Simon B Duckett

List of Publications by Year
in descending order

184 papers	8,561 citations	46918 47 h-index	56606 83 g-index
189 all docs	189 docs citations	189 times ranked	3243 citing authors

#	Article	IF	Citations
1	Contrasting Photochemical and Thermal Catalysis by Ruthenium Arsine Complexes Revealed by Parahydrogen Enhanced NMR Spectroscopy. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	2
2	SABRE hyperpolarized anticancer agents for use in ¹ H MRI. Magnetic Resonance in Medicine, 2022, , .	1.9	2
3	Real-Time High-Sensitivity Reaction Monitoring of Important Nitrogen-Cycle Synthons by ¹⁵N Hyperpolarized Nuclear Magnetic Resonance. Journal of the American Chemical Society, 2022, 144, 8756-8769.	6.6	10
4	Zintl cluster supported low coordinate Rh(<scp>i</scp>) centers for catalytic H/D exchange between H₂and D₂. Chemical Science, 2022, 13, 7626-7633.	3.7	14
5	Reversible Hyperpolarization of Ketoisocaproate Using Sulfoxideâ€containing Polarization Transfer Catalysts. ChemPhysChem, 2021, 22, 13-17.	1.0	10
6	Hyperpolarisation of weakly binding N-heterocycles using signal amplification by reversible exchange. Chemical Science, 2021, 12, 5910-5917.	3.7	10
7	Î·²-Alkene Complexes of [Rh(PONOP-ⁱPr)(L)]⁺ Cations (L = COD, NBD,) Tj ETQq1 1 0.784314 rgB [Rh(PONOP-ⁱPr)(Î·-H₂)]⁺. Inorganic Chemistry, 2021, 60, 13903-13912.	1.9	11
8	Steric and electronic effects on the ¹H hyperpolarisation of substituted pyridazines by signal amplification by reversible exchange. Magnetic Resonance in Chemistry, 2021, 59, 1187-1198.	1.1	4
9	Parawasserstoffâ€induzierte Polarisation von AminosÃuren. Angewandte Chemie, 2021, 133, 23688.	1.6	2
10	Parahydrogenâ€Induced Polarization of Amino Acids. Angewandte Chemie - International Edition, 2021, 60, 23496-23507.	7.2	34
11	Exploring the hyperpolarisation of EGTA-based ligands using SABRE. Dalton Transactions, 2021, 50, 2448-2461.	1.6	2
12	Bridging the Gap from Mononuclear Pd^{II} Precatalysts to Pd Nanoparticles: Identification of Intermediate Linear [Pd₃(XPh₃)₄]²⁺ Clusters as Catalytic Species for Suzukiâ€“Miyaura Couplings (X = P, As). Organometallics, 2021, 40, 3560-3570.	1.1	17
13	Breaking bonds over many timescales: in celebration of Robin Perutz's 70th birthday. Dalton Transactions, 2020, 49, 254-255.	1.6	0
14	The Detection and Reactivity of Silanols and Silanes Using Hyperpolarized 29 Si Nuclear Magnetic Resonance. Angewandte Chemie, 2020, 132, 2732-2736.	1.6	9
15	The Detection and Reactivity of Silanols and Silanes Using Hyperpolarized 29 Si Nuclear Magnetic Resonance. Angewandte Chemie - International Edition, 2020, 59, 2710-2714.	7.2	12
16	Understanding the mechanism of cisâ€“trans isomerism in photo-active palladium(II) complexes derived from the N,N-di-substituted benzoylthioureas. Inorganica Chimica Acta, 2020, 512, 119884.	1.2	6
17	The use of yttrium in medical imaging and therapy: historical background and future perspectives. Chemical Society Reviews, 2020, 49, 6169-6185.	18.7	30
18	Remarkable Levels of ¹⁵N Polarization Delivered through SABRE into Unlabeled Pyridine, Pyrazine, or Metronidazole Enable Single Scan NMR Quantification at the mM Level. Journal of Physical Chemistry B, 2020, 124, 4573-4580.	1.2	33

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19	Using SABRE Hyperpolarized ¹³C NMR Spectroscopy to Interrogate Organic Transformations of Pyruvate. Analytical Chemistry, 2020, 92, 9095-9103.	3.2	15
20	A role for low concentration reaction intermediates in the signal amplification by reversible exchange process revealed by theory and experiment. Physical Chemistry Chemical Physics, 2020, 22, 5033-5037.	1.3	6
21	Parawasserstoffâ€induzierte Hyperpolarisation von Gasen. Angewandte Chemie, 2020, 132, 17940-17949.	1.6	1
