

James D E T Wilton-Ely

List of Publications by Year in descending order

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100
papers

3,483
citations

116194

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h-index

190340

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105
docs citations

105
times ranked

3396
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordinatively unsaturated ruthenium allenylidene complexes: highly effective, well defined catalysts for the ring-closure metathesis of 1,3-dienes and dienyne. <i>Chemical Communications</i> , 1999, , 601-602.	2.2	125
2	The first co-ordinatively unsaturated Group 8 allenylidene complexes: insights into Grubbs's vs. Dixneuf's first olefin metathesis catalysts. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 285-292.	1.1	122
3	Multimetallic Assemblies Using Piperazine-Based Dithiocarbamate Building Blocks. <i>Inorganic Chemistry</i> , 2008, 47, 9642-9653.	1.9	101
4	Competition as a Design Concept: Polymorphism in Self-Assembled Monolayers of Biphenyl-Based Thiols. <i>Journal of the American Chemical Society</i> , 2006, 128, 13868-13878.	6.6	91
5	Polyazolyl Chelate Chemistry. 7.1 Reactivity of the Complexes $[MCl(PPh_3)_2\{HB(pz)_3\}]$ ($M = Ru, Os$; $pz =$)	1.1	79
6	Reusable and highly active supported copper(I)-NHC catalysts for Click chemistry. <i>Chemical Communications</i> , 2013, 49, 11358.	2.2	79
7	Stress in Self-Assembled Monolayers: Biphenyl Alkane Thiols on Au(111). <i>Journal of Physical Chemistry B</i> , 2005, 109, 10902-10908.	1.2	77
8	A Chromo-Fluorogenic Synthetic "Canary" for CO Detection Based on a Pyrenylvinyl Ruthenium(II) Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 11930-11933.	6.6	77
9	Ex Vivo Tracking of Endogenous CO with a Ruthenium(II) Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 18484-18487.	6.6	74
10	Chromo-fluorogenic probes for carbon monoxide detection. <i>Chemical Communications</i> , 2016, 52, 5902-5911.	2.2	73
11	Simultaneous Detection of Carbon Monoxide and Viscosity Changes in Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21431-21435.	7.2	70
12	The surface functionalisation of gold nanoparticles with metal complexes. <i>Dalton Transactions</i> , 2008, , 25-29.	1.6	67
13	Highly Selective and Near-Quantitative Conversion of Fructose to 5-Hydroxymethylfurfural Using Mildly Acidic Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 978-981.	3.2	67
14	Functionalised dithiocarbamate complexes: Synthesis and molecular structures of 2-diethylaminoethyl and 3-dimethylaminopropyl dithiocarbamate complexes $[M\{S_2CN(CH_2CH_2NEt_2)_2\}_n]$ and $[M\{S_2CN(CH_2CH_2CH_2NMe_2)_2\}_n]$ ($n=2, M=Ni, Cu, Zn, Pd$; $n=3, M=Co$). <i>Inorganica Chimica Acta</i> , 2009, 362, 2020-2026.	1.2	65
15	The Use of Imidazolium-2-dithiocarboxylates in the Formation of Gold(I) Complexes and Gold Nanoparticles. Dedicated to Prof. Dr. Hubert Schmidbaur on the occasion of his 75th birthday. <i>Inorganic Chemistry</i> , 2010, 49, 1784-1793.	1.9	63
16	Multifunctional Dithiocarbamates as Ligands Towards the Rational Synthesis of Polymetallic Arrays: An Example Based on a Piperazine-Derived Dithiocarbamate Ligand. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4027-4030.	1.0	61
17	The coupling of methylene and vinyl ligands at a ruthenium(II) centre. <i>Chemical Communications</i> , 1997, , 2207-2208.	2.2	59
18	Structural diversity in gold(I) complexes of 4-sulfanylbenzoic acid. <i>Dalton Transactions RSC</i> , 2001, , 1058-1062.	2.3	57

