

# David S Glueck

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96  
papers

3,686  
citations

34  
h-index

57  
g-index

115  
ext. papers

4,079  
ext. citations

5.5  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
96	Intramolecular attack on coordinated nitriles: metallacycle intermediates in catalytic hydration and beyond. <i>Dalton Transactions</i> , <b>2021</b> , 50, 15953-15960	4.3	0
95	Catalytic Asymmetric Synthesis of P-Stereogenic Phosphines: Beyond Precious Metals. <i>Synlett</i> , <b>2021</b> , 32, 875-884	2.2	10
94	Metal-Catalyzed P-C Bond Formation via P-H Oxidative Addition: Fundamentals and Recent Advances. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 14276-14285	4.2	16
93	Diastereoselective Synthesis of P-Stereogenic Secondary Phosphine Oxides (SPOs) Bearing a Chiral Substituent by Ring Opening of (+)-Limonene Oxide with Primary Phosphido Nucleophiles. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 14516-14526	4.2	2
92	Synthesis, Structure, Dynamics, and Enantioface-Selective $\beta$ -Benzyl Coordination in the Chiral Rhodium Complexes Rh(diphos*)( $\beta$ -CH <sub>2</sub> Ph). <i>Organometallics</i> , <b>2020</b> , 39, 3802-3816	3.8	
91	Diastereoselective Coordination of P-Stereogenic Secondary Phosphines in Copper(I) Chiral Bis(phosphine) Complexes: Structure, Dynamics, and Generation of Phosphido Complexes. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 8854-8865	5.1	4
90	Inversion of Configuration at the Phosphorus Nucleophile in the Diastereoselective and Enantioselective Synthesis of P-Stereogenic syn-Phosphiranes from Chiral Epoxides. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5047-5051	16.4	13
89	Synthesis and Structure of Metal Complexes of P-Stereogenic Chiral Phosphiranes: An EDA-NOCV Analysis of the Donor-Acceptor Properties of Phosphirane Ligands. <i>Organometallics</i> , <b>2018</b> , 37, 1473-1482 <sup>3.8</sup>		4
88	Inversion of Configuration at the Phosphorus Nucleophile in the Diastereoselective and Enantioselective Synthesis of P-Stereogenic syn-Phosphiranes from Chiral Epoxides. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 5141-5145	3.6	0
87	Oxidative addition of methylene chloride to Me-DuPhos complexes of palladium and rhodium. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 483, 111-115	2.7	5
86	Chiral Bis(Phospholane) PCP Pincer Complexes: Synthesis, Structure, and Nickel-Catalyzed Asymmetric Phosphine Alkylation. <i>Organometallics</i> , <b>2018</b> , 37, 2159-2166	3.8	16
85	Copper-Phosphido Intermediates in Cu(IPr)-Catalyzed Synthesis of 1-Phosphapyracenes via Tandem Alkylation/Arylation of Primary Phosphines. <i>Organometallics</i> , <b>2018</b> , 37, 1760-1772	3.8	7
84	Synthesis, Structure, and Luminescence of Copper(I) Halide Complexes of Chiral Bis(phosphines). <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 12809-12820	5.1	25
83	Rhodium-Catalyzed Isomerization of a Bis(secondary phosphine) to an Unsymmetrical Diphosphine via PC Cleavage and PB and CB Bond Formation. <i>Organometallics</i> , <b>2017</b> , 36, 3387-3397	3.8	12
82	Effect of Linker Length on Selectivity and Cooperative Reactivity in Platinum-Catalyzed Asymmetric Alkylation of Bis(phenylphosphino)alkanes. <i>ACS Catalysis</i> , <b>2016</b> , 6, 8106-8114	13.1	13
81	Synthesis of a phosphapyracene via metal-mediated cyclization: structural and reactivity effects of acenaphthene precursors. <i>Dalton Transactions</i> , <b>2015</b> , 44, 9943-54	4.3	3
80	Selective formation of a C <sub>3</sub> -symmetric P-stereogenic tris(phosphine) via platinum-catalyzed asymmetric alkylation of a tris(secondary phosphine). <i>Tetrahedron: Asymmetry</i> , <b>2015</b> , 26, 1459-1468		5

