

Julian A Davies

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Question of Artificial Photosynthesis of Ammonia on Heterogeneous Catalysts. <i>Advances in Photochemistry</i> , 2007, , 235-310.	0.4	10
2	Ammonium and Barium Salts of the Tris[1,2-Benzenediolate(2-)-O, O ²⁻]Titanium(IV) Dianion. <i>Inorganic Syntheses</i> , 2007, , 11-14.	0.3	1
3	Synthesis of Two 3,5-Disubstituted Sulfonamide Catechol Ligands and Evaluation of Their Iron(III) Complexes for Use as MRI Contrast Agents. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 7482-7485.	6.4	29
4	Hydroformylation of 1-hexene in supercritical carbon dioxide using a heterogeneous rhodium catalyst. 1. Effect of process parameters. <i>Journal of Supercritical Fluids</i> , 2003, 25, 183-196.	3.2	24
5	Hydroformylation of 1-Hexene in Supercritical Carbon Dioxide: Characterization, Activity, and Regioselectivity Studies. <i>Environmental Science & Technology</i> , 2003, 37, 5424-5431.	10.0	15
6	Supported platinum/tin complexes as catalysts for hydroformylation of 1-hexene in supercritical carbon dioxide. <i>Catalysis Communications</i> , 2003, 4, 309-314.	3.3	25
7	GREENCHEMISTRY AND ENGINEERING: Drivers, Metrics, and Reduction to Practice. <i>Annual Review of Environment and Resources</i> , 2003, 28, 401-428.	13.4	42
8	Hydroformylation of 1-Hexene in Supercritical Carbon Dioxide Using a Heterogeneous Rhodium Catalyst. 2. Evaluation of Reaction Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 4514-4522.	3.7	21
9	Hydroformylation of 1-hexene in supercritical carbon dioxide using a heterogeneous rhodium catalyst. 3. Evaluation of solvent effects. <i>Green Chemistry</i> , 2002, 4, 507-512.	9.0	56
10	Non-Gadolinium-Based MRI Contrast Agents. <i>Topics in Current Chemistry</i> , 2002, , 165-199.	4.0	37
11	Electrochemical synthesis and spectroscopic characterization of a mercury-platinum-hydride complex. <i>Inorganica Chimica Acta</i> , 2000, 300-302, 645-652.	2.4	1
12	Iron(III)-based contrast agents for magnetic resonance imaging. <i>Polyhedron</i> , 1999, 18, 2457-2482.	2.2	39
13	Synthesis and Characterization of Intermolecular Hydrogen Bond Stabilized Acyl(hydroxycarbene)platinum(II) Complexes. <i>Inorganic Chemistry</i> , 1999, 38, 680-683.	4.0	17
14	Synthesis and Characterization of the First Acyl(hydrido)platinum(IV) Complexes. <i>Organometallics</i> , 1998, 17, 3101-3104.	2.3	30
15	Iron-based second-sphere contrast agents for magnetic resonance imaging: Development of a model system and evaluation of iron (III) tris (tironate) complex in rats. <i>Academic Radiology</i> , 1996, 3, 936-945.	2.5	21
16	The reactions of [Pd ₂ Cl ₂ (η^4 -PP) ₂] (PP = dppm, dmpm) with Et ₂ NCNEt ₂ in methylene chloride solution: X-ray crystal structures of [Pd ₂ Cl ₂ (η^4 -CH ₂)(η^4 -dppm) ₂] and hexakis(diethylamino)benzene, C ₆ (NEt ₂) ₆ . <i>Canadian Journal of Chemistry</i> , 1996, 74, 2331-2339.	1.1	16
17	A novel Lewis-acid-catalyzed 1,2-OMe shift reaction of an acetylenic ether on a dipalladium framework. X-ray structure of [Pd ₂ Cl ₂ (η^4 -dppm) ₂ (η^4 -C \equiv C(OMe)(Me))]. <i>Journal of Organometallic Chemistry</i> , 1996, 526, 385-387.	6.8	8
18	An investigation of the putative photosynthesis of ammonia on iron-doped titania and other metal oxides. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 88, 53-64.	3.9	40

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19	Lewis acid catalysis of the rearrangement of a dipalladium acetylene adduct to a vinylidene-bridged complex. <i>Organometallics</i> , 1995, 14, 4257-4262.	2.3	21
