

Scott W Kassel

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	[Ni(P ^{sup} Ph ₂ N ^{sup} C6H4X ₂) ₂] ²⁺ Complexes as Electrocatalysts for H ₂ Production: Effect of Substituents, Acids, and Water on Catalytic Rates. <i>Journal of the American Chemical Society</i> , 2011, 133, 5861-5872.	6.6	357
2	Studies of a Series of [Ni(P ^{sup} R ₂ N ^{sup} Ph ₂) ₂ (CH ₃ CN)] ²⁺ Complexes as Electrocatalysts for H ₂ Production: Substituent Variation at the Phosphorus Atom of the P ₂ N ₂ Ligand. <i>Inorganic Chemistry</i> , 2011, 50, 10908-10918.	1.9	141
3	Two Pathways for Electrocatalytic Oxidation of Hydrogen by a Nickel Bis(diphosphine) Complex with Pendant Amines in the Second Coordination Sphere. <i>Journal of the American Chemical Society</i> , 2013, 135, 9700-9712.	6.6	119
4	Hydrogen oxidation catalysis by a nickel diphosphine complex with pendant tert-butyl amines. <i>Chemical Communications</i> , 2010, 46, 8618.	2.2	107
5	Comparison of Cobalt and Nickel Complexes with Sterically Demanding Cyclic Diphosphine Ligands: Electrocatalytic H ₂ Production by [Co(P ^{sup} it/i ^{sup} Bu ₂ N ^{sup} Ph ₂)(CH ₃ CN) ₃](BF ₄) ₃ . <i>Organometallics</i> , 2010, 29, 5390-5401.	1.1	105
6	Concise Total Syntheses of (±)-Strychnine and (±)-Akuammicine. <i>Journal of Organic Chemistry</i> , 2010, 75, 3529-3532.	1.7	97
7	Thermodynamic Studies and Hydride Transfer Reactions from a Rhodium Complex to BX ₃ Compounds. <i>Journal of the American Chemical Society</i> , 2009, 131, 14454-14465.	6.6	93
8	Isomeric 2,6-Pyridino-Cryptands Based on Dibenzo-24-crown-8. <i>Journal of Organic Chemistry</i> , 2007, 72, 3381-3393.	1.7	85
9	Reduction of oxygen catalyzed by nickel diphosphine complexes with positioned pendant amines. <i>Dalton Transactions</i> , 2010, 39, 3001.	1.6	82
10	Dinitrogen Reduction by a Chromium(0) Complex Supported by a 16-Membered Phosphorus Macrocyclic. <i>Journal of the American Chemical Society</i> , 2013, 135, 11493-11496.	6.6	81
11	Reversible Expansion and Contraction of a 1,2-Diborylated Ferrocene Dimer Promoted by Redox Chemistry and Nucleophile Binding. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5428-5433.	7.2	80
12	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.	6.6	72
13	Stabilization of Nickel Complexes with NiO ²⁺ N Bonding Interactions Using Sterically Demanding Cyclic Diphosphine Ligands. <i>Organometallics</i> , 2012, 31, 144-156.	1.1	66
14	Cobalt Complexes Containing Pendant Amines in the Second Coordination Sphere as Electrocatalysts for H ₂ Production. <i>Organometallics</i> , 2014, 33, 5820-5833.	1.1	66
15	Synthesis and Electrochemical Studies of Cobalt(III) Monohydride Complexes Containing Pendant Amines. <i>Inorganic Chemistry</i> , 2013, 52, 9975-9988.	1.9	62
16	P ^σ C and C ^σ C Bond Formation by Michael Addition in Platinum-Catalyzed Hydrophosphination and in the Stoichiometric Reactions of Platinum Phosphido Complexes with Activated Alkenes. <i>Organometallics</i> , 2006, 25, 5757-5767.	1.1	61
17	Synthesis and Hydride Transfer Reactions of Cobalt and Nickel Hydride Complexes to BX ₃ Compounds. <i>Inorganic Chemistry</i> , 2011, 50, 11914-11928.	1.9	61
18	The long and short of it: the influence of N-carboxyethyl versus N-carboxymethyl pendant arms on in vitro and in vivo behavior of copper complexes of cross-bridged tetraamine macrocycles. <i>Dalton Transactions</i> , 2007, , 2150.	1.6	60