79	Synthesis, structure, and luminescence of the octahedral cluster $\text{Cu}_4\text{I}_4(\text{rac-IsMePCH}_2\text{PMe})_2$ ( $\text{Is} = 2,4,6\text{-}(i\text{-Pr})_3\text{C}_6\text{H}_2$ ). <i>Inorganica Chimica Acta</i> , <b>2015</b> , 427, 168-172	2.7	8
78	Synthesis, Structure, Dynamics, and Selective Methylation of Platinum and Palladium Diphosphametallacyclobutane Complexes. <i>Organometallics</i> , <b>2012</b> , 31, 5573-5585	3.8	9
77	Synthesis and Structure of Platinum Bis(phospholane) Complexes $\text{Pt}(\text{diphos}^*)(\text{R})(\text{X})$ , Catalyst Precursors for Asymmetric Phosphine Alkylation. <i>Organometallics</i> , <b>2012</b> , 31, 6900-6910	3.8	15
76	Asymmetric Synthesis and Metal Complexes of a C <sub>3</sub> -Symmetric P-Stereogenic Triphosphine, (R)-MeSi(CH <sub>2</sub> PMe(t-Bu)) <sub>3</sub> (MT-Siliphos). <i>Organometallics</i> , <b>2012</b> , 31, 775-778	3.8	20
75	Synthesis, reactivity, and resolution of a C <sub>2</sub> -symmetric, P-stereogenic benzodiphosphetane, a building block for chiral bis(phosphines). <i>Organic Letters</i> , <b>2012</b> , 14, 4238-41	6.2	20
74	Synthesis and Structure of Gold and Platinum Menthyl Complexes. <i>Organometallics</i> , <b>2011</b> , 30, 1812-1817	3.8	11
73	Selectivity via catalyst or substrate control in catalytic asymmetric transformations of bifunctional symmetrical substrates. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 1099	5.5	15
72	Synthesis, structure and spectroscopic properties of 2,3-bis(diphenylphosphino)quinoxaline (dppQx) and its copper(I) complexes. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 369, 55-61	2.7	18
71	Electrochemistry of P(CH <sub>2</sub> Fc) <sub>3</sub> and derivatives. <i>Journal of Organometallic Chemistry</i> , <b>2011</b> , 696, 2259-2263	6.2	7
70	Effects of Linker Length on the Rate and Selectivity of Platinum-Catalyzed Asymmetric Alkylation of the Bis(isitylphosphino)alkanes $\text{IsHP}(\text{CH}_2)_n\text{PHIs}$ ( $\text{Is} = 2,4,6\text{-}(i\text{-Pr})_3\text{C}_6\text{H}_2$ , $n = 1\text{B}$ ). <i>Organometallics</i> , <b>2010</b> , 29, 2465-2473	3.8	19
69	Synthesis and structure of intermediates in copper-catalyzed alkylation of diphenylphosphine. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7650-62	5.1	50
68	Platinum-Catalyzed Asymmetric Alkylation of Bis(isitylphosphino)ethane: Stereoselectivity Reversal in Successive Formation of Two P-C Bonds. <i>Organometallics</i> , <b>2010</b> , 29, 378-388	3.8	32
67	Synthesis of gold phosphido complexes derived from bis(secondary) phosphines. structure of tetrameric $[\text{Au}(\text{MesP}(\text{CH}_2)_2)_3\text{PMesAu}]_4$ . <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 3950-7	5.1	21
66	Recent Advances in Metal-Catalyzed C-C Bond Formation. <i>Topics in Organometallic Chemistry</i> , <b>2010</b> , 65-100	6.2	137
65	Synthesis and structure of ferrocenylmethylphosphines, their borane adducts, and some related derivatives. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 2279-2289	2.3	23
64	Metal-catalyzed nucleophilic carbon-heteroatom (C-X) bond formation: the role of M-X intermediates. <i>Dalton Transactions</i> , <b>2008</b> , 5276-86	4.3	53
63	Platinum-catalyzed enantioselective tandem alkylation/arylation of primary phosphines. Asymmetric synthesis of P-stereogenic 1-phosphaacenaphthenes. <i>Organic Letters</i> , <b>2008</b> , 10, 4425-8	6.2	58
62	Substrate and Catalyst Screening in Platinum-Catalyzed Asymmetric Alkylation of Bis(secondary) Phosphines. Synthesis of an Enantiomerically Pure C <sub>2</sub> -Symmetric Diphosphine. <i>Organometallics</i> , <b>2008</b> , 27, 4992-5001	3.8	50

