

Samuel Dagorne

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Group 1 and 2 and Early Transition Metal Complexes Bearing N-Heterocyclic Carbene Ligands: Coordination Chemistry, Reactivity, and Applications. <i>Chemical Reviews</i> , 2014, 114, 8747-8774.	23.0	278
2	Structurally well-defined group 4 metal complexes as initiators for the ring-opening polymerization of lactide monomers. <i>Dalton Transactions</i> , 2013, 42, 9007.	1.6	263
3	Synthesis and Structures of Cationic Aluminum and Gallium Amidinate Complexes. <i>Journal of the American Chemical Society</i> , 2000, 122, 274-289.	6.6	228
4	Gallium and indium complexes for ring-opening polymerization of cyclic ethers, esters and carbonates. <i>Coordination Chemistry Reviews</i> , 2013, 257, 1869-1886.	9.5	190
5	Synthesis, Characterization, and Applications of Group 13 Cationic Compounds. <i>Chemical Reviews</i> , 2008, 108, 4037-4071.	23.0	152
6	A robust zirconium N-heterocyclic carbene complex for the living and highly stereoselective ring-opening polymerization of rac-lactide. <i>Chemical Communications</i> , 2012, 48, 2213.	2.2	117
7	Well-Defined Cationic Alkyl- and Alkoxide-Aluminum Complexes and Their Reactivity with ϵ -Caprolactone and Lactides. <i>Chemistry - A European Journal</i> , 2007, 13, 3202-3217.	1.7	105
8	Recent Developments on the Use of Group 13 Metal Complexes in Catalysis. <i>ChemCatChem</i> , 2018, 10, 2509-2520.	1.8	94
9	Synthesis and Structure of Neutral and Cationic Aluminum Complexes Supported by Bidentate O,P-Phosphinophenolate Ligands and Their Reactivity with Propylene Oxide and μ -Caprolactone. <i>Organometallics</i> , 2009, 28, 4584-4592.	1.1	92
10	Synthesis and Structural Characterization of a Novel Family of Titanium Complexes Bearing a Tridentate Bis-phenolate-N-heterocyclic Carbene Dianionic Ligand and Their Use in the Controlled ROP of rac-Lactide. <i>Organometallics</i> , 2010, 29, 1191-1198.	1.1	91
11	Synthesis and Structural Characterization of Various N,O,N-Chelated Aluminum and Gallium Complexes for the Efficient ROP of Cyclic Esters and Carbonates: How Do Aluminum and Gallium Derivatives Compare?. <i>Organometallics</i> , 2013, 32, 587-598.	1.1	91
12	Group 13 metal (Al, Ga, In, Tl) complexes supported by heteroatom-bonded carbene ligands. <i>Coordination Chemistry Reviews</i> , 2014, 275, 63-86.	9.5	91
13	Unusual reactivity in organoaluminum and NHC chemistry: deprotonation of AlMe ₃ by an NHC moiety involving the formation of a sterically bulky NHC-AlMe ₃ Lewis adduct. <i>Chemical Communications</i> , 2010, 46, 2480.	2.2	76
14	An Aluminum Complex Supported by a Fluorous Diamino-Dialkoxide Ligand for the Highly Productive Ring-Opening Polymerization of μ -Caprolactone. <i>Organometallics</i> , 2005, 24, 6279-6282.	1.1	75
15	Organoaluminum Species in Homogeneous Polymerization Catalysis. <i>Topics in Organometallic Chemistry</i> , 2012, , 125-171.	0.7	75
16	Synthesis and structure of V(V) and Mn(III) NHC complexes supported by a tridentate bis-aryloxide-N-heterocyclic carbene ligand. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 604-606.	0.8	71
17	Synthesis and Structural Characterization of Neutral and Cationic Alkylaluminum Complexes Based on Bidentate Aminophenolate Ligands. <i>Organometallics</i> , 2003, 22, 3732-3741.	1.1	66
18	Efficient Enantioselective Hydrosilylation of Aryl Ketones Catalyzed by a Chiral BINAP-Copper(I) Catalyst-Phenyl(methyl)silane System. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1991-1994.	2.1	66

