

Julian A Davies

List of Publications by Year in descending order

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361413

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all docs

54
docs citations

54
times ranked

950
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	The hydroformylation reaction: catalysis by platinum(II)-tin(II) systems. <i>Journal of Organometallic Chemistry</i> , 1981, 213, 503-512.	1.8	49
3	Role of the trichlorostannyl ligand in homogeneous catalysis. 4. Correlations of solution structure with catalytic activity in <i>cis</i> -[PtCl ₂ (L)(PR ₃) ₂]/ tin chloride dihydrate (SnCl ₂ O) and [Pt ₂ (μ-Cl) ₂ Cl ₂ (PR ₃) ₂]/ tin dichloride dihydrate (SnCl ₂ ·2H ₂ O) (L = PR ₃ , CO, thioether, amine; R = aryl), <i>Tj ETQq1 10.784314 rgBT /</i>	4.0	48
4	Photooxidation of aqueous ammonia with titania-based heterogeneous catalysts. <i>Solar Energy</i> , 1994, 52, 459-466.	6.1	47
5	Role of trichlorostannyl ligand in homogeneous catalysis. 3. Solvent effects on the reactions of <i>cis</i> -[PtCl ₂ (L)(PR ₃) ₂] and [Pt ₂ (μ-Cl) ₂ Cl ₂ (PR ₃) ₂] (L = CO, SMe ₂ ; R = Ph, Et) with tin dichloride dihydrate (SnCl ₂ ·2H ₂ O). <i>Inorganic Chemistry</i> , 1983, 22, 434-438.	4.0	43
6	An Opinion on the Heterogeneous Photoreactions of N ₂ with H ₂ O. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 480-482.	4.4	42
7	GREENCHEMISTRY ANDENGINEERING: Drivers, Metrics, and Reduction to Practice. <i>Annual Review of Environment and Resources</i> , 2003, 28, 401-428.	13.4	42
8	A ³¹ P{ ¹ H} NMR study of the reactions of [PtCl ₂ L ₂] (L = RCN; L ₂ = 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
9	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
10	Role of the trichlorostannyl ligand in homogeneous catalysis. 2. Spectroscopic studies of the reaction of <i>cis</i> -[PtCl ₂ (CO)(PR ₃) ₂] with tin dichloride dihydrate (SnCl ₂ ·2H ₂ O): ligand rearrangement reactions in the formation of an olefin hydroformylation catalyst precursor. <i>Inorganic Chemistry</i> , 1983, 22, 427-433.	4.0	39
11	Iron(III)-based contrast agents for magnetic resonance imaging. <i>Polyhedron</i> , 1999, 18, 2457-2482.	2.2	39
12	Non-Gadolinium-Based MRI Contrast Agents. <i>Topics in Current Chemistry</i> , 2002, , 165-199.	4.0	37
13	Synthesis and Characterization of the First Acyl(hydrido)platinum(IV) Complexes. <i>Organometallics</i> , 1998, 17, 3101-3104.	2.3	30
14	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
15	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1983, 4, 777-782.	1.1	25
16	The reaction of di-iodoacetylene with [Pd ₂ Cl ₂ (μ-Ph ₂ PCH ₂ PPh ₂) ₂]: formation of [Pd ₂ Cl ₂ (μ-If-Ci†CCL ₂)(μ-Ph ₂ PCH ₂ PPh ₂) ₂] and [PdI ₂ (Ph ₂ PCH ₂ PPh ₂)]. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, .	2.0	25
17	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
18	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