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19	Facile Preparation of Drug-Loaded Tristearin Encapsulated Superparamagnetic Iron Oxide Nanoparticles Using Coaxial Electrospray Processing. <i>Molecular Pharmaceutics</i> , 2017, 14, 2010-2023.	2.3	55
20	Bifunctional dithiocarbamates: a bridge between coordination chemistry and nanoscale materials. <i>Dalton Transactions</i> , 2009, , 607-609.	1.6	52
21	Multifunctional Dithiocarbamates: Synthesis and Ring-Closing Metathesis of Diallyldithiocarbamate Complexes. <i>Organometallics</i> , 2010, 29, 2547-2556.	1.1	51
22	Strategies for the Separation of the Furanic Compounds HMF, DFF, FFCA, and FDCA from Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16483-16492.	3.2	50
23	Multimetallic complexes of group 10 and 11 metals based on polydentate dithiocarbamate ligands. <i>Dalton Transactions</i> , 2011, 40, 5852.	1.6	49
24	Multimetallic Arrays: Bi-, Tri-, Tetra-, and Hexametallic Complexes Based on Gold(I) and Gold(III) and the Surface Functionalization of Gold Nanoparticles with Transition Metals. <i>Inorganic Chemistry</i> , 2009, 48, 3866-3874.	1.9	47
25	Multimetallic arrays: Symmetrical bi-, tri- and tetrametallic complexes based on the group 10 metals and the functionalisation of gold nanoparticles with nickel-phosphine surface units. <i>Dalton Transactions</i> , 2009, , 3688.	1.6	47
26	Heavy Metal Sensing Using Self-Assembled Nanoparticles at a Liquid-Liquid Interface. <i>Advanced Optical Materials</i> , 2014, 2, 966-977.	3.6	47
27	From sugars to FDCA: a techno-economic assessment using a design concept based on solvent selection and carbon dioxide emissions. <i>Green Chemistry</i> , 2021, 23, 1716-1733.	4.6	47
28	Polyazolyl Chelate Chemistry. 8.1 Organometallic Dihydrido-bis(pyrazol-1-yl)borato Complexes of Ruthenium(II). <i>Organometallics</i> , 1998, 17, 4249-4258.	1.1	46
29	Multimetallic Arrays: Symmetrical and Unsymmetrical Bi-, Tri-, and Tetrametallic Organometallic Complexes of Ruthenium(II) and Osmium(II). <i>Organometallics</i> , 2009, 28, 197-208.	1.1	45
30	Phosphaalkyne Hydrometalation: Synthesis and Reactivity of the Complexes [Ru(PCHCMe ₃)Cl(CA)(PPh ₃) ₂] (A = O, S). <i>Organometallics</i> , 1998, 17, 4744-4753.	1.1	43
31	Ruthenium(II) and Osmium(II) Vinyl Complexes as Highly Sensitive and Selective Chromogenic and Fluorogenic Probes for the Sensing of Carbon Monoxide in Air. <i>Chemistry - A European Journal</i> , 2015, 21, 14529-14538.	1.7	41
32	Organometallic Macrocyclic Chemistry. 5.1 η^5 -Vinyl and η^5 -Aryl Complexes of Ruthenium(II) Ligated by 1,4,7-Trithiacyclononane: X-ray Crystal Structure of [Ru(CHCH ₂)(CO)(PPh ₃)([9]aneS ₃)]PF ₆ ·2CH ₂ Cl ₂ . <i>Organometallics</i> , 1996, 15, 5409-5415.	1.1	40
33	Unprecedented coupling of vinylidene and allenylidene ligands with dithiocarbamates: X-ray structure of [Ru{C(=C)C(=C)CPh ₂ }SC(NMe ₂)S}(S ₂ CNMe ₂)(CO)(PPh ₃)]. <i>Journal of Organometallic Chemistry</i> , 1999, 578, 264-267.	0.8	39
34	Dithiocarboxylate complexes of ruthenium(ii) and osmium(ii). <i>Dalton Transactions</i> , 2011, 40, 3737.	1.6	38
35	Highly Sensitive and Selective Molecular Probes for Chromo-Fluorogenic Sensing of Carbon Monoxide in Air, Aqueous Solution and Cells. <i>Chemistry - A European Journal</i> , 2019, 25, 2069-2081.	1.7	38
36	Diversity in the Structural Chemistry of (Phosphine)gold(I) 1,3,4-Thiadiazole-2,5-dithiolates (Bismuthiolates I). <i>Inorganic Chemistry</i> , 2001, 40, 6266-6271.	1.9	37