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19	Non-Innocent Behavior of a Tridentate NHC Chelating Ligand Coordinated onto a Zirconium(IV) Center. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2198-2201.	7.2	65
20	Neutral and Cationic N-Heterocyclic Carbene Zinc Adducts and the BnOH/Zn(C ₆ F ₅) ₂ Binary Mixture – Characterization and Use in the Ring-Opening Polymerization of β -Butyrolactone, Lactide, and Trimethylene Carbonate. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3699-3709.	1.0	64
21	Bis[bis(oxazolinato)] Complexes of Yttrium and Lanthanum: Molecular Structure and Use in Polymerization of dl-Lactide and dl- β -Butyrolactone. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3652-3658.	1.0	61
22	Normal-to-Abnormal NHC Rearrangement of Al ^{III} , Ga ^{III} , and In ^{III} Trialkyl Complexes: Scope, Mechanism, Reactivity Studies, and H ₂ Activation. <i>Chemistry - A European Journal</i> , 2015, 21, 17959-17972.	1.7	61
23	Novel Neutral and Cationic Aluminium Alkyl Complexes Supported by Potentially Tridentate O,N-Type Aminophenolate Ligands and Their Use in Propylene Oxide Polymerization. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4701-4709.	1.0	57
24	P,O-Phosphinophenolate zinc (η^2) species: synthesis, structure and use in the ring-opening polymerization (ROP) of lactide, μ -caprolactone and trimethylene carbonate. <i>Dalton Transactions</i> , 2015, 44, 12376-12387.	1.6	56
25	Accessing Two-coordinate Zn ^{II} Organocations by NHC Coordination: Synthesis, Structure, and Use as σ -Lewis Acids in Alkene, Alkyne, and CO ₂ Hydrosilylation. <i>Chemistry - A European Journal</i> , 2017, 23, 15908-15912.	1.7	56
26	Highly active zinc alkyl cations for the controlled and immortal ring-opening polymerization of μ -caprolactone. <i>Dalton Transactions</i> , 2012, 41, 3377.	1.6	55
27	Neutral and Cationic N-Heterocyclic Carbene Zirconium and Hafnium Benzyl Complexes: Highly Regioselective Oligomerization of 1-Hexene with a Preference for Trimer Formation. <i>Organometallics</i> , 2013, 32, 2736-2743.	1.1	53
28	Redox and Luminescent Properties of Robust and Air-Stable N-Heterocyclic Carbene Group 4 Metal Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 7371-7376.	1.9	52
29	Recent progress on NHC-stabilized early transition metal (group 3-7) complexes: Synthesis and applications. <i>Coordination Chemistry Reviews</i> , 2020, 422, 213411.	9.5	52
30	Main-Group-Metal Chlorobenzene Complexes. <i>Organometallics</i> , 2001, 20, 3367-3369.	1.1	51
31	Synthesis and structural characterization of well-defined anionic aluminium alkoxide complexes supported by NON-type diamido ether tridentate ligands and their use for the controlled ROP of lactide. <i>Dalton Transactions</i> , 2010, 39, 533-540.	1.6	51
32	Synthesis and Structure of Neutral and Cationic Aluminum Complexes Incorporating Bis(oxazolinato) Ligands. <i>Organometallics</i> , 2004, 23, 3053-3061.	1.1	50
33	Recent Developments on N-Heterocyclic Carbene Supported Zinc Complexes: Synthesis and Use in Catalysis. <i>Synthesis</i> , 2018, 50, 3662-3670.	1.2	48
34	NHC Bis-Phenolate Aluminum Chelates: Synthesis, Structure, and Use in Lactide and Trimethylene Carbonate Polymerization. <i>Organometallics</i> , 2014, 33, 5730-5739.	1.1	47
35	Sterically Crowded Gallium Amidinate Complexes. <i>Organometallics</i> , 1999, 18, 4619-4623.	1.1	46