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19	Experimental and Computational Study of the Transformation of Terminal Alkynes to Vinylidene Ligands on trans-(Chloro)bis(phosphine)Rh Fragments and Effects of Phosphine Substituents. <i>Organometallics</i> , 2007, 26, 3385-3402.	1.1	60
20	Structural, Electronic, and Acid/Base Properties of [Ru(bpy) ₂ (bpy(OH) ₂)] ²⁺ (bpy = 2,2'-Bipyridine, bpy(OH) ₂ = 1,1'-ETQQ). <i>Inorg Chem</i> , 2010, 49, 1000-1007.	1.1	50
21	Ammonia Oxidation by Abstraction of Three Hydrogen Atoms from a Mo ^{VI} -NH ₃ Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 2916-2919.	6.6	54
22	New Synthetic Routes to Cationic Rhenium Tricarbonyl Bipyridine Complexes with Labile Ligands. <i>Inorganic Chemistry</i> , 2002, 41, 4673-4679.	1.9	52
23	A rare terminal dinitrogen complex of chromium. <i>Chemical Communications</i> , 2011, 47, 12212.	2.2	52
24	Insertion Reactions of Carbon Dioxide into Zn ^{II} -N Bonds: Syntheses and Structures of Tetrameric and Dimeric Alkylzinc Carbamate Complexes. <i>Inorganic Chemistry</i> , 2005, 44, 359-364.	1.9	51
25	Ruthenium dihydroxybipyridine complexes are tumor activated prodrugs due to low pH and blue light induced ligand release. <i>Journal of Inorganic Biochemistry</i> , 2014, 130, 103-111.	1.5	49
26	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.	1.1	45
27	Tris(mercaptoimidazolyl)borate complexes of the coinage metals: syntheses and molecular structures of the first gold compounds and related copper and silver derivatives. <i>Dalton Transactions</i> , 2005, , 2410.	1.6	44
28	Efficient Synthesis and Structural Characteristics of Zwitterionic Twisted π -Electron System Biaryls. <i>Organic Letters</i> , 2005, 7, 3721-3724.	2.4	43
29	Syntheses of Oligometalloles by Catalytic Dehydrocoupling. <i>Organometallics</i> , 2005, 24, 3081-3087.	1.1	43
30	Ruthenium Complexes are pH-Activated Metallo Prodrugs (pHAMPs) with Light-Triggered Selective Toxicity Toward Cancer Cells. <i>Inorganic Chemistry</i> , 2017, 56, 7519-7532.	1.9	42
31	Chirality Breeding via Asymmetric Phosphination. Palladium-Catalyzed Diastereoselective Synthesis of a P-Stereogenic Phosphine. <i>Organometallics</i> , 2006, 25, 1742-1748.	1.1	41
32	Titanium complexes with chiral amino alcohol ligands: synthesis and structure of complexes related to hydroamination catalysts. <i>Inorganica Chimica Acta</i> , 2005, 358, 687-694.	1.2	39
33	Synthesis, Characterization, and Electrochemistry of Compounds Containing 1-Diphenylphosphino-1'-di- <i>tert</i> -butylphosphino)ferrocene (dppdtbpf). <i>Organometallics</i> , 2009, 28, 2119-2126.	1.1	37
34	Syntheses and structures of mono-thiocyanate complexes of cadmium(II) and lead(II) containing bulky nitrogen based polydentate ligands. <i>Polyhedron</i> , 2002, 21, 1795-1807.	1.0	34
35	Synthesis and reactivity of molybdenum and tungsten bis(dinitrogen) complexes supported by diphosphine chelates containing pendant amines. <i>Dalton Transactions</i> , 2012, 41, 4517.	1.6	34
36	Synthesis and structural characterization of solvated calcium amides containing bulky silylamide ligands. <i>Inorganica Chimica Acta</i> , 2005, 358, 2014-2022.	1.2	33

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37	Synthesis, Structures, and Reactions of Manganese Complexes Containing Diphosphine Ligands with Pendant Amines. <i>Organometallics</i> , 2010, 29, 4532-4540.	1.1	33
38	Synthesis and Characterization of Aluminum- μ -diimine Complexes over Multiple Redox States. <i>Inorganic Chemistry</i> , 2014, 53, 3899-3906.	1.9	32