22	Optimisation of pyruvate hyperpolarisation using SABRE by tuning the active magnetisation transfer catalyst. Catalysis Science and Technology, 2020, 10, 1343-1355.	2.1	41
23	Parahydrogenâ€Induced Hyperpolarization of Gases. Angewandte Chemie - International Edition, 2020, 59, 17788-17797.	7.2	27
24	A simple and cost-efficient technique to generate hyperpolarized long-lived 15N-15N nuclear spin order in a diazine by signal amplification by reversible exchange. Journal of Chemical Physics, 2020, 152, 014201.	1.2	9
25	Understanding substrate substituent effects to improve catalytic efficiency in the SABRE hyperpolarisation process. Catalysis Science and Technology, 2019, 9, 3914-3922.	2.1	9
26	Towards measuring reactivity on micro-to-millisecond timescales with laser pump, NMR probe spectroscopy. Faraday Discussions, 2019, 220, 28-44.	1.6	1
27	Relayed hyperpolarization from para-hydrogen improves the NMR detectability of alcohols. Chemical Science, 2019, 10, 7709-7717.	3.7	27
28	Probing the Hydrogenation of Vinyl Sulfoxides Using para-Hydrogen. Organometallics, 2019, 38, 4377-4382.	1.1	9
29	Using para hydrogen induced polarization to study steps in the hydroformylation reaction. Dalton Transactions, 2019, 48, 2664-2675.	1.6	7
30	Hyperpolarising Pyruvate through Signal Amplification by Reversible Exchange (SABRE). Angewandte Chemie - International Edition, 2019, 58, 10271-10275.	7.2	87
31	Hyperpolarising Pyruvate through Signal Amplification by Reversible Exchange (SABRE). Angewandte Chemie, 2019, 131, 10377-10381.	1.6	52
32	Pharmacokinetics of the SABRE agent 4,6-d2-nicotinamide and also nicotinamide in rats following oral and intravenous administration. European Journal of Pharmaceutical Sciences, 2019, 135, 32-37.	1.9	13
33	Reaction Monitoring Using SABRE-Hyperpolarized Benchtop (1 T) NMR Spectroscopy. Analytical Chemistry, 2019, 91, 6695-6701.	3.2	39
34	Using coligands to gain mechanistic insight into iridium complexes hyperpolarized with para-hydrogen. Chemical Science, 2019, 10, 5235-5245.	3.7	20
35	Reversible photo-isomerization of cis-[Pd(L-Î²S,O)₂] (HL = 1j ETQq1 1 0.784314 rgBT /Overlock 10 trans-[Pd(L-Î²S,O)₂] and the unprecedented formation of trans-[Pd(L-Î²S,N)₂] in solution. Dalton Transactions, 2019, 48, 17241-17251.	1.6	16
36	In Situ SABRE Hyperpolarization with Earthâ€™s Field NMR Detection. Molecules, 2019, 24, 4126.	1.7	8

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37	Mechanistic insight into novel sulfoxide containing SABRE polarisation transfer catalysts. Dalton Transactions, 2019, 48, 15198-15206.	1.6	18
38	Rapid¹³C NMR hyperpolarization delivered frompara-hydrogen enables the low concentration detection and quantification of sugars. Chemical Science, 2019, 10, 10607-10619.	3.7	26
39	Iridium Î±â€Carboxyimine Complexes Hyperpolarized with paraâ€Hydrogen Exist in Nuclear Singlet States before Conversion into Iridium Carbonates. ChemPhysChem, 2019, 20, 241-245.	1.0	17
40	Catalystâ€Substrate Effects on Biocompatible SABRE Hyperpolarization. ChemPhysChem, 2019, 20, 285-294.	1.0	9
41	Direct and indirect hyperpolarisation of amines using parahydrogen. Chemical Science, 2018, 9, 3677-3684.	3.7	53
42	SABRE-Relay: A Versatile Route to Hyperpolarization. Journal of Physical Chemistry Letters, 2018, 9, 1112-1117.	2.1	57
43	Competing Pathways in the Photochemistry of Ru(H)₂(CO)(PPh₃)₃. Organometallics, 2018, 37, 855-868.	1.1	8
44	SignalverstÃrkung durch reversiblen Austausch (SABRE): von der Entdeckung zur diagnostischen Anwendung. Angewandte Chemie, 2018, 130, 6854-6866.	1.6	21
45	Extending the Scope of ¹⁹F Hyperpolarization through Signal Amplification by Reversible Exchange in MRI and NMR Spectroscopy. ChemistryOpen, 2018, 7, 97-105.	0.9	34