36	Mechanistic Studies on the Copper-Catalyzed Hydrosilylation of Ketones. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 529-541.	1.0	45

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37	Tridentate Complexes of Group 10 Bearing Bis-Aryloxy N-Heterocyclic Carbene Ligands: Synthesis, Structural, Spectroscopic, and Computational Characterization. <i>Organometallics</i> , 2014, 33, 4374-4384.	1.1	45
38	Synthesis of Transition-Metal Steroid Derivatives. <i>Chemical Reviews</i> , 2013, 113, 7793-7850.	23.0	43
39	N-Heterocyclic Carbene Based Triorganylzinc Alkyl Cations: Synthesis, Structures, and Use in CO ₂ Functionalization. <i>Chemistry - A European Journal</i> , 2017, 23, 5509-5519.	1.7	43
40	Metal Complexes Incorporating Monoanionic Bisoxazolinato Ligands: Synthesis, Structures, Reactivity and Applications in Asymmetric Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 913-925.	1.0	41
41	A Discrete Five-Coordinated Cationic Aluminum Complex Supported by a Fluorinated Dialkoxy-Diimino Salen-like Ligand: Synthesis, Structure, and Use in Polymerization Catalysis. <i>Organometallics</i> , 2010, 29, 1865-1868.	1.1	41
42	Controlled ring-opening polymerization of trimethylene carbonate and access to PTMC-PLA block copolymers mediated by well-defined N-heterocyclic carbene zinc alkoxides. <i>Applied Organometallic Chemistry</i> , 2014, 28, 504-511.	1.7	40
43	Synthesis and Structure of a Four-Coordinate Aluminum Alkyl Cation/HB(C ₆ F ₅) ₃ Salt: Implication in a B(C ₆ F ₅) ₃ -Catalyzed Hydroalumination Reaction of Benzophenone or Benzaldehyde. <i>Organometallics</i> , 2004, 23, 4706-4710.	1.1	37
44	Low valent Al(III) Al(III) catalysts as highly active μ -caprolactone polymerization catalysts: indication of metal cooperativity through DFT studies. <i>Dalton Transactions</i> , 2018, 47, 13800-13808.	1.6	35
45	Stereoselective Synthesis of Biphenolate/Binaphtolate Titanate and Zirconate Alkoxide Species: Structural Characterization and Use in the Controlled ROP of Lactide. <i>Inorganic Chemistry</i> , 2012, 51, 10876-10883.	1.9	34
46	Organo-catalyzed/initiated ring opening co-polymerization of cyclic anhydrides and epoxides: an emerging story. <i>Polymer Chemistry</i> , 2021, 12, 2932-2946.	1.9	34
47	Novel N,O,N-Supported Tetracoordinate Aluminum Complexes for the Highly Controlled and Immortal ROP of Trimethylene Carbonate (TMC) under Mild Conditions: Access to Narrowly Disperse poly-TMC and Derived Copolymers. <i>Organometallics</i> , 2011, 30, 5457-5462.	1.1	33
48	Dinuclear Zinc-N-Heterocyclic Carbene Complexes for Either the Controlled Ring-Opening Polymerization of Lactide or the Controlled Degradation of Polylactide Under Mild Conditions. <i>ChemCatChem</i> , 2014, 6, 1357-1367.	1.8	33
49	Stereoselective Propene Insertion Reactions of $\text{rac}-(\text{EBI})\text{Zr}(\text{i-2-pyridyl})_2$ Complexes. <i>Organometallics</i> , 1997, 16, 5541-5555.	1.1	32
50	Functionalized cationic (η -6-arene)ruthenium(II) complexes for site-specific and covalent anchoring to papain from papaya latex. Synthesis, X-ray structures and reactivity studies. <i>Tetrahedron Letters</i> , 2008, 49, 4670-4673.	0.7	28
51	Group 13 metal (Al, Ga, In) alkyls supported by N-heterocyclic carbenes for use in lactide ring-opening polymerization catalysis. <i>Catalysis Today</i> , 2017, 289, 204-210.	2.2	28
52	Cyclic(Alkyl)(Amino)Carbene (CAAC)-Supported Zn Alkyls: Synthesis, Structure and Reactivity in Hydrosilylation Catalysis. <i>Chemistry - A European Journal</i> , 2019, 25, 8061-8069.	1.7	28