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37	The Close-Knit Supramolecular Network of Bis[(tert-butyl isocyanide)gold(I)] 1,3,4-Thiadiazole-2,5-disulfide. <i>Organometallics</i> , 2001, 20, 1895-1897.	1.1	36
38	Polyazolyl Chelate Chemistry. 6.1 Bidentate Coordination of HB(pz) ₃ (pz = Pyrazol-1-yl) to Ruthenium and Osmium: Crystal Structure of [RuH(CO)(PPh ₃) ₂ { η^2 -HB(pz) ₃ }. <i>Organometallics</i> , 1998, 17, 1552-1557.	1.1	35
39	Noninnocent Behaviour of Dithiocarboxylate Ligands Based on N-Heterocyclic Carbenes. <i>Chemistry - A European Journal</i> , 2010, 16, 10971-10974.	1.7	35
40	Ring-Closing Metathesis and Nanoparticle Formation Based on Diallyldithiocarbamate Complexes of Gold(I): Synthetic, Structural, and Computational Studies. <i>Inorganic Chemistry</i> , 2014, 53, 2404-2416.	1.9	35
41	Synthesis and Reactivity of [TpRh(PPh ₃) ₂] (Tp = Hydridotris(pyrazol-1-yl)borate). <i>Organometallics</i> , 1998, 17, 3152-3154.	1.1	34
42	The Highly Selective and Near-Quantitative Conversion of Glucose to 5-Hydroxymethylfurfural Using Ionic Liquids. <i>PLoS ONE</i> , 2016, 11, e0163835.	1.1	34
43	Synthesis and Catalytic Application of [Rh(PPh ₃) ₂ ([9]aneS ₃)]PF ₆ . <i>Organometallics</i> , 1997, 16, 4517-4518.	1.1	32
44	On the Importance of Purity for the Formation of Self-Assembled Monolayers from Thiocyanates. <i>Langmuir</i> , 2008, 24, 6609-6615.	1.6	32
45	Multimetallic Complexes and Functionalized Gold Nanoparticles Based on a Combination of d- and f-Elements. <i>Inorganic Chemistry</i> , 2014, 53, 1989-2005.	1.9	32
46	Alkenyl and alkynyl complexes of osmium(II) derived from [OsH(Cl)(CO)(BTD)(PPh ₃) ₂] (BTD = 2,1,3-benzothiadiazole). <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 3501-3510.	1.1	31
47	Mixed-Donor Ligands: Pyrrolicarbaldehyde and Pyrrolicarbothioaldehyde η^5 -Organyl Complexes of Ruthenium(II) and Osmium(II). <i>Organometallics</i> , 2005, 24, 2862-2874.	1.1	31
48	Spectroscopic, Structural and Theoretical Investigation of Alkenyl Ruthenium Complexes Supported by Sulfur-Nitrogen Mixed-Donor Ligands. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3068-3078.	1.0	31
49	Rapid, High-Yield Fructose Dehydration to 5-Hydroxymethylfurfural in Mixtures of Water and the Noncoordinating Ionic Liquid [bmim][OTf]. <i>ChemSusChem</i> , 2019, 12, 4452-4460.	3.6	31
50	Limonene-derived phosphines in the cobalt-catalysed hydroformylation of alkenes. <i>Dalton Transactions</i> , 2003, , 4669.	1.6	30
51	η^5 -Organyl complexes of ruthenium and osmium supported by a mixed-donor ligand. <i>Dalton Transactions</i> , 2005, , 1930.	1.6	30
52	Efficient Formation of 2,5-Diformylfuran in Ionic Liquids at High Substrate Loadings and Low Oxygen Pressure with Separation through Sublimation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2462-2471.	3.2	30
53	Characterization and Valorization of Humins Produced by HMF Degradation in Ionic Liquids: A Valuable Carbonaceous Material for Antimony Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2212-2223.	3.2	30
54	Functionalised dithiocarbamate complexes: Complexes based on indoline, indole and substituted piperazine backbones – X-ray crystal structure of [Ni(S ₂ CNC ₃ H ₆ C ₆ H ₄) ₂]. <i>Inorganica Chimica Acta</i> , 2010, 363, 3222-3228.	1.2	29