46	Using ²H labelling to improve the NMR detectability of pyridine and its derivatives by SABRE. Magnetic Resonance in Chemistry, 2018, 56, 663-671.	1.1	13
47	Signal Amplification by Reversible Exchange (SABRE): From Discovery to Diagnosis. Angewandte Chemie - International Edition, 2018, 57, 6742-6753.	7.2	101
48	Using para hydrogen to hyperpolarize amines, amides, carboxylic acids, alcohols, phosphates, and carbonates. Science Advances, 2018, 4, eaao6250.	4.7	109
49	A simple handâ€held magnet array for efficient and reproducible <scp>SABRE</scp> hyperpolarisation using manual sample shaking. Magnetic Resonance in Chemistry, 2018, 56, 641-650.	1.1	18
50	Achieving Biocompatible SABRE: An inâ€...vitro Cytotoxicity Study. ChemMedChem, 2018, 13, 352-359.	1.6	36
51	Quantification of hyperpolarisation efficiency in SABRE and SABRE-Relay enhanced NMR spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 26362-26371.	1.3	31
52	Unlocking a Diazirine Long-Lived Nuclear Singlet State via Photochemistry: NMR Detection and Lifetime of an Unstabilized Diazo-Compound. Journal of the American Chemical Society, 2018, 140, 16855-16864.	6.6	24
53	Quantitative In Situ Monitoring of Parahydrogen Fraction Using Raman Spectroscopy. Applied Spectroscopy, 2018, 73, 000370281879864.	1.2	6
54	Fine-tuning the efficiency of para-hydrogen-induced hyperpolarization by rational N-heterocyclic carbene design. Nature Communications, 2018, 9, 4251.	5.8	71

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55	Harnessing asymmetric N-heterocyclic carbene ligands to optimise SABRE hyperpolarisation. Catalysis Science and Technology, 2018, 8, 4925-4933.	2.1	22
56	Using hyperpolarised NMR and DFT to rationalise the unexpected hydrogenation of quinazoline to 3,4-dihydroquinazoline. Chemical Communications, 2018, 54, 10375-10378.	2.2	10
57	SABRE hyperpolarization enables high-sensitivity ¹H and ¹³C benchtop NMR spectroscopy. Analyst, The, 2018, 143, 3442-3450.	1.7	49
58	Harnessing polarisation transfer to indazole and imidazole through signal amplification by reversible exchange to improve their NMR detectability. Magnetic Resonance in Chemistry, 2017, 55, 944-957.	1.1	28
59	Following palladium catalyzed methoxycarbonylation by hyperpolarized NMR spectroscopy: a parahydrogen based investigation. Catalysis Science and Technology, 2017, 7, 2101-2109.	2.1	9
60	A Simple Route to Strong Carbonâ€13 NMR Signals Detectable for Several Minutes. Chemistry - A European Journal, 2017, 23, 10496-10500.	1.7	34
61	Achieving High Levels of NMRâ€Hyperpolarization in Aqueous Media With Minimal Catalyst Contamination Using SABRE. Chemistry - A European Journal, 2017, 23, 10491-10495.	1.7	54
62	Coherent evolution of para hydrogen induced polarisation using laser pump, NMR probe spectroscopy: Theoretical framework and experimental observation. Journal of Magnetic Resonance, 2017, 278, 25-38.	1.2	10
63	Synthesis and hyperpolarisation of eNOS substrates for quantification of NO production by 1 H NMR spectroscopy. Bioorganic and Medicinal Chemistry, 2017, 25, 2730-2742.	1.4	11
64	Delivering strong ¹ H nuclear hyperpolarization levels and long magnetic lifetimes through signal amplification by reversible exchange. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3188-E3194.	3.3	115
65	SABRE hyperpolarisation of vitamin B3 as a function of pH. Chemical Science, 2017, 8, 2257-2266.	3.7	43
66	Direct enhancement of nitrogen-15 targets at high-field by fast ADAPT-SABRE. Journal of Magnetic Resonance, 2017, 285, 55-60.	1.2	34
67	Achieving High ¹H Nuclear Hyperpolarization Levels with Long Lifetimes in a Range of Tuberculosis Drug Scaffolds. Chemistry - A European Journal, 2017, 23, 16990-16997.	1.7	18