20	Palladium Carbon σ -Bonded Complexes. , 1995, , 291-390.		22
21	Photooxidation of aqueous ammonia with titania-based heterogeneous catalysts. <i>Solar Energy</i> , 1994, 52, 459-466.	6.1	47
22	Reactions of Dimeric Palladium(I) Complexes with Sulfur-Substituted Acetylenes: 1,2-Heteroatomic Shift Reactions versus Adduct Formation. X-ray Crystal Structures of $[\text{Pd}_2\text{Cl}_2(\mu\text{-dppm})_2(\mu\text{-CH}_3\text{SCCSCCH}_3)] \cdot \text{CH}_2\text{Cl}_2$, $[\text{Pd}_2\text{Cl}_2(\mu\text{-dmpm})_2(\mu\text{-CH}_3\text{SCCSCCH}_3)]$, and $[\text{Pd}_2\text{Cl}_2(\mu\text{-dppm})_2(\mu\text{-}\sigma\text{-C:C(CH}_3\text{)(SCH}_3\text{))}]$. <i>Organometallics</i> , 1994, 13, 3664-3670.	2.3	19
23	Reply: Standards of Demonstration for the Heterogeneous Photoreactions of N_2 with H_2O . <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 552-553.	4.4	15
24	Reply: Standards of Demonstration for the Heterogeneous Photoreactions of N_2 with H_2O . <i>Angewandte Chemie</i> , 1993, 105, 581-582.	2.0	3
25	Studies of <i>cis</i> - $[\text{PtCl}_2(\text{PPh}_2\text{nPr})(\text{BzS}\{\text{O}\}\text{Bz})]$ by solid-state CP/MAS ^{31}P NMR spectroscopy, single-crystal X-ray diffraction and X-ray powder diffraction: Investigation of a question concerning polymorphism versus space group ambiguity. <i>Magnetic Resonance in Chemistry</i> , 1993, 31, 435-438.	1.9	4
26	Investigation of solvation effects on the solid-state ^{31}P NMR spectra of tertiary phosphine derivatives and metal complexes. <i>Magnetic Resonance in Chemistry</i> , 1993, 31, 439-443.	1.9	4
27	An Opinion on the Heterogeneous Photoreactions of N_2 with H_2O . <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 480-482.	4.4	42
28	Heterogene Photoreaktionen von N_2 mit H_2O – ein Kommentar. <i>Angewandte Chemie</i> , 1992, 104, 489-491.	2.0	21
29	Electrochemical reduction of platinum(II) complexes containing bidentate tertiary phosphine ligands: evidence for the generation of non-linear two-coordinate complexes. <i>Polyhedron</i> , 1991, 10, 899-908.	2.2	3
30	$\text{C}\text{-X}$ and $\text{C}\text{-H}$ cleavage by electrochemically generated non-linear $[\text{PtL}_2]$ complexes. <i>Polyhedron</i> , 1991, 10, 909-917.	2.2	16
31	Electroceramics from Source Materials via Molecular Intermediates: BaTiO_3 from TiO_2 via $[\text{Ti}(\text{catecholate})_3]_2$. <i>Journal of the American Ceramic Society</i> , 1990, 73, 1429-1430.	3.8	20
32	Electroceramics from Source Materials via Molecular Intermediates: PbTiO_3 from TiO_2 via $[\text{Ti}(\text{catecholate})_3]_2$. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2570-2572.	3.8	9
33	Electrochemical oxidative cleavage of the platinum-hydrogen bond in <i>trans</i> - $[\text{PtHCl}(\text{PEt}_3)_2]$. <i>Inorganica Chimica Acta</i> , 1990, 175, 41-45.	2.4	7
34	Electrochemical interconversion of Pt(II) and Pt(IV) tertiary phosphine complexes. <i>Inorganica Chimica Acta</i> , 1989, 163, 11-18.	2.4	8
35	Electrochemical generation and reactivity of bis(tertiary phosphine)platinum(0) complexes: a comparison of the reactivity of $[\text{Pt}(\text{PPh}_3)_2]$ and $[\text{Pt}(\text{PEt}_3)_2]$ equivalents. <i>Organometallics</i> , 1989, 8, 1080-1088.	2.3	17
36	Synthesis of $[\text{Pd}_2(\eta\text{-}^5\text{-C}_5\text{Me}_5)_2(\mu\text{-CO})_2]$ and its reaction with acids. Structure of $[\text{Pd}_3(\eta\text{-}^5\text{-C}_5\text{Me}_5)_3(\mu\text{-}^3\text{-CO})_2][\text{CF}_3\text{SO}_3]$. <i>Organometallics</i> , 1988, 7, 791-792.	2.3	18