39	Anion influence in the structural diversity of cadmium coordination polymers constructed from a pyridine based Schiff base ligand. <i>Inorganica Chimica Acta</i> , 2015, 427, 87-96.	1.2	32
40	Protonation Studies of a Mono-Dinitrogen Complex of Chromium Supported by a 12-Membered Phosphorus Macrocycle Containing Pendant Amines. <i>Inorganic Chemistry</i> , 2015, 54, 4827-4839.	1.9	32
41	Rediscovering Pasteur's Quasiracemates. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 78-81.	7.2	31
42	Structural, electronic and acid/base properties of $[\text{Ru}(\text{bpy}(\text{OH})_2)_3]^{2+}$ ($\text{bpy}(\text{OH})_2 = \text{Tj ETQq0 0 0 rgBT /Overlock 1Q Tf 50 542 Td (4,4\hat{a}e$	1.6	31
43	Electrochemistry of 1,1'-Bis(2,4-dialkylphosphetanyl)ferrocene and 1,1'-Bis(2,5-dialkylphospholanyl)ferrocene Ligands: Free Phosphines, Metal Complexes, and Chalcogenides. <i>Inorganic Chemistry</i> , 2010, 49, 9718-9727.	1.9	30
44	Protonation of Ferrous Dinitrogen Complexes Containing a Diphosphine Ligand with a Pendant Amine. <i>Inorganic Chemistry</i> , 2013, 52, 4026-4039.	1.9	28
45	Examination of the Pyridine Binding to the Bifunctional Lewis Acid B, $\hat{a}e^2$ -Diphenyldiboradiferrocene. <i>Organometallics</i> , 2008, 27, 3056-3064.	1.1	27
46	Putting chromium on the map for N_2 reduction: production of hydrazine and ammonia. A study of $\text{cis-M}(\text{N}_2)_2$ ($\text{M} = \text{Cr, Mo, W}$) bis(diphosphine) complexes. <i>Chemical Communications</i> , 2016, 52, 9343-9346.	2.2	26
47	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.	1.9	25
48	Electrocatalytic Hydrogen Production by a Nickel Complex Containing a Tetradentate Phosphine Ligand. <i>Organometallics</i> , 2019, 38, 1269-1279.	1.1	25
49	Enyne [4 + 4] Photocycloaddition: Bridged 1,2,5-Cyclooctatrienes. <i>Organic Letters</i> , 2010, 12, 3296-3299.	2.4	24
50	N-H $\hat{A} \hat{A} \hat{S}$ Hydrogen Bonds in a Ferredoxin Model. <i>Inorganic Chemistry</i> , 2005, 44, 3777-3779.	1.9	23
51	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.	1.2	23
52	An Investigation into Rigidity $\hat{a}e$ Activity Relationships in BisQAC Amphiphilic Antiseptics. <i>ChemMedChem</i> , 2019, 14, 83-87.	1.6	22
53	Intramolecular Pyridone/Enyne Photocycloaddition: Partitioning of the [4 + 4] and [2 + 2] Pathways. <i>Organic Letters</i> , 2011, 13, 2180-2183.	2.4	20
54	Late Transition Metal Compounds with 1,1'- $\hat{a}e$ Bis(phosphino)ferrocene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 424-432.	1.0	20

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55	Structural, Computational, and Spectroscopic Investigation of $[Pd(\eta^3\text{-}1,1\text{-bis}(\text{di-}t\text{-butylphosphino})\text{ferrocenediyl})X]^{+}$ ($X = \text{Cl, Br, I}$) Compounds. <i>Organometallics</i> , 2016, 35, 462-470.	1.1	19
56	Structural Studies of Racemates and Quasiracemates: Chloro, Bromo, and Methyl Adducts of 2-Phenoxypropionic Acid. <i>Crystal Growth and Design</i> , 2008, 8, 612-619.	1.4	18
57	Capturing a Ghost. Synthesis and Structural Characterization of $Pd(dba)[P(o\text{-Tol})_3]_2$. <i>Organometallics</i> , 2013, 32, 3570-3573.	1.1	17
58	Structural Studies of Enantiomers, Racemates, and Quasiracemates. 2-(3-Bromophenoxy)propionic Acid and 2-(3-Methoxyphenoxy)propionic Acid. <i>Crystal Growth and Design</i> , 2008, 8, 3863-3870.	1.4	16
59	Synthesis and Protonation Studies of Molybdenum(0) Bis(dinitrogen) Complexes Supported by Diphosphine Ligands Containing Pendant Amines. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 105-117.	0.6	15