68	Frontispiece: Achieving High Levels of NMRâ€Hyperpolarization in Aqueous Media With Minimal Catalyst Contamination Using SABRE. Chemistry - A European Journal, 2017, 23, .	1.7	0
69	Frontispiece: Achieving High ¹H Nuclear Hyperpolarization Levels with Long Lifetimes in a Range of Tuberculosis Drug Scaffolds. Chemistry - A European Journal, 2017, 23, .	1.7	0
70	Creating a hyperpolarised pseudo singlet state through polarisation transfer from parahydrogen under SABRE. Chemical Communications, 2016, 52, 7842-7845.	2.2	24
71	Manganese(I)â€Catalyzed Câˆ'H Activation: The Key Role of a 7â€Membered Manganacycle in Hâ€Transfer and Reductive Elimination. Angewandte Chemie - International Edition, 2016, 55, 12455-12459.	7.2	111
72	Long-lived states to sustain SABRE hyperpolarised magnetisation. Physical Chemistry Chemical Physics, 2016, 18, 24905-24911.	1.3	50

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73	Photochemical pump and NMR probe to monitor the formation and kinetics of hyperpolarized metal dihydrides. Chemical Science, 2016, 7, 7087-7093.	3.7	16
74	Using signal amplification by reversible exchange (SABRE) to hyperpolarise ¹¹⁹Sn and ²⁹Si NMR nuclei. Chemical Communications, 2016, 52, 14482-14485.	2.2	48
75	Manganese(I)â€Catalyzed Câ^'H Activation: The Key Role of a 7â€Membered Manganacycle in Hâ€Transfer and Reductive Elimination. Angewandte Chemie, 2016, 128, 12643-12647.	1.6	54
76	A Hyperpolarizable ¹H Magnetic Resonance Probe for Signal Detection 15â€...Minutes after Spin Polarization Storage. Angewandte Chemie, 2016, 128, 15871-15874.	1.6	16
77	A Hyperpolarizable ¹H Magnetic Resonance Probe for Signal Detection 15â€...Minutes after Spin Polarization Storage. Angewandte Chemie - International Edition, 2016, 55, 15642-15645.	7.2	36
78	Iridium Cyclooctene Complex That Forms a Hyperpolarization Transfer Catalyst before Converting to a Binuclear Câ€“H Bond Activation Product Responsible for Hydrogen Isotope Exchange. Inorganic Chemistry, 2016, 55, 11639-11643.	1.9	14
79	Solvent responsive catalyst improves NMR sensitivity via efficient magnetisation transfer. Chemical Communications, 2016, 52, 8467-8470.	2.2	11
80	Molecular MRI in the Earthâ€™s Magnetic Field Using Continuous Hyperpolarization of a Biomolecule in Water. Journal of Physical Chemistry B, 2016, 120, 5670-5677.	1.2	37
81	Facing and Overcoming Sensitivity Challenges in Biomolecular NMR Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 9162-9185.	7.2	258
82	Detection of Ïƒ-alkane complexes of manganese by NMR and IR spectroscopy in solution: (Î·⁵-C₅H₅)Mn(CO)₂(ethane) and (Î·⁵-C₅H₅)Mn(CO)₂(isopentane). Chemical Science, 2015, 6, 418-424.	3.7	28
83	Deactivation of signal amplification by reversible exchange catalysis, progress towards in vivo application. Chemical Communications, 2015, 51, 9857-9859.	2.2	44
84	Catalytic Transfer of Magnetism Using a Neutral Iridium Phenoxide Complex. Organometallics, 2015, 34, 2997-3006.	1.1	23
85	Strategies for the Hyperpolarization of Acetonitrile and Related Ligands by SABRE. Journal of Physical Chemistry B, 2015, 119, 1416-1424.	1.2	87
86	The reaction of an iridium PNP complex with parahydrogen facilitates polarisation transfer without chemical change. Dalton Transactions, 2015, 44, 1077-1083.	1.6	30
87	Utilisation of water soluble iridium catalysts for signal amplification by reversible exchange. Dalton Transactions, 2015, 44, 7870-7880.	1.6	49
88	Improving the Hyperpolarization of ³¹P Nuclei by Synthetic Design. Journal of Physical Chemistry B, 2015, 119, 5020-5027.	1.2	65
89	Investigating pyridazine and phthalazine exchange in a series of iridium complexes in order to define their role in the catalytic transfer of magnetisation from para-hydrogen. Chemical Science, 2015, 6, 3981-3993.	3.7	43