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55	The functionalisation of ruthenium(ii) and osmium(ii) alkenyl complexes with amine- and alkoxy-terminated dithiocarbamates. <i>Dalton Transactions</i> , 2010, 39, 4080.	1.6	29
56	Synthesis and catalytic application of palladium imidazol(in)ium-2-dithiocarboxylate complexes. <i>Dalton Transactions</i> , 2012, 41, 12386.	1.6	28
57	Synthesis and Reactions of Five-Coordinate Mono- and Binuclear Thiocarbonyl ^π -Alkenyl and Thioacyl Complexes of Ruthenium(II). <i>Organometallics</i> , 2007, 26, 6114-6125.	1.1	27
58	Ruthenium hydride and vinyl complexes supported by nitrogen ^π -oxygen mixed-donor ligands. <i>Inorganica Chimica Acta</i> , 2005, 358, 3218-3226.	1.2	26
59	Direct Catalytic Conversion of Cellulose to 5-Hydroxymethylfurfural Using Ionic Liquids. <i>Inorganics</i> , 2016, 4, 32.	1.2	26
60	Co-ordinative activation of phosphalkynes: methyl neopentylidene phosphorane complexes of ruthenium(II); crystal structure of [Ru(MeP ^π CHBut ^π S)Cl(I)(CO)(PPh ₃) ₂]. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 139-140.	1.1	25
61	Bimetallic complexes based on carboxylate and xanthate ligands: Synthesis and electrochemical investigations. <i>Dalton Transactions</i> , 2009, , 7891.	1.6	24
62	Synthetic and Computational Studies of Thiocarbonyl/σ-Organyl Coupling Reactions. <i>Organometallics</i> , 2008, 27, 5548-5558.	1.1	23
63	Effect of peptide orientation on electron transfer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9996.	1.3	22
64	Two-, Three-, and Four-Coordination at Gold(I) Supported by the Bidentate Selenium Ligand [Ph ₂ P(Se)NP(Se)Ph ₂]-. <i>Inorganic Chemistry</i> , 2001, 40, 4656-4661.	1.9	21
65	Silver(i) coordination by variants of the bis(diphenylphosphino)amine chalcogenide ligand Electronic supplementary information (ESI) available: tables of crystal data. See http://www.rsc.org/suppdata/dt/b1/b105154g/ . <i>Dalton Transactions RSC</i> , 2001, , 3647-3651.	2.3	20
66	Thiocarbamoyl Complexes of Ruthenium(II), Rhodium(III), and Iridium(III). <i>Organometallics</i> , 2005, 24, 5342-5355.	1.1	20
67	Multimetallic Complexes and Functionalized Nanoparticles Based on Unsymmetrical Dithiocarbamate Ligands with Allyl and Propargyl Functionality. <i>Inorganic Chemistry</i> , 2014, 53, 11740-11748.	1.9	20
68	Functionalised [(NHC)Pd(allyl)Cl] complexes: Synthesis, immobilisation and application in cross-coupling and dehalogenation reactions. <i>Catalysis Communications</i> , 2016, 87, 78-81.	1.6	20
69	Strategies for the functionalisation of gold nanorods to reduce toxicity and aid clinical translation. <i>Nanotheranostics</i> , 2021, 5, 155-165.	2.7	20
70	Gold nanomaterials functionalised with gadolinium chelates and their application in multimodal imaging and therapy. <i>Chemical Communications</i> , 2020, 56, 4037-4046.	2.2	19
71	Multimetallic Complexes and Functionalized Nanoparticles Based on Oxygen- and Nitrogen-Donor Combinations. <i>Inorganic Chemistry</i> , 2013, 52, 4700-4713.	1.9	18
72	Multimetallic Alkenyl Complexes Bearing Macrocyclic Dithiocarbamate Ligands. <i>Organometallics</i> , 2015, 34, 494-505.	1.1	18