61	Synthesis and Characterization of Gold Nanoparticles with Surface Ligands Derived from a Primary Phosphine. <i>Journal of Cluster Science</i> , <b>2008</b> , 19, 445-458	3	6
60	Catalytic asymmetric synthesis of chiral phosphanes. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 7108-17	4.8	195
59	Applications of <sup>31</sup> P NMR spectroscopy in development of M(Duphos)-catalyzed asymmetric synthesis of P-stereogenic phosphines (M=Pt or Pd). <i>Coordination Chemistry Reviews</i> , <b>2008</b> , 252, 2171-2179	23.2	46
58	Enantioselective synthesis of P-stereogenic benzophospholanes via palladium-catalyzed intramolecular cyclization. <i>Organic Letters</i> , <b>2007</b> , 9, 1109-12	6.2	63
57	Platinum-Catalyzed Asymmetric Alkylation of a Secondary Phosphine: Mechanism and Origin of Enantioselectivity. <i>Organometallics</i> , <b>2007</b> , 26, 1788-1800	3.8	55
56	Palladium-catalyzed asymmetric phosphination. Scope, mechanism, and origin of enantioselectivity. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 6847-58	16.4	117
55	Metal-Catalyzed Asymmetric Synthesis of P-Stereogenic Phosphines. <i>Synlett</i> , <b>2007</b> , 2007, 2627-2634	2.2	131
54	Platinum-catalyzed asymmetric alkylation of secondary phosphines: enantioselective synthesis of p-stereogenic phosphines. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 2788-9	16.4	146
53	P $\sigma$ and C $\sigma$ Bond Formation by Michael Addition in Platinum-Catalyzed Hydrophosphination and in the Stoichiometric Reactions of Platinum Phosphido Complexes with Activated Alkenes. <i>Organometallics</i> , <b>2006</b> , 25, 5757-5767	3.8	55
52	Platinum(II) Phosphido Complexes as Metalloligands. Structural and Spectroscopic Consequences of Conversion from Terminal to Bridging Coordination. <i>Organometallics</i> , <b>2006</b> , 25, 3370-3378	3.8	27
51	Regiochemistry of Platinum-Catalyzed Hydrophosphination of a Diene. Formation of the Chiral Diphosphine Et <sub>2</sub> PCH(CN)CH(CH <sub>2</sub> CH <sub>2</sub> CN)PEt <sub>2</sub> via Monophosphine Intermediates. <i>Organometallics</i> , <b>2006</b> , 25, 536-539	3.8	29
50	Chiral Platinum Duphos Terminal Phosphido Complexes: Synthesis, Structure, Phosphido Transfer, and Ligand Behavior. <i>Organometallics</i> , <b>2006</b> , 25, 5435-5448	3.8	26
49	Chirality Breeding via Asymmetric Phosphination. Palladium-Catalyzed Diastereoselective Synthesis of a P-Stereogenic Phosphine. <i>Organometallics</i> , <b>2006</b> , 25, 1742-1748	3.8	36
48	Synthesis, Structure, and Electrochemistry of an Electron-Rich Chiral Diaminoferrocene, (S,S)-Bis(2,5-dimethylpyrrolidiny)ferrocene. <i>Organometallics</i> , <b>2005</b> , 24, 5184-5187	3.8	7
47	Chiral Palladium(0) trans-Stilbene Complexes: Synthesis, Structure, and Oxidative Addition of Phenyl Iodide. <i>Organometallics</i> , <b>2005</b> , 24, 2730-2746	3.8	70
46	A Protic Additive Suppresses Formation of Byproducts in Platinum-Catalyzed Hydrophosphination of Activated Olefins. Evidence for P $\sigma$ and C $\sigma$ Bond Formation by Michael Addition. <i>Organometallics</i> , <b>2005</b> , 24, 4871-4874	3.8	90
45	Alkyne-Functional Homopolymers and Block Copolymers through Nitroxide-Mediated Free Radical Polymerization of 4-(Phenylethynyl)styrene. <i>Macromolecules</i> , <b>2005</b> , 38, 2116-2121	5.5	32
44	Diastereoselective Palladium-Mediated Phosphetane Ring Opening and Pd-to-P Phenyl Migration. Synthesis of a New P-Stereogenic C <sub>2</sub> -Symmetric Diphosphine Ligand. <i>Organometallics</i> , <b>2004</b> , 23, 2228-2230	23.8	21