90	Toward Biocompatible Nuclear Hyperpolarization Using Signal Amplification by Reversible Exchange: Quantitative in Situ Spectroscopy and High-Field Imaging. Analytical Chemistry, 2014, 86, 1767-1774.	3.2	105

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91	Hyperpolarisation through reversible interactions with parahydrogen. Catalysis Science and Technology, 2014, 4, 3544-3554.	2.1	84
92	Photochemical studies of (Î·⁵-C₅H₅)Ru(PPh₃)₂Cl and (Î·⁵-C₅H₅)Ru(PPh₃)₂Me: formation of Siâ€“H and Câ€“H bond activation products. Dalton Transactions, 2014, 43, 1162-1171.	1.6	13
93	Hydrogen Activation by an Aromatic Triphosphabenzene. Journal of the American Chemical Society, 2014, 136, 13453-13457.	6.6	71
94	Photochemical Pump and NMR Probe: Chemically Created NMR Coherence on a Microsecond Time Scale. Journal of the American Chemical Society, 2014, 136, 10124-10131.	6.6	39
95	Computational Studies Explain the Importance of Two Different Substituents on the Chelating Bis(amido) Ligand for Transfer Hydrogenation by Bifunctional Cp*Rh(III) Catalysts. Organometallics, 2014, 33, 3433-3442.	1.1	39
96	Probing signal amplification by reversible exchange using an NMR flow system. Magnetic Resonance in Chemistry, 2014, 52, 358-369.	1.1	81
97	A continuousâ€flow, highâ€throughput, highâ€pressure parahydrogen converter for hyperpolarization in a clinical setting. NMR in Biomedicine, 2013, 26, 124-131.	1.6	83
98	Activation of a (cyclooctadiene) rhodium(i) complex supported by a chiral ferrocenyl phosphine thioether ligand for hydrogenation catalysis: a combined parahydrogen NMR and DFT study. Dalton Transactions, 2013, 42, 11720.	1.6	9
99	Optimization of SABRE for polarization of the tuberculosis drugs pyrazinamide and isoniazid. Journal of Magnetic Resonance, 2013, 237, 73-78.	1.2	122
100	A hyperpolarized equilibrium for magnetic resonance. Nature Communications, 2013, 4, 2946.	5.8	126
101	Iridium(III) Hydrido N-Heterocyclic Carbeneâ€“Phosphine Complexes as Catalysts in Magnetization Transfer Reactions. Inorganic Chemistry, 2013, 52, 13453-13461.	1.9	69
102	Utilization of SABRE-Derived Hyperpolarization To Detect Low-Concentration Analytes via 1D and 2D NMR Methods. Journal of the American Chemical Society, 2012, 134, 12904-12907.	6.6	110
103	Detection of Unusual Reaction Intermediates during the Conversion of W(N₂)₂(dppe)₂ to W(H)₄(dppe)₂ and of H₂O into H₂. Journal of the American Chemical Society, 2012, 134, 18257-18265.	6.6	8
104	Photochemical-mediated solid-state [2+2]-cycloaddition reactions of an unsymmetrical dibenzylidene acetone (monothiophos-dba). CrystEngComm, 2012, 14, 5564.	1.3	21
105	Application of Parahydrogen Induced Polarization Techniques in NMR Spectroscopy and Imaging. Accounts of Chemical Research, 2012, 45, 1247-1257.	7.6	198
106	The theory and practice of hyperpolarization in magnetic resonance using parahydrogen. Progress in Nuclear Magnetic Resonance Spectroscopy, 2012, 67, 1-48.	3.9	317
107	Characterisation of tri-ruthenium dihydride complexes through the computation of NMR parameters. Dalton Transactions, 2012, 41, 4618.	1.6	10
108	Improving NMR and MRI Sensitivity with Parahydrogen. Topics in Current Chemistry, 2012, 338, 75-103.	4.0	16

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109	Manganese Alkane Complexes: An IR and NMR Spectroscopic Investigation. Journal of the American Chemical Society, 2011, 133, 2303-2310.	6.6	84
110	Iridium N-Heterocyclic Carbene Complexes as Efficient Catalysts for Magnetization Transfer from para-Hydrogen. Journal of the American Chemical Society, 2011, 133, 6134-6137.	6.6	318
