Richard C D Brown

List of Publications by Year
in descending order

128	4,713	81839	123376
papers	citations	39 h-index	61 g-index

148	148	148	4119
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flow Electrolysis Cells for the Synthetic Organic Chemistry Laboratory. Chemical Reviews, 2018, 118, 4573-4591.	23.0	355
2	Developments in Furan Syntheses. Angewandte Chemie - International Edition, 2005, 44, 850-852.	7.2	311
3	Tetrazineâ€“trans-cyclooctene ligation for the rapid construction of 18F labeled probes. Chemical Communications, 2010, 46, 8043.	2.2	172
4	Recent developments in solid-phase organic synthesis. Journal of the Chemical Society Perkin Transactions 1, 1998, , 3293.	0.9	125
5	Recycling and Imaging of Nuclear Singlet Hyperpolarization. Journal of the American Chemical Society, 2013, 135, 5084-5088.	6.6	94
6	Long-Lived Nuclear Spin States in Methyl Groups and Quantum-Rotor-Induced Polarization. Journal of the American Chemical Society, 2013, 135, 18746-18749.	6.6	93
7	Enlightening the photoactive site of channelrhodopsin-2 by DNP-enhanced solid-state NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9896-9901.	3.3	93
8	Synthesis of salinomycin. Journal of the Chemical Society Perkin Transactions 1, 1998, , 9-40.	0.9	92
9	Stereocontrolled Synthesis of (â^')-Galanthamine. Organic Letters, 2007, 9, 1867-1869.	2.4	92
10	Asymmetric Permanganate-Promoted Oxidative Cyclization of 1,5-Dienes by Using Chiral Phase-Transfer Catalysis This work was supported by the EPSRC (J.F.K.) and the Royal Society (R.C.D.B.). We thank Dr. Barry Lygo (University of Nottingham) for helpful discussions, and Syngenta and Merck Sharp and Dohme for unrestricted grants.. Angewandte Chemie - International Edition, 2001, 40, 4496.	7.2	81
11	TEMPOâ€Mediated Electrooxidation of Primary and Secondary Alcohols in a Microfluidic Electrolytic Cell. ChemSusChem, 2012, 5, 326-331.	3.6	76
12	N-Heterocyclic Carbene-Mediated Microfluidic Oxidative Electrosynthesis of Amides from Aldehydes. Organic Letters, 2016, 18, 1198-1201.	2.4	76
13	Synthesis of Heterocyclic and Carbocyclic Fluoro-olefins by Ring-Closing Metathesis. Organic Letters, 2003, 5, 3403-3406.	2.4	74
14	A Microflow Electrolysis Cell for Laboratory Synthesis on the Multigram Scale. Organic Process Research and Development, 2015, 19, 1424-1427.	1.3	74
15	Câ^'H Insertion Approach to the Synthesis of endo,exo-Furofuranones:â€‰ Synthesis of (Â±)-Asarinin, (Â±)-Epimagnolin A, and (Â±)-Fargesin. Journal of Organic Chemistry, 2001, 66, 6719-6728.	1.7	66
16	A Versatile Stereoselective Synthesis of endo,exo-Furofuranones:â€‰ Application to the Enantioselective Synthesis of Furofuran Lignans. Journal of Organic Chemistry, 2004, 69, 122-129.	1.7	62
17	Total Synthesis and Preliminary Biological Evaluation ofcis-Solamin Isomers. Journal of Organic Chemistry, 2004, 69, 3368-3374.	1.7	62
18	Long-Lived Nuclear Singlet Order in Near-Equivalent ¹³C Spin Pairs. Journal of the American Chemical Society, 2012, 134, 17494-17497.	6.6	61