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19	Palladium Carbon σ -Bonded Complexes. , 1995, , 291-390.		22
20	Heterogene Photoreaktionen von N_2 mit H_2O – ein Kommentar. Angewandte Chemie, 1992, 104, 489-491.	2.0	21
21	Lewis acid catalysis of the rearrangement of a dipalladium acetylene adduct to a vinylidene-bridged complex. Organometallics, 1995, 14, 4257-4262.	2.3	21
22	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. Academic Radiology, 1996, 3, 936-945.	2.5	21
23	Hydroformylation of 1-Hexene in Supercritical Carbon Dioxide Using a Heterogeneous Rhodium Catalyst. 2. Evaluation of Reaction Kinetics. Industrial & Engineering Chemistry Research, 2002, 41, 4514-4522.	3.7	21
24	Electroceramics from Source Materials via Molecular Intermediates: $BaTiO_3$ from TiO_2 via $(Ti(\text{catecholate})_3)_2$. Journal of the American Ceramic Society, 1990, 73, 1429-1430.	3.8	20
25	Reactions of Dimeric Palladium(I) Complexes with Sulfur-Substituted Acetylenes: 1,2-Heteroatomic Shift Reactions versus Adduct Formation. X-ray Crystal Structures of $[Pd_2Cl_2(\mu\text{-dppm})_2(\mu\text{-CH}_3\text{SCCSCCH}_3)] \cdot CH_2Cl_2$, $[Pd_2Cl_2(\mu\text{-dmpm})_2(\mu\text{-CH}_3\text{SCCSCCH}_3)]$, and $[Pd_2Cl_2(\mu\text{-dppm})_2(\mu\text{-}\sigma\text{-C}(\text{CH}_3)(\text{SCH}_3))]$. Organometallics, 1994, 13, 3664-3670.	2.3	19
26	Synthesis of $[Pd_2(\eta\text{-}^5\text{-C}_5\text{Me}_5)_2(\mu\text{-CO})_2]$ and its reaction with acids. Structure of $[Pd_3(\eta\text{-}^5\text{-C}_5\text{Me}_5)_3(\mu\text{-}^3\text{-CO})_2]^+ [CF_3SO_3]^-$. Organometallics, 1988, 7, 791-792.	2.3	18
27	Electrochemical generation and reactivity of bis(tertiary phosphine)platinum(0) complexes: a comparison of the reactivity of $[Pt(PPh_3)_2]$ and $[Pt(PEt_3)_2]$ equivalents. Organometallics, 1989, 8, 1080-1088.	2.3	17
28	Synthesis and Characterization of Intermolecular Hydrogen Bond Stabilized Acyl(hydroxycarbene)platinum(II) Complexes. Inorganic Chemistry, 1999, 38, 680-683.	4.0	17
29	$Ci-X$ and $Ci-H$ cleavage by electrochemically generated non-linear $[PtL_2]$ complexes. Polyhedron, 1991, 10, 909-917.	2.2	16
30	The reactions of $[Pd_2Cl_2(\eta\text{-}^4\text{-PP})_2]$ ($PP = \mu\text{-dppm}, \mu\text{-dmpm}$) with Et_2NCNEt_2 in methylene chloride solution: X-ray crystal structures of $[Pd_2Cl_2(\eta\text{-}^4\text{-CH}_2)(\eta\text{-}^4\text{-dppm})_2]$ and hexakis(diethylamino)benzene, $C_6(\text{NEt}_2)_6$. Canadian Journal of Chemistry, 1996, 74, 2331-2339.	1.1	16
31	Chemistry of metal hydrides. 25. Reactions of $trans\text{-}[PtH_2(PCy_3)_2]$ with carbon monoxide and other π -acids. Organometallics, 1982, 1, 550-553.	2.3	15
32	Reply: Standards of Demonstration for the Heterogeneous Photoreactions of N_2 with H_2O . Angewandte Chemie International Edition in English, 1993, 32, 552-553.	4.4	15
33	Hydroformylation of 1-Hexene in Supercritical Carbon Dioxide: \hat{A} Characterization, Activity, and Regioselectivity Studies. Environmental Science & Technology, 2003, 37, 5424-5431.	10.0	15
34	Electrochemical generation and reactivity of bis(triphenylphosphine)platinum(0): an electrosynthesis of platinum-acetylene complexes. Organometallics, 1986, 5, 1264-1266.	2.3	14
35	SYNTHESIS, CHARACTERIZATION, AND COORDINATION CHEMISTRY OF LONG CHAIN n -ALKYLDIPHENYLPHOSPHINE LIGANDS. Journal of Coordination Chemistry, 1988, 17, 25-43.	2.2	12
36	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. Organometallics, 1986, 5, 2149-2151.	2.3	11

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37	The Question of Artificial Photosynthesis of Ammonia on Heterogeneous Catalysts. <i>Advances in Photochemistry</i> , 2007, , 235-310.	0.4	10
38	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
39	Electroceramics from Source Materials via Molecular Intermediates: PbTiO ₃ from TiO ₂ via [Ti(catecholate) ₃] ²⁻ . <i>Journal of the American Ceramic Society</i> , 1990, 73, 2570-2572.	3.8	9
40	Modified polystyrenes: Effects of pendant functional groups on thermal stability. <i>Thermochimica Acta</i> , 1985, 87, 211-218.	2.7	8
41	Electrochemical interconversion of Pt(II) and Pt(IV) tertiary phosphine complexes. <i>Inorganica Chimica Acta</i> , 1989, 163, 11-18.	2.4	8
42	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 (¹ / ₄ ~dppm) ₂ (¹ / ₄ ~Cl ⁻ →C(OMe)(Me))]. <i>Journal of Organometallic Chemistry</i> , 1996, 526, 8385-387.	6.8	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	Electrochemical oxidative cleavage of the platinum-hydrogen bond in trans-[PtHCl(PEt ₃) ₂]. <i>Inorganica Chimica Acta</i> , 1990, 175, 41-45.	2.4	7
45	Studies of cis-[PtCl ₂ (PPh ₂ nPr) (BzS{O}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
46	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
47	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
48	Reply: Standards of Demonstration for the Heterogeneous Photoreactions of N ₂ with H ₂ O. <i>Angewandte Chemie</i> , 1993, 105, 581-582.	2.0	3
49	Electrochemical synthesis and spectroscopic characterization of a mercury-platinum-hydride complex. <i>Inorganica Chimica Acta</i> , 2000, 300-302, 645-652.	2.4	1
50	Ammonium and Barium Salts of the Tris[1,2-Benzenediolate(2-)-O, ²⁻]Titanium(IV) Dianion. <i>Inorganic Syntheses</i> , 2007, , 11-14.	0.3	1
51	Multinuclear magnetic resonance methods in the study of organometallic compounds. , 0, , 813-918.		1
52	Transition metal carbonyls in organic synthesis. , 0, , 295-333.		0
53	Olefin and alcohol carbonylation. , 0, , 335-359.		0
54	Olefin hydroformylation. , 0, , 361-389.		0