111	Selective detection of hyperpolarized NMR signals derived from para-hydrogen using the Only Para-hydrogen SpectroscopY (OPSY) approach. Journal of Magnetic Resonance, 2011, 208, 49-57.	1.2	53
112	A parahydrogen based NMR study of Pt catalysed alkyne hydrogenation. Dalton Transactions, 2010, 39, 3495.	1.6	20
113	Photoinduced N2 loss as a route to long-lived organometallic alkane complexes: A time-resolved IR and NMR study. Chemical Science, 2010, 1, 622.	3.7	44
114	A theoretical basis for spontaneous polarization transfer in non-hydrogenative parahydrogen-induced polarization. Journal of Chemical Physics, 2009, 131, 194505.	1.2	188
115	Spontaneous Transfer of Parahydrogen Derived Spin Order to Pyridine at Low Magnetic Field. Journal of the American Chemical Society, 2009, 131, 13362-13368.	6.6	165
116	Reversible Interactions with para-Hydrogen Enhance NMR Sensitivity by Polarization Transfer. Science, 2009, 323, 1708-1711.	6.0	761
117	Para-Hydrogen Induced Polarization without Incorporation of Para-Hydrogen into the Analyte. Inorganic Chemistry, 2009, 48, 663-670.	1.9	104
118	A systematic approach to the generation of long-lived metal alkane complexes: combined IR and NMR study of (Tp)Re(CO)2(cyclopentane). Chemical Communications, 2009, , 1401.	2.2	27
119	An NMR study of cobalt-catalyzed hydroformylation using para-hydrogen induced polarisation. Dalton Transactions, 2009, , 2496.	1.6	29
120	Para-hydrogen induced polarisation effects in liquid phase hydrogenations catalysed by supported metal nanoparticles. Dalton Transactions, 2009, , 5074.	1.6	73
121	Parahydrogen-based NMR methods as a mechanistic probe in inorganic chemistry. Coordination Chemistry Reviews, 2008, 252, 2278-2291.	9.5	117
122	Detection of platinum dihydride bisphosphine complexes and studies of their reactivity through para-hydrogen-enhanced NMR methods. Magnetic Resonance in Chemistry, 2008, 46, S107-S114.	1.1	8
123	A DFT Study on the Mechanism of Palladium-Catalyzed Alkyne Hydrogenation: Neutral versus Cationic Pathways. Organometallics, 2008, 27, 43-52.	1.1	23
124	Palladium catalysed alkyne hydrogenation and oligomerisation: a parahydrogen based NMR investigation. Dalton Transactions, 2008, , 4270.	1.6	20
125	Only para-hydrogen spectroscopy (OPSY), a technique for the selective observation of para-hydrogen enhanced NMR signals. Chemical Communications, 2007, , 1183-1185.	2.2	84
126	Diastereoselective Oxidative Addition of Dihydrogen to IrI(CO)((R)-BINAP) and [Ir(CO)2((R)-BINAP)][SbF6]. Inorganic Chemistry, 2007, 46, 1196-1204.	1.9	14

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127	A para-Hydrogen Investigation of Palladium-Catalyzed Alkyne Hydrogenation. Journal of the American Chemical Society, 2007, 129, 6513-6527.	6.6	60
128	Low temperature in situ UV irradiation of [(Î·5-C5H5)Co(C2H4)2] in the NMR probe: formation of Co(iii) silyl hydride complexes. Dalton Transactions, 2007, , 2993-2996.	1.6	13
129	Detection of Picomole Amounts of Biological Substrates by para-Hydrogen-Enhanced NMR Methods in Conjunction with a Suitable Receptor Complex. Journal of the American Chemical Society, 2007, 129, 11012-11013.	6.6	38
130	A Model Iridium Hydroformylation System with the Large Bite Angle Ligand Xantphos:â€‰ Reactivity with Parahydrogen and Implications for Hydroformylation Catalysis. Inorganic Chemistry, 2006, 45, 7197-7209.	1.9	67
131	Use of the tetrahydroborate ligand as â€œgate-keeperâ€•and protected hydride ligand: preparation and study of alkyl hydride and acyl hydride complexes of ruthenium(ii). Dalton Transactions, 2006, , 2661-2670.	1.6	11
132	Parahydrogen studies of H2addition to Ir(i) complexes containing chiral phosphineâ€“thioether ligands: implications for catalysis. Dalton Transactions, 2006, , 3350-3359.	1.6	17