60	Synthesis and spectroelectrochemistry of transition metal carbonyls with 1,1-bis(phosphino)metallocene ligands. <i>Journal of Organometallic Chemistry</i> , 2012, 712, 37-45.	0.8	14
61	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.	1.6	14
62	Bis(dialkylaminophosphino)ferrocenes: Reactivity and electrochemistry. <i>Inorganica Chimica Acta</i> , 2010, 364, 30-38.	1.2	13
63	Synthesis, Characterization and Crystal Structure of Zn(II) and Cd(II) One- and Two-Dimensional Coordination Polymers Derived from Pyridine Based Schiff Base ligand. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 860-868.	1.9	13
64	X-ray crystal structural and spectral studies of copper(II) and nickel(II) complexes of functionalized bis(thiosemicarbazone) ligands and investigation of their electrochemical behavior. <i>Inorganica Chimica Acta</i> , 2019, 484, 527-534.	1.2	13
65	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.	1.0	12
66	Synthesis, Characterization, and Catalytic Activity of a Series of Aluminium Amide Complexes. <i>Australian Journal of Chemistry</i> , 2015, 68, 357.	0.5	11
67	Synthesis and Structure of $[Et_3NH][Fe(HL)_2][H_3L = \text{3,5-di-}t\text{-butyl-2-hydroxybenzylamino)succinic Acid}]$ and Its Catalytic Activity towards Efficient Photodegradation of Dyes in the Presence of H_2O_2 . <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5125-5134.	1.0	10
68	Catalytic ring-closing reactions of gold compounds containing bis(phosphino)ferrocene ligands. <i>Journal of Organometallic Chemistry</i> , 2019, 889, 1-8.	0.8	10
69	An unusual course of thioglycoside activation with bromine: synthesis and crystal structure of 4-O-acetyl-2-bromo-2,3,6-trideoxy-3-C-methyl-3-trifluoroacetamido- β -l-allopyranosyl bromide. <i>Carbohydrate Research</i> , 2003, 338, 1121-1125.	1.1	9
70	Taniaphos and Walphos ligands: Oxidative electrochemistry and complexation. Synthesis, characterization, oxidative electrochemistry and X-ray structures of $[(\text{Taniaphos/Walphos})MCl_2]$ ($M = \text{Pd}$ or Pt). <i>Inorganica Chimica Acta</i> , 2008, 361, 3283-3293.	1.2	9
71	Nonexponential Solid State 1H and ^{19}F Spin Lattice Relaxation, Single-crystal X-ray Diffraction, and Isolated-Molecule and Cluster Electronic Structure Calculations in an Organic Solid: Coupled Methyl Group Rotation and Methoxy Group Libration in 4,4-Dimethoxyoctafluorobiphenyl. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11946-11956.	1.1	9
72	Synthesis and Biological Evaluation of 6-[(1 <i>R</i>)-1-Hydroxyethyl]-2,4a(<i>R</i>),6(<i>S</i>),8a(<i>R</i>)-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.	1.7	9

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73	Methyl and t-butyl reorientation in an organic molecular solid. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 86-91.	1.5	8
74	Synthesis and electrochemistry of 1,1- λ^2 -bis(phosphino)cobaltocenium compounds. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 3882-3894.	0.8	8
75	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.	1.0	8
76	Palladium Complexes with Aqueous-Partitioning Dibenzyldeneacetone Ligands. A New Strategy for Catalyst Design in Suzuki Polycondensation Reactions. <i>Macromolecules</i> , 2009, 42, 8611-8614.	2.2	7
77	Synthesis of a series of first-row tris-imidazolylphosphine sandwich complexes and their potential for formation of polymetallic species. <i>Inorganica Chimica Acta</i> , 2010, 364, 120-124.	1.2	7
