,1'-bis(diiso-propylphosphino)metallocene, M =) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	2.2	4
44	Structural characterization and electrochemical properties of nickel (II) complexes bearing sterically bulky hydrotris(3-phenyl)- and hydrotris(3-tert-butylpyrazol-1-yl)borato ligands. <i>Polyhedron</i> , 2016, 114, 172-178.	2.2	4
45	Synthesis, structures and characterization of complexes containing a 2,6-bis(guanidinyl)pyridine ligand on iron(II), cobalt(II), nickel(II), copper(I), copper(II) and zinc(II). <i>Polyhedron</i> , 2018, 155, 77-84.	2.2	4
46	Electrochemical parameterization of 1,1'-disubstituted cobaltocenium compounds. <i>Journal of Organometallic Chemistry</i> , 2014, 750, 107-111.	1.8	3
47	Reprint of: Structural, electronic and acid/base properties of [Ru(bpy)(bpy(OH) ₂) ₂] ²⁺ (bpy =) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	2.2	3
48	Amino pyridine iron(II) complexes: Characterization and catalytic application for atom transfer radical polymerization and catalytic chain transfer. <i>Journal of Organometallic Chemistry</i> , 2020, 924, 121456.	1.8	3
49	Synthesis and reactivity of oxygen ligated molybdenum(II) carbonyl complexes. <i>Polyhedron</i> , 2014, 84, 51-58.	2.2	2
50	Crystal structures of β -tricarboxylchlorido(6,6'-dihydroxy-2,2'-bipyridine)rhenium(I) tetrahydrofuran monosolvate and β -bromidotricarbonyl(6,6'-dihydroxy-2,2'-bipyridine)manganese(I) tetrahydrofuran monosolvate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016, 72, 1201-1205.	0.5	2
51	Expanding the Scope of an Electrophilic Aromatic Substitution Discovery Experiment Including Hydride and Methyl Shifts. <i>Journal of Chemical Education</i> , 2021, 98, 3999-4008.	2.3	2
52	Conformations of N,N-diethyl- β -alanine and β -alanine as a function of solvent. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 418-422.	1.9	1
53	Synthesis, X-ray Crystallographic and Computational Analysis of 2,3-Dideoxy- β - and β -D-erythro-Hexopyranosyl Cyanides: Anomeric Effect of the Cyano Group. <i>ACS Symposium Series</i> , 2017, , 155-170.	0.5	0