133	Contrasting photochemical and thermal reactivity of Ru(CO)2(PPh3)(dppe) towards hydrogen rationalised by parahydrogen NMR and DFT studies. Dalton Transactions, 2006, , 2072.	1.6	16
134	Palladium-Catalyzed Hydrogenation:Â Detection of Palladium Hydrides. A Joint Study Using Para-Hydrogen-Enhanced NMR Spectroscopy and Density Functional Theory. Journal of the American Chemical Society, 2006, 128, 9596-9597.	6.6	33
135	Photochemical Isomerization of N-Heterocyclic Carbene Ruthenium Hydride Complexes:Â In situ Photolysis, Parahydrogen, and Computational Studies. Journal of the American Chemical Society, 2006, 128, 7452-7453.	6.6	20
136	Coordination Chemistry and Diphenylacetylene Hydrogenation Catalysis of Planar Chiral Ferrocenylphosphane-Thioether Ligands with Cyclooctadieneiridium(I). European Journal of Inorganic Chemistry, 2006, 2006, 1803-1816.	1.0	26
137	Generation and interrogation of a pure nuclear spin state by parahydrogen-enhanced NMR spectroscopy: a defined initial state for quantum computation. Magnetic Resonance in Chemistry, 2005, 43, 200-208.	1.1	31
138	Parahydrogen derived illumination of pyridine based coordination products obtained from reactions involving rhodium phosphine complexes. Dalton Transactions, 2005, , 3773.	1.6	15
139	Photochemical reactions of [CH2(Î·5-C5H4)2][Rh(C2H4)2]2with silanes: evidence for Siâ€“C and Câ€“H activation pathways. Dalton Transactions, 2005, , 744-759.	1.6	9
140	Detection of Intermediates in Cobalt-Catalyzed Hydroformylation Using para-Hydrogen-Induced Polarization. Journal of the American Chemical Society, 2005, 127, 4994-4995.	6.6	39
141	A Parahydrogen Study of Catalytic Hydrogenation by Diphosphane-Substituted Triruthenium Clusters. European Journal of Inorganic Chemistry, 2004, 2004, 4381-4387.	1.0	11
142	Hydrogenation Studies Involving Halobis(phosphine)â€“Rhodium(i) Dimers: Use of Parahydrogen Induced Polarisation To Detect Species Present at Low Concentration. Chemistry - A European Journal, 2004, 10, 2459-2474.	1.7	42
143	Roles of a tetrahydroborate ligand in a facile route to ruthenium(ii) ethyl hydride complexes, and a kinetic study of ethane reductive elimination. Dalton Transactions, 2004, , 3788-3797.	1.6	10
144	New perspectives in hydroformylation : a para-hydrogen study. Chemical Communications, 2004, , 1826-1827.	2.2	32

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145	A combined parahydrogen and theoretical study of H2 activation by 16-electron d8 ruthenium(0) complexes and their subsequent catalytic behaviour. Dalton Transactions, 2004, , 3616.	1.6	31
146	Applications of the parahydrogen phenomenon in inorganic chemistry. Dalton Transactions, 2004, , 2601.	1.6	70
147	New insights into catalytic hydrogenation by phosphido-substituted triruthenium clusters: confirmation of intact cluster catalysis by parahydrogen NMR. Dalton Transactions, 2004, , 2108-2114.	1.6	21
148	The reaction of M(CO)3(Ph2PCH2CH2PPh2) (M = Fe, Ru) with parahydrogen: probing the electronic structure of reaction intermediates and the internal rearrangement mechanism for the dihydride products. Dalton Transactions, 2004, , 3218-3224.	1.6	39
149	Direct reaction of photogenerated diarylcarbenes at square-planar rhodium(i). Dalton Transactions, 2004, , 2746-2749.	1.6	10
150	Implementation of NMR quantum computation with parahydrogen-derived high-purity quantum states. Physical Review A, 2004, 70, .	1.0	25
151	Platinum Bis(tricyclohexylphosphine) Silyl Hydride Complexes. Organometallics, 2004, 23, 5744-5756.	1.1	68
152	Preparing High Purity Initial States for Nuclear Magnetic Resonance Quantum Computing. Physical Review Letters, 2004, 93, 040501.	2.9	74
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