43	Synthesis and characterization of phosphido-monolayer-protected gold nanoclusters. <i>Langmuir</i> , <b>2004</b> , 20, 10379-81	4	19
42	Phenylethynylstyrene-Cobalt Carbonyl Block Copolymer Composites. <i>Macromolecules</i> , <b>2004</b> , 37, 8967-8975	3.5	59
41	Synthesis and Structure of Cyclic Gold(I) Phosphanyl Complexes $[[Au(PR_2)]_n]$ . <i>Angewandte Chemie</i> , <b>2003</b> , 115, 1076-1078	3.6	14
40	Synthesis and structure of cyclic gold(I) phosphanyl complexes $[[Au(PR_2)]_n]$ . <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 1046-8	16.4	31
39	Palladium-Catalyzed Asymmetric Phosphination. Enantioselective Synthesis of PAMP-BH <sub>3</sub> , Ligand Effects on Catalysis, and Direct Observation of the Stereochemistry of Transmetalation and Reductive Elimination. <i>Organometallics</i> , <b>2003</b> , 22, 3205-3221	3.8	61
38	Stereochemistry of palladium-mediated synthesis of PAMP-BH <sub>3</sub> : retention of configuration at P in formation of Pd-P and P-C bonds. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1180-1	16.4	51
37	Gold(I) phosphido complexes: synthesis, structure, and reactivity. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 8891-9011	3.1	43
36	Synthesis and structure of platinum and palladium complexes of dimesitylphosphine. <i>Polyhedron</i> , <b>2002</b> , 21, 2409-2419	2.7	19
35	Palladium(II) Terminal Phosphido Complexes Derived from Cyclometalated Dimesitylphosphine: Synthesis, Structure, and Low-Barrier Phosphorus Inversion. <i>Organometallics</i> , <b>2002</b> , 21, 3208-3214	3.8	33
34	Palladium-catalyzed asymmetric phosphination: enantioselective synthesis of a p-chirogenic phosphine. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 13356-7	16.4	113
33	Hydrophosphination and Related Reactions <b>2001</b> , 143-170		21
32	Photochemical Reactivity of Group 9 Metal Pinacolate Complexes. <i>Organometallics</i> , <b>2001</b> , 20, 2250-2261	3.8	14
31	Cyclometalation of Dimesitylphosphine in Cationic Palladium(II) and Platinum(II) Complexes: P vs C Activation. <i>Organometallics</i> , <b>2000</b> , 19, 2882-2890	3.8	17
30	Synthesis and Structure of Dinuclear Palladium(II) Complexes with Bridging Hydrido and Phosphido Ligands. <i>Organometallics</i> , <b>2000</b> , 19, 3447-3454	3.8	22
29	Pt(Me-Duphos)-Catalyzed Asymmetric Hydrophosphination of Activated Olefins: Enantioselective Synthesis of Chiral Phosphines. <i>Organometallics</i> , <b>2000</b> , 19, 950-953	3.8	145
28	Terminal Platinum(II) Perfluoroacyl Phosphido Complexes: Synthesis and Dynamic Processes. <i>Organometallics</i> , <b>1999</b> , 18, 5130-5140	3.8	17
27	Chiral Terminal Platinum(II) Phosphido Complexes: Synthesis, Phosphorus Inversion, and Acrylonitrile Insertion. <i>Organometallics</i> , <b>1999</b> , 18, 5141-5151	3.8	35
26	Synthesis and Structure of Dinuclear Diphosphine-Bridged Palladium(II) Complexes. <i>Organometallics</i> , <b>1999</b> , 18, 4673-4676	3.8	11