78	Synthesis, characterization, X-ray structure, spectroscopic and electrochemical studies of copper and zinc complexes with two new polydentate ligands. <i>Inorganica Chimica Acta</i> , 2014, 414, 115-120.	1.2	7
79	Bis-tropolonate complexes of tungsten: scaffolds for selective side-on binding of nitriles, imines and ketones. <i>Dalton Transactions</i> , 2014, 43, 8738-8748.	1.6	7
80	Structural, electronic and acid/base properties of $[\text{Ru}(\text{bpy})(\text{bpy}(\text{OH})_2)_2]^{2+}$ (bpy=2,2'-bipyridine.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.0	7
81	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.	1.1	7
82	Synthesis and Characterization of Neutral Ligand λ^2 -Diimine Complexes of Aluminum with Tunable Redox Energetics. <i>Inorganic Chemistry</i> , 2018, 57, 9622-9633.	1.9	6
83	Synthesis and Structure of Vanadium Halide Complexes Containing Diphosphine Ligands with Pendant Amines. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1293-1299.	1.0	5
84	Synthesis and x-ray crystallographic analysis of 4,6-di-O-acetyl-2,3-dideoxy- β -d-threo-hexopyranosyl cyanide. <i>Carbohydrate Research</i> , 2016, 425, 40-42.	1.1	5
85	Spectroscopic, structural and computational analysis of $[\text{Re}(\text{CO})_3(\text{dippM})\text{Br}]^n$ (dippM = 1,1- λ^2 -bis(diiso-propylphosphino)metallocene, M =) <i>Tj ETQq1 1 0.784314</i>		
86	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.	1.0	4
87	Synthesis and characterization of a hydro tris(3-phenylpyrazolyl)borato nickel(II) semiquinonate adduct. <i>Polyhedron</i> , 2019, 162, 165-170.	1.0	4
88	A Photochemical Metallocene Route to Anionic Eneidyne: Synthesis, Solid-State Structures, and ab Initio Computations on Cyclopentadienoidenediynes. <i>Journal of the American Chemical Society</i> , 2010, 132, 11030-11032.	6.6	3
89	Electrochemical parameterization of 1,1- λ^2 -disubstituted cobaltocenium compounds. <i>Journal of Organometallic Chemistry</i> , 2014, 750, 107-111.	0.8	3
90	Reprint of: Structural, electronic and acid/base properties of $[\text{Ru}(\text{bpy})(\text{bpy}(\text{OH})_2)_2]^{2+}$ (bpy =) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T</i>	1.0	3

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91	Synthesis and reactivity of oxygen ligated molybdenum(II) carbonyl complexes. Polyhedron, 2014, 84, 51-58.	1.0	2
92	Synthesis and Catalytic Activity of a Cationic Pd(II) N-heterocyclic Carbene Complex. Polyhedron, 2016, 114, 317-324.	1.0	2
93	INVESTIGATION OF THE BINDING ABILITY OF A NEW THIOSEMICARBAZONE-BASED LIGAND AND ITS Zn(II) COMPLEX TOWARD PROTEINS AND DNA: SPECTRAL, STRUCTURAL, THEORETICAL, AND DOCKING STUDIES. Journal of Structural Chemistry, 2021, 62, 748-761.	0.3	2
94	Crystal structures of <i>fac</i> -tricarbonylchlorido(6,6'-dihydroxy-2,2'-bipyridine)rhenium(I) tetrahydrofuran monosolvate and <i>fac</i> -bromidotricarbonyl(6,6'-dihydroxy-2,2'-bipyridine)manganese(I) tetrahydrofuran monosolvate. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 1201-1205.	0.2	2
95	Synthesis and crystal structure of (2 <i>S</i> ,4 <i>R</i> ,8 <i>R</i>)-6-oxo-2,4a,6,8a-tetrahydropyrano[3,2- <i>b</i>]pyran-2-carboxamide. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 761-764.	0.2	1
96	Synthesis, X-ray Crystallographic and Computational Analysis of 2,3-Dideoxy- β - and β -D-erythro-Hexopyranosyl Cyanides: Anomeric Effect of the Cyano Group. ACS Symposium Series, 2017, , 155-170.	0.5	0