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37	SYNTHESIS, CHARACTERIZATION, AND COORDINATION CHEMISTRY OF LONG CHAIN α -ALKYLDIPHENYLPHOSPHINE LIGANDS. <i>Journal of Coordination Chemistry</i> , 1988, 17, 25-43.	2.2	12
38	The reaction of di-iodoacetylene with $[\text{Pd}_2\text{Cl}_2(\mu\text{-Ph}_2\text{PCH}_2\text{PPh}_2)_2]$: formation of $[\text{Pd}_2\text{Cl}_2(\mu\text{-f-Cf-CCl}_2)(\mu\text{-Ph}_2\text{PCH}_2\text{PPh}_2)_2]$ and $[\text{PdI}_2(\text{Ph}_2\text{PCH}_2\text{PPh}_2)]$. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, .	2.0	25
39	Catalytic olefin hydrogenation by platinum(II)/tin(II) systems supported on phosphinated polystyrenes: a solid-state phosphorus-31 NMR study. <i>Journal of Organometallic Chemistry</i> , 1987, 322, 393-404.	1.8	9
40	Electrochemical generation and reactivity of bis(triphenylphosphine)platinum(0): an electro-synthesis of platinum-acetylene complexes. <i>Organometallics</i> , 1986, 5, 1264-1266.	2.3	14
41	Electrochemical generation and reactivity of bis(triethylphosphine)platinum(0): formation of a platinum hydride via a Hofmann elimination reaction with the tetra-n-butylammonium cation. <i>Organometallics</i> , 1986, 5, 2149-2151.	2.3	11
42	Modified polystyrenes: Effects of pendant functional groups on thermal stability. <i>Thermochimica Acta</i> , 1985, 87, 211-218.	2.7	8
43	DRIFT study of functional group interconversions on modified silica surfaces. <i>Die Makromolekulare Chemie</i> , 1985, 186, 1631-1642.	1.1	7
44	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1983, 4, 777-782.	1.1	25
45	A $^31\text{P}\{^1\text{H}\}$ NMR study of the reactions of $[\text{PtCl}_2\text{L}_2]$ (L = RCN; L2 = 1,5-cyclooctadiene) complexes with bidentate ligands. The effects of solubility on product distribution. <i>Inorganica Chimica Acta</i> , 1983, 76, L251-L252.	2.4	41
46	Role of the trichlorostannyl ligand in homogeneous catalysis. 2. Spectroscopic studies of the reaction of cis- $[\text{PtCl}_2(\text{CO})(\text{PR}_3)]$ with tin dichloride dihydrate ($\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$): ligand rearrangement reactions in the formation of an olefin hydroformylation catalyst precursor. <i>Inorganic Chemistry</i> , 1983, 22, 427-433.	4.0	39
47	Role of the trichlorostannyl ligand in homogeneous catalysis. 4. Correlations of solution structure with catalytic activity in cis- $[\text{PtCl}_2(\text{L})(\text{PR}_3)]$ / tin chloride dihydrate (SnCl_2O) and $[\text{Pt}_2(\mu\text{-Cl})_2\text{Cl}_2(\text{PR}_3)_2]$ / tin dichloride dihydrate ($\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$) (L = PR3, CO, thioether, amine; R = aryl,) Tj ETQq1 1 0.7843 14 rgBT / Dv	4.0	48
48	Role of trichlorostannyl ligand in homogeneous catalysis. 3. Solvent effects on the reactions of cis- $[\text{PtCl}_2(\text{L})(\text{PR}_3)]$ and $[\text{Pt}_2(\mu\text{-Cl})_2\text{Cl}_2(\text{PR}_3)_2]$ (L = CO, SMe2; R = Ph, Et) with tin dichloride dihydrate ($\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$). <i>Inorganic Chemistry</i> , 1983, 22, 434-438.	4.0	43
49	Chemistry of metal hydrides. 25. Reactions of trans- $[\text{PtH}_2(\text{PCy}_3)_2]$ with carbon monoxide and other π -acids. <i>Organometallics</i> , 1982, 1, 550-553.	2.3	15
50	The hydroformylation reaction: catalysis by platinum(II)-tin(II) systems. <i>Journal of Organometallic Chemistry</i> , 1981, 213, 503-512.	1.8	49
51	Transition metal carbonyls in organic synthesis. , 0, , 295-333.		0
52	Multinuclear magnetic resonance methods in the study of organometallic compounds. , 0, , 813-918.		1
53	Olefin and alcohol carbonylation. , 0, , 335-359.		0
54	Olefin hydroformylation. , 0, , 361-389.		0