53	Synthesis and Magnetic Properties of New Mono- and Binuclear Iron Complexes with Salicyloylhydrazono Dithiolane Ligand. <i>Inorganic Chemistry</i> , 2008, 47, 7623-7630.	1.9	26
54	Synthesis and structural characterization of novel cyclam-based zirconium complexes and their use in the controlled ROP of <i>rac</i> -lactide: access to cyclam-functionalized polylactide materials. <i>Dalton Transactions</i> , 2012, 41, 14288.	1.6	26

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55	A Discrete N ₂ O ₂ -Supported Gallium Amido Complex for the Intermolecular Hydroamination of Terminal Alkynes. <i>Organometallics</i> , 2012, 31, 1189-1194.	1.1	26
56	Unusual Benzyl Migration Reactivity in NHC-Bearing Group 4 Metal Chelates: Synthesis, Characterization, and Mechanistic Investigations. <i>Organometallics</i> , 2015, 34, 4854-4863.	1.1	25
57	Multitask Imidazolium Salt Additives for Innovative Poly(lactide) Biomaterials: Morphology Control, <i>Candida</i> spp. Biofilm Inhibition, Human Mesenchymal Stem Cell Biocompatibility, and Skin Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21163-21176.	4.0	23
58	Synthesis and Structure of Neutral and Cationic Gallium Complexes Incorporating Bis(oxazolinato) Ligands. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4206-4214.	1.0	21
59	Mononuclear salen-gallium complexes for iso-selective ring-opening polymerization (ROP) of rac-lactide. <i>Dalton Transactions</i> , 2017, 46, 12824-12834.	1.6	21
60	Hydro-, Carbo-, and Cycloaluminum of Unsaturated Compounds. <i>Topics in Organometallic Chemistry</i> , 2012, , 215-244.	0.7	19
61	Synthesis and structural characterization of NHC-stabilized Al(III) and Ga(III) alkyl cations and use in the ring-opening polymerization of lactide. <i>Journal of Organometallic Chemistry</i> , 2016, 820, 8-13.	0.8	18
62	Exploring the Limits of π -Acid Catalysis Using Strongly Electrophilic Main Group Metal Complexes: The Case of Zinc and Aluminium. <i>Chemistry - A European Journal</i> , 2020, 26, 12831-12838.	1.7	18
63	A practical concept for the kinetic resolution of a chiral secondary alcohol based on a polymeric silane. <i>Journal of Molecular Catalysis A</i> , 2008, 286, 6-10.	4.8	17
64	Bifunctional Squaramides as Organocatalysts for Lactide Polymerization: Catalytic Performance and Comparison with Monofunctional Analogues. <i>ChemCatChem</i> , 2017, 9, 3041-3046.	1.8	16
65	Phenoxyamidine Zn and Al Complexes: Synthesis, Characterization, and Use in the Ring-Opening Polymerization of Lactide. <i>Organometallics</i> , 2019, 38, 4147-4157.	1.1	16
66	Towards Naked Zinc(II) in the Condensed Phase: A Highly Lewis Acidic Zn ^{II} Dication Stabilized by Weakly Coordinating Carborate Anions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2084-2088.	7.2	16
67	Novel Cr(III) dinuclear complexes supported by salicyloylhydrazono dithiolane and dithiane ligands: Synthesis, stability, crystal structures and magnetic properties. <i>Dalton Transactions</i> , 2010, 39, 4579.	1.6	14
68	NHC-stabilized Al(III) and Ga(III) cationic alkyls: Synthesis, structure and use in hydrosilylation catalysis. <i>Polyhedron</i> , 2021, 194, 114956.	1.0	14
69	Recent Representative Advances on the Synthesis and Reactivity of π -Heterocyclic Carbene-Supported Zinc Complexes. <i>Chemical Record</i> , 2021, 21, 1130-1143.	2.9	14