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73	From recovered metal waste to high-performance palladium catalysts. <i>Green Chemistry</i> , 2017, 19, 5846-5853.	4.6	18
74	Gold(i) complexes bearing mixed-donor ligands derived from N-heterocyclic carbenes. <i>Dalton Transactions</i> , 2011, 40, 6645.	1.6	17
75	Multimetallic Complexes Based on a Diphosphine-Dithiocarbamate "Janus" Ligand. <i>Inorganic Chemistry</i> , 2015, 54, 4222-4230.	1.9	16
76	Bifunctional Chalcogen Linkers for the Stepwise Generation of Multimetallic Assemblies and Functionalized Nanoparticles. <i>Inorganic Chemistry</i> , 2016, 55, 12982-12996.	1.9	16
77	Convenient Syntheses of $[\text{IrCl}(\text{CS})(\text{PPh}_3)_2]$ and a Bis(thiocarbonyl) Complex of Iridium. <i>Organometallics</i> , 1996, 15, 3791-3797.	1.1	15
78	A η^5 -Phosphaalkyne Complex of Ruthenium(0). <i>Inorganic Chemistry</i> , 1997, 36, 5142-5144.	1.9	15
79	Novel syntheses of heterodinuclear phosphaalkenyl complexes: X-ray structure of $[\text{Ru}\{\text{P}(\text{AuPPh}_3)\eta^5\text{CHBut}\}\text{Cl}_2(\text{CO})(\text{PPh}_3)_2]$. <i>Chemical Communications</i> , 1997, , 179-180.	2.2	14
80	Polyfunctionalised Nanoparticles Bearing Robust Gadolinium Surface Units for High Relaxivity Performance in MRI. <i>Chemistry - A European Journal</i> , 2019, 25, 10895-10906.	1.7	13
81	Simultaneous Detection of Carbon Monoxide and Viscosity Changes in Cells. <i>Angewandte Chemie</i> , 2020, 132, 21615-21619.	1.6	13
82	The Pentynoate Ligand as a Building Block for Multimetallic Systems. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2065-2072.	1.0	12
83	A metallacyclic η^5 -phosphaalkenyl complex of ruthenium(II): X-ray structure of $[\text{Ru}\{\eta^2\text{-P}(\eta^5\text{O})\text{CButC}(\eta^5\text{O})\}\{\text{CNBut}\}_2(\text{PPh}_3)_2]$. <i>Chemical Communications</i> , 1998, , 367-368.	2.2	11
84	Synthesis and reactivity of dialkyldithiophosphate complexes of ruthenium. <i>RSC Advances</i> , 2012, 2, 999-1008.	1.7	11
85	Mercuriophosphaalkene-P complexes: crystal structure of $[\text{Ru}\{\text{P}(\eta^5\text{CHBut})\text{HgC}_5\text{H}_4\text{Fe}(\eta^5\text{-C}_5\text{H}_5)\}\text{Cl}_2(\text{CO})(\text{PPh}_3)_2]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 1419-1420.	1.1	10
86	Synthesis and Reactivity of the Ruthenium(II) Dithiocarbonate Complex $[\text{Ru}(\eta^2\text{-S}_2\text{CO})(\text{dppm})_2]$ (dppm = $\text{Tj ETQqQ}_0_0_0 \text{rgBT}$). <i>Overlock</i> 1	1.9	10
87	Gold nanomaterials in the management of lung cancer. <i>Emerging Topics in Life Sciences</i> , 2020, 4, 627-643.	1.1	10
88	Phospha-alkyne hydro-osmiation: synthesis of $[\text{Os}\{\eta^1\text{P}, \eta^1\text{Pa}(\eta^2\text{-P}(\eta^5\text{CHR}))\}\text{Cl}(\text{CO})(\text{PPh}_3)_2]$ (R = CMe ₃). <i>Chemical Communications</i> , 1999, , 451-452.	2.2	9
89	Auration, Argentation, and Mercuration Reactions of an Iridaphosphirene. <i>Inorganic Chemistry</i> , 2005, 44, 3275-3282.	1.9	9
90	Combined Magnetic Resonance Imaging and Photodynamic Therapy Using Polyfunctionalised Nanoparticles Bearing Robust Gadolinium Surface Units. <i>Chemistry - A European Journal</i> , 2020, 26, 4552-4566.	1.7	9

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91	Synthesis and Application of Ruthenium(II) Alkenyl Complexes with Perylene Fluorophores for the Detection of Toxic Vapours and Gases. <i>Chemistry - A European Journal</i> , 2019, 25, 14214-14222.	1.7	8
92	From Waste to Green Applications: The Use of Recovered Gold and Palladium in Catalysis. <i>Molecules</i> , 2021, 26, 5217.	1.7	8
93	Multifunctional Dithiocarbamates: Synthesis and Ring-Closing Metathesis of Diallyldithiocarbamate Complexes. <i>Organometallics</i> , 2011, 30, 2068-2069.	1.1	7
94	The stepwise generation of multimetallic complexes based on a vinylbipyridine linkage and their photophysical properties. <i>Dalton Transactions</i> , 2017, 46, 5558-5570.	1.6	7
95	Thiolate Complexes of Gold(I) Based on a Tris(phosphine) Support. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001, 56, 1257-1263.	0.3	4
96	Heteromultimetallic compounds based on polyfunctional carboxylate linkers. <i>New Journal of Chemistry</i> , 2019, 43, 3199-3207.	1.4	4
97	Heterotrimetallic complexes of iron and ruthenium based on vinyliminium dithiocarboxylate ligands. <i>Journal of Organometallic Chemistry</i> , 2019, 886, 9-12.	0.8	4
98	Metallostar Assemblies Based on Dithiocarbamates for Use as MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2020, 59, 10813-10823.	1.9	4
99	From Recovered Palladium to Molecular and Nanoscale Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	3.2	3
100	Pyrrole Thioaldehyde Complexes of Nickel, Palladium and Platinum. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2004, 59, 1372-1378.	0.3	2