25	Platinum-Catalyzed Acrylonitrile Hydrophosphination. P=C Bond Formation via Olefin Insertion into a Pt=C Bond. <i>Organometallics</i> , <b>1999</b> , 18, 5381-5394	3.8	86
24	Terminal Platinum(II) Phosphido Complexes: Synthesis, Structure, and Thermochemistry. <i>Organometallics</i> , <b>1998</b> , 17, 652-660	3.8	38
23	Synthesis and Structure of a Cationic Diplatinum $\eta$ -Alkylidene $\eta$ -Hydride Complex. <i>Organometallics</i> , <b>1998</b> , 17, 574-578	3.8	19
22	Oxidative Addition of Dimesitylphosphine to Platinum(0): P=C vs P=C Activation. <i>Organometallics</i> , <b>1998</b> , 17, 125-127	3.8	23
21	Platinum(0) Complexes of Chiral Diphosphines: Enantioface-Selective Binding of trans-Stilbene. <i>Organometallics</i> , <b>1998</b> , 17, 1412-1419	3.8	29
20	Phosphaazaallene Dimerization and Phosphaallene Isomerization: Catalysis by Zerovalent Palladium and Platinum Complexes. <i>Organometallics</i> , <b>1997</b> , 16, 378-383	3.8	18
19	Palladium-Catalyzed Phosphaketene Decarbonylation: Diphosphaureylene Intermediates in Diphosphene Formation. <i>Organometallics</i> , <b>1997</b> , 16, 4768-4770	3.8	22
18	Synthesis and Reactivity of a Dimeric Platinum Phosphinidene Complex. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 5160-5164	5.1	34
17	Platinum-Catalyzed Acrylonitrile Hydrophosphination via Olefin Insertion into a Pt=C Bond. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 5039-5040	16.4	108
16	Synthesis and Ligand Substitution Reactions of a Mesitylphosphido-Bridged Platinum(II) Dimer. <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 1478-1485	5.1	32
15	Synthesis, Structure, and Deprotonation of a Mesitylphosphido-Bridged Cyclopentadienylnickel(II) Dimer. <i>Organometallics</i> , <b>1996</b> , 15, 2483-2488	3.8	15
14	Metal Complexes of Mesitylphosphine: Synthesis, Structure, and Spectroscopy. <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 6708-6716	5.1	30
13	Rhodium-Mediated Stoichiometric P:C Bond Cleavage and Catalytic Isomerization in Phosphacumulenes. <i>Organometallics</i> , <b>1995</b> , 14, 17-19	3.8	16
12	Platinum-Mediated P:C Bond Cleavage in a Phosphaketene: Formation and Structure of the First Mononuclear Diphosphaureylene Complex. <i>Organometallics</i> , <b>1995</b> , 14, 4040-4042	3.8	16
11	Synthesis, Structure, and Reactivity of the First Phosphaazaallene-Metal Complex. <i>Organometallics</i> , <b>1995</b> , 14, 3603-3606	3.8	9
10	Synthesis and properties of crown ether-alkali metal cation intercalation compounds of transition metal phosphorus sulfides, MPS <sub>3</sub> (M = manganese, cadmium, zinc). <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 1893-1902	5.1	23
9	Study of metal-ligand multiple bonding in osmium and iridium imido complexes: evidence for the cyclopentadienyl-imido analogy. <i>Organometallics</i> , <b>1992</b> , 11, 4221-4225	3.8	44
8	Iridium alkoxide and amide hydride complexes. Synthesis, reactivity, and the mechanism of oxygen-hydrogen and nitrogen-hydrogen reductive elimination. <i>Organometallics</i> , <b>1991</b> , 10, 1462-1479	3.8	115

7	Monomeric (pentamethylcyclopentadienyl)iridium imido compounds: synthesis, structure, and reactivity. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 2041-2054	16.4	182
6	Mechanism of ligand substitution in an iridium amide complex. <i>Organometallics</i> , <b>1991</b> , 10, 1479-1486	3.8	35
5	Deprotonation of a Cp* methyl group by an iridium anilide: formation, structure, and solution dynamics of an $\eta^4$ -tetramethylfulvene complex. <i>Organometallics</i> , <b>1990</b> , 9, 2862-2863	3.8	39
4	The electrochromic properties of chemically deposited tungsten oxide films. <i>Solar Energy Materials and Solar Cells</i> , <b>1989</b> , 18, 127-141		54
3	Synthesis, structure, and reactivity of a monomeric pentamethylcyclopentadienyliridium(III) imido complex. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 2719-2721	16.4	89
2	A versatile route to diastereomeric tungstenocene complexes containing chiral metal centers. <i>Journal of the American Chemical Society</i> , <b>1988</b> , 110, 4838-4840	16.4	13
1	Asymmetric Synthesis of P-Stereogenic Secondary Phosphine Oxides (SPOs). <i>Synthesis</i> ,	2.9	4