70	Stability, molecular structures and magnetic properties of dinuclear iron complexes supported by benzoic hydrazide derivative ligands. <i>Inorganica Chimica Acta</i> , 2010, 363, 213-220.	1.2	13
71	Zinc bis-pyrrolide-imine complexes: Synthesis, structure and application in ring-opening polymerization of rac-lactide. <i>Journal of Organometallic Chemistry</i> , 2018, 863, 95-101.	0.8	13
72	Phosphasalen group IV metal complexes: synthesis, characterization and ring opening polymerization of lactide. <i>Dalton Transactions</i> , 2020, 49, 6989-7004.	1.6	13

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73	Structural, magnetic and optical properties of an Fe ^{III} dimer bridged by the meridional planar divergent N,N'-bis(salicyl)hydrazide and its photo- and electro-chemistry in solution. Dalton Transactions, 2013, 42, 1406-1416.	1.6	12
74	Synthesis and Characterization of Neutral and Cationic Magnesium Complexes Supported by NHC Ligands. Organometallics, 2019, 38, 2748-2757.	1.1	12
75	O,N Mono-aminophenolate neutral and cationic group-13 complexes: synthesis, structure and reactivity. Comptes Rendus Chimie, 2006, 9, 1143-1150.	0.2	11
76	Reactivity studies of a four-coordinate methyl chloro aluminium aminophenolate complex with B(C ₆ F ₅) ₃ . Journal of Organometallic Chemistry, 2006, 691, 4797-4801.	0.8	11
77	Spontaneous Reduction of High Spin Fe ^{III} Complexes Supported by Benzoic Hydrazide Derivative Ligands. European Journal of Inorganic Chemistry, 2009, 2009, 3734-3741.	1.0	11
78	Enantioselective hydrosilylation of prochiral ketones catalyzed by chiral BINAP-copper(I) complexes. Comptes Rendus Chimie, 2010, 13, 353-357.	0.2	11
79	Organoaluminum Complexes with Bonds to s-Block, p-Block, d-Block, and f-Block Metal Centers. Topics in Organometallic Chemistry, 2012, , 59-90.	0.7	11
80	Low Valent Organoaluminum (+I, +II) Species. Topics in Organometallic Chemistry, 2012, , 91-124.	0.7	11
81	Simple Trivalent Organoaluminum Species: Perspectives on Structure, Bonding, and Reactivity. Topics in Organometallic Chemistry, 2012, , 1-58.	0.7	11
82	Synthesis, Characterization and Catalytic Activity of NHC Gold(I) Polyoxometalate Complexes. Chemistry - A European Journal, 2018, 24, 12630-12637.	1.7	11
83	Organoaluminum Couplings to Carbonyls, Imines, and Halides. Topics in Organometallic Chemistry, 2012, , 245-276.	0.7	10
84	Acetate-catalyzed hydroboration of CO ₂ for the selective formation of methanol-equivalent products. Catalysis Science and Technology, 2020, 10, 2407-2414.	2.1	10
85	Synthesis, Characterization and Luminescence Properties of Dipyridin-2-ylamine Ligands and Their Bis(2,2'-bipyridyl)ruthenium(II) Complexes and Labelling Studies of Papain from Carica papaya. European Journal of Inorganic Chemistry, 2010, 2010, 5087-5095.	1.0	8
86	Structural diversity and versatility for organoaluminum complexes supported by mono- and di-anionic aminophenolate bidentate ligands. Journal of Organometallic Chemistry, 2012, 696, 4248-4256.	0.8	8
87	Preparation of Organoalanes for Organic Synthesis. Topics in Organometallic Chemistry, 2012, , 173-186.	0.7	8
88	Deprotonation of Al ₂ Me ₆ by Sterically Bulky NHCs: Scope, Rationale through DFT Studies, and Application in the Methylenation of Carbonyl Substrates. Organometallics, 2016, 35, 1726-1734.	1.1	8
89	Sterically Bulky NHC Adducts of GaMe ₃ and InMe ₃ for H ₂ Activation and Lactide Polymerization. Inorganics, 2018, 6, 23.	1.2	8