#	Article	IF	Citations
19	Direct Growth of Highly Organized Crystalline Carbon Nitride from Liquid-Phase Pulsed Laser Ablation. Chemistry of Materials, 2006, 18, 5058-5064.	3.2	58
20	Microwave-assisted synthesis and antimicrobial activities of flavonoid derivatives. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 518-522.	1.0	55
21	Understanding the Performance of a Microfluidic Electrolysis Cell for Routine Organic Electrosynthesis. Journal of Flow Chemistry, 2015, 5, 31-36.	1.2	54
22	Real-space imaging of macroscopic diffusion and slow flow by singlet tagging MRI. Journal of Magnetic Resonance, 2015, 252, 130-134.	1.2	53
23	N-Heterocyclic Carbene-Mediated Oxidative Electrosynthesis of Esters in a Microflow Cell. Organic Letters, 2015, 17, 3290-3293.	2.4	52
24	An Asymmetric Phase-Transfer Dihydroxylation Reaction. Angewandte Chemie - International Edition, 2002, 41, 3479-3480.	7.2	51
25	Theory of long-lived nuclear spin states in methyl groups and quantum-rotor induced polarisation. Journal of Chemical Physics, 2015, 142, 044506.	1.2	51
26	Synthesis ofcis-Solamin Using a Permanganate-Mediated Oxidative Cyclization. Organic Letters, 2002, 4, 3715-3718.	2.4	50
27	Long-lived nuclear spin states far from magnetic equivalence. Physical Chemistry Chemical Physics, 2015, 17, 5913-5922.	1.3	50
28	Solid-phase synthesis of cyclic sulfonamides employing a ring-closing metathesisâ€“cleavage strategy. Tetrahedron Letters, 2000, 41, 3681-3685.	0.7	49
29	Detection of nerve agent via perturbation of supramolecular gel formation. Chemical Communications, 2013, 49, 9119.	2.2	48
30	Structural Basis of the Greenâ€“Blue Color Switching in Proteorhodopsin as Determined by NMR Spectroscopy. Journal of the American Chemical Society, 2014, 136, 17578-17590.	6.6	48
31	Permanganate Oxidation of 1,5,9-Trienes:â€‰ Stereoselective Synthesis of Tetrahydrofuran-Containing Fragments. Journal of Organic Chemistry, 2002, 67, 8079-8085.	1.7	47
32	One-Pot Ring-Closing Metathesis-Alkene Cross Metathesis Reactions of Sulfamide-Linked Enynes. European Journal of Organic Chemistry, 2004, 2004, 800-806.	1.2	45
33	Electrosynthesis in extended channel length microfluidic electrolysis cells. Journal of Flow Chemistry, 2016, 6, 191-197.	1.2	45
34	Ring-Closing Metathesis of Heteroatom-Substituted Dienes. Heterocycles, 2006, 70, 705.	0.4	44
35	Double-Quantum 13C Nuclear Magnetic Resonance of Bathorhodopsin, the First Photointermediate in Mammalian Vision. Journal of the American Chemical Society, 2008, 130, 10490-10491.	6.6	44
36	A simple and inexpensive microfluidic electrolysis cell. Electrochimica Acta, 2011, 56, 4322-4326.	2.6	44

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37	The methoxylation of N-formylpyrrolidine in a microfluidic electrolysis cell for routine synthesis. Electrochimica Acta, 2012, 69, 197-202.	2.6	44
38	An extended channel length microflow electrolysis cell for convenient laboratory synthesis. Electrochemistry Communications, 2016, 73, 63-66.	2.3	44
39	Structure-Based Optimization of Nonquaternary Reactivators of Acetylcholinesterase Inhibited by Organophosphorus Nerve Agents. Journal of Medicinal Chemistry, 2018, 61, 7630-7639.	2.9	44
40	A Solid-Phase Route to18F-Labeled Tracers, Exemplified by the Synthesis of [18F]2-Fluoro-2-deoxy-D-glucose. Angewandte Chemie - International Edition, 2007, 46, 941-944.	7.2	41
41	Total Syntheses of (â^') Epilupinine and (â^')-Tashiromine Using Imino-Aldol Reactions. Organic Letters, 2011, 13, 3988-3991.	2.4	40
42	Electrochemical Deprotection of para-Methoxybenzyl Ethers in a Flow Electrolysis Cell. Organic Letters, 2017, 19, 2050-2053.	2.4	39
43	Accurate Measurements of13Câ^'13CJ-Couplings in the Rhodopsin Chromophore by Double-Quantum Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2006, 128, 3878-3879.	6.6	38
44	Hyperpolarized singlet NMR on a small animal imaging system. Magnetic Resonance in Medicine, 2012, 68, 1262-1265.	1.9	37
45	A voltammetric study of the 2,2,6,6-tetramethylpiperidin-1-oxyl (TEMPO) mediated oxidation of benzyl alcohol in tert-butanol/water. Electrochimica Acta, 2013, 113, 550-556.	2.6	37
46	Total Synthesis of cis-Sylvaticin. Organic Letters, 2008, 10, 2489-2492.	2.4	36
47	Oxidative Cyclization Reactions of Trienes and Dienynes: Total Synthesis of Membrarollin. Journal of Organic Chemistry, 2009, 74, 981-988.	1.7	36
48	Ring-closing metathesis: development of a cyclisationâ€“cleavage strategy for the solid-phase synthesis of cyclic sulfonamides. Organic and Biomolecular Chemistry, 2004, 2, 835-844.	1.5	35
49	Long-lived localization in magnetic resonance imaging. Journal of Magnetic Resonance, 2014, 246, 27-30.	1.2	34
50	Cubane Electrochemistry: Direct Conversion of Cubane Carboxylic Acids to Alkoxy Cubanes Using the Hoferâ€“Moest Reaction under Flow Conditions. Chemistry - A European Journal, 2020, 26, 374-378.	1.7	34
51	Total Synthesis of Annonaceous Acetogenins Belonging to the Non-Adjacent Bis-THF and Non-Adjacent THF-THP Sub-Classes. Molecules, 2010, 15, 460-501.	1.7	32
52	Analytical theory of Î³-encoded double-quantum recoupling sequences in solid-state nuclear magnetic resonance. Journal of Magnetic Resonance, 2007, 186, 65-74.	1.2	29
53	Convenient One-Pot Synthesis of Chromone Derivatives and Their Antifungal and Antibacterial Evaluation. Synthetic Communications, 2013, 43, 1549-1556.	1.1	29
54	Diastereoselective synthesis of tetrahydrofuran-containing fragments by the permanganate oxidation of 1,5,9-trienes. Chemical Communications, 2000, , 1735-1736.	2.2	28

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55	Constant-adiabaticity radiofrequency pulses for generating long-lived singlet spin states in NMR. Journal of Chemical Physics, 2019, 150, 064201.	1.2	28
56	Solid-state NMR analysis of the sodium pump Krokinobacter rhodopsin 2 and its H30A mutant. Journal of Structural Biology, 2019, 206, 55-65.	1.3	27
57	Synthesis of Petrosins C and D. Journal of Organic Chemistry, 1998, 63, 5013-5030.	1.7	26
58	The EF Loop in Green Proteorhodopsin Affects Conformation andÂPhotocycle dynamics. Biophysical Journal, 2013, 105, 385-397.	0.2	26
59	Exploring Protein Structures by DNP-Enhanced Methyl Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2019, 141, 19888-19901.	6.6	26
60	The synthesis of biologically active indolocarbazole natural products. Natural Product Reports, 2021, 38, 1794-1820.	5.2	25
61	A Synthesis of Salinomycin. Part 1. Synthesis of Key Fragments. Synlett, 1994, 1994, 415-417.	1.0	24
62	Contact-based corrosion mechanism leading to copper sulphide deposition on insulating paper used in oil-immersed electrical power equipment. Corrosion Science, 2014, 84, 172-179.	3.0	24
63	Stereoselective synthesis of cis-2,6-bis-hydroxyalkyl-tetrahydropyrans by the permanganate promoted oxidative cyclisation of 1,6-dienes. Tetrahedron Letters, 2004, 45, 7269-7271.	0.7	23
64	Natural cis-solamin is a mixture of two tetra-epimeric diastereoisomers: biosynthetic implications for Annonaceous acetogenins. Organic and Biomolecular Chemistry, 2006, 4, 1217.	1.5	23
65	Singlet-assisted diffusion-NMR (SAD-NMR): redefining the limits when measuring tortuosity in porous media. Physical Chemistry Chemical Physics, 2018, 20, 13705-13713.	1.3	23
66	Solid-phase synthesis of pyrrolidines employing a cyclisationâ€“cleavage strategy. Chemical Communications, 1999, , 1547-1548.	2.2	22
67	Total synthesis of (Â±)-epimagnolin A. Tetrahedron Letters, 2001, 42, 473-475.	0.7	21
68	A metalâ€“oxo mediated approach to the synthesis of 21,22-diepi-membrarollin. Chemical Communications, 2005, , 5636.	2.2	21
69	Synthesis of the positron-emitting radiotracer [¹⁸F]-2-fluoro-2-deoxy-<scp>d</scp>-glucose from resin-bound perfluoroalkylsulfonates. Organic and Biomolecular Chemistry, 2009, 7, 564-575.	1.5	21
70	Synthesis of an Isotopically Labeled Naphthalene Derivative That Supports a Long-Lived Nuclear Singlet State. Organic Letters, 2015, 17, 2150-2153.	2.4	21
71	A design of flow electrolysis cell for â€˜Homeâ€™ fabrication. Reaction Chemistry and Engineering, 2020, 5, 712-718.	1.9	21
72	A Nuclear Singlet Lifetime of More than One Hour in Roomâ€Temperature Solution. Angewandte Chemie, 2015, 127, 3811-3814.	1.6	20

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73	Intramolecular Câ€“H insertions adjacent to sulfur for the diastereoselective synthesis of thienofuranones. Chemical Communications, 2004, , 1772-1773.	2.2	19
74	trans-2-Tritylcyclohexanol as a Chiral Auxiliary in Permanganate-Mediated Oxidative Cyclization of 2-Methylenehept-5-enoates: Application to the Synthesis of trans-(+)-Linalool Oxide. Organic Letters, 2014, 16, 5104-5107.	2.4	19
75	Chromophore Distortions in Photointermediates of Proteorhodopsin Visualized by Dynamic Nuclear Polarization-Enhanced Solid-State NMR. Journal of the American Chemical Society, 2017, 139, 16143-16153.	6.6	19
76	A Synthesis of Salinomycin. Part 2. Synthesis of the Dispiroacetal Core Unit via Oxidative Rearrangement of an Acyl Furan. Synlett, 1994, 1994, 417-419.	1.0	18
77	Solid-phase synthesis of Î³-lactams, Î³-lactones and cyclobutane derivatives from common resin-bound intermediates. Tetrahedron Letters, 2000, 41, 3247-3251.	0.7	18
78	Enhancement of quantum rotor NMR signals by frequency-selective pulses. Journal of Magnetic Resonance, 2015, 250, 25-28.	1.2	18
79	Total Synthesis and Stereochemical Assignment of cis-Uvariamicin I and cis-Reticulatacin. Journal of Organic Chemistry, 2009, 74, 6924-6928.	1.7	17
80	Static secondary ion mass spectrometry investigation of corrosion inhibitor Irgamet Â® 39 on copper surfaces treated in power transformer insulating oil. Corrosion Science, 2015, 98, 450-456.	3.0	17
81	Versatile magnetic resonance singlet tags compatible with biological conditions. RSC Advances, 2017, 7, 34574-34578.	1.7	17
82	A simple colorimetric test for the detection of polymer-supported tertiary alcohols. Tetrahedron Letters, 2001, 42, 5773-5775.	0.7	16
83	Light Penetration and Photoisomerization in Rhodopsin studied by Numerical Simulations and Double-Quantum Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 6133-6140.	6.6	16
84	Towards an interpretation of 13C chemical shifts in bathorhodopsin, a functional intermediate of a G-protein coupled receptor. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1350-1357.	1.4	16
85	Total Synthesis of the Tetracyclic Lupin Alkaloid (+)-Allomatrine. Organic Letters, 2013, 15, 4596-4599.	2.4	16
86	A Short Diastereoselective Total Synthesis of (Â±)-Vibralactone. Organic Letters, 2016, 18, 5971-5973.	2.4	16
87	Probing the photointermediates of light-driven sodium ion pump KR2 by DNP-enhanced solid-state NMR. Science Advances, 2021, 7, .	4.7	16
88	Synthesis of endo,exo-furofuranones using a highly diastereoselective Câ€“H insertion reaction. Chemical Communications, 1998, , 1895-1896.	2.2	15
89	Palladium-catalysed nucleophilic release of allylic amines from a phenolic resin. Tetrahedron Letters, 2001, 42, 8227-8230.	0.7	15
90	Solid-phase synthesis of 4-methylene pyrrolidines and allylic amines using palladium-activated allylic linkers. Organic and Biomolecular Chemistry, 2003, 1, 2699.	1.5	15

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91	Excitation of singletâ€“triplet coherences in pairs of nearly-equivalent spins. Physical Chemistry Chemical Physics, 2019, 21, 6087-6100.	1.3	15
92	An Asymmetric Phase-Transfer Dihydroxylation Reaction. Angewandte Chemie, 2002, 114, 3629-3630.	1.6	14
93	Synthesis of the non-adjacent bis-THF core of cis-sylvaticin using a double oxidative cyclisation. Organic and Biomolecular Chemistry, 2009, 7, 1017.	1.5	14
94	Enantioselective Formal Synthesis of Eurylene: Synthesis of the cis- and trans-THF Fragments Using Oxidative Cyclization. Organic Letters, 2010, 12, 2468-2471.	2.4	14
95	Organophosphorus chemical warfare agent simulant DMMP promotes structural reinforcement of urea-based chiral supramolecular gels. RSC Advances, 2015, 5, 12287-12292.	1.7	14
96	A Resinâ€Linkerâ€Vector Approach to Radiopharmaceuticals Containing ¹⁸F: Application in the Synthesis of Oâ€