90	Great enhancement of mechanical features in PLA based composites containing aligned few layer graphene (FLG), the effect of FLG loading, size, and dispersion on mechanical and thermal properties. Journal of Applied Polymer Science, 2021, 138, 51300.	1.3	8

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91	Synthesis and structure of four-coordinate dimethyl aluminium complexes incorporating new N,O-chelating arylamido ligands. <i>Journal of Organometallic Chemistry</i> , 2003, 682, 240-247.	0.8	7
92	Reactions Triggered by Lewis Acidic Organoaluminum Species. <i>Topics in Organometallic Chemistry</i> , 2012, , 187-214.	0.7	7
93	Synthesis, crystal structures and use in ethylene oligomerization catalysis of novel mono- and dinuclear nickel complexes supported by (E)-N ² -(1-(thiophen-2-yl)ethylidene)benzohydrazide ligand. <i>Inorganica Chimica Acta</i> , 2012, 383, 213-219.	1.2	7
94	A dicationic gallium-oxo-hydroxide cage compound. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, 1213-1215.	0.4	6
95	Organometal-catalyzed synthesis of high molecular weight poly-(l-lactic acid) with a covalently attached imidazolium salt: performance-enhanced reduced graphene oxide-PLLA biomaterials. <i>New Journal of Chemistry</i> , 2019, 43, 16367-16373.	1.4	6
96	Combining NHC bis-Phenolate Ligands with Oxophilic Metal Centers: A Powerful Approach for the Development of Robust and Highly Effective Organometallic Catalysts. <i>Chimia</i> , 2014, 68, 500.	0.3	6
97	Conjugate Addition of Organoaluminum Species to Michael Acceptors and Related Processes. <i>Topics in Organometallic Chemistry</i> , 2012, , 277-306.	0.7	5
98	Controlled and highly effective ring-opening polymerization of ϵ -chloro- ϵ -caprolactone using Zn- and Al-based catalysts. <i>Journal of Polymer Science</i> , 2020, 58, 1197-1206.	2.0	5
99	Bis(isopropylamino)methylcarbenium tetrakis(pentafluorophenyl)gallate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, e134-e135.	0.4	4
100	Isolation of fac-[Re(CO) ₃ (HMPA) ₃][BF ₄]. Structural characterization of a key cationic intermediate in the exchange reaction between [Re(CO) ₆][BF ₄] and acetylferrocene. Implications in radiopharmaceutical chemistry. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 273-276.	0.8	4
101	Synthesis and structure of four-coordinate gallium aminophenolate complexes and studies of their reactivity toward B(C ₆ F ₅) ₃ . <i>Main Group Chemistry</i> , 2006, 5, 111-124.	0.4	4
102	Towards Naked Zinc(II) in the Condensed Phase: A Highly Lewis Acidic Zn ^{II} Dication Stabilized by Weakly Coordinating Carborate Anions. <i>Angewandte Chemie</i> , 2021, 133, 2112-2116.	1.6	4
103	Cationic organometallic complexes of group 12 metals: A decade of progress toward the quest of novel Lewis acidic catalysts. <i>Coordination Chemistry Reviews</i> , 2022, 469, 214647.	9.5	4
104	Metal Complexes as Catalysts/Moderators for Polymerization Reactions. , 2021, , 410-464.		3
105	Two-coordinate NHC-Supported Zn ^{II} Organocations: Steric and Electronic Tunability and Use in Alkyne Hydroboration Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	3
106	A cationic hydroxo-bridged dinuclear gallium complex. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2001, 57, 143-144.	0.4	2
107	A new optically pure half-sandwich Cp [*] Ru diphosphine complex with a chiral metal centre, (S)-Ru(η -5-C ₅ H ₅)(EPHOS)Cl {EPHOS is (+)-(1R,2S)-2-[(diphenylphosphino)methylamino]-1-phenylpropyl diphenylphosphinite}. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, m551-m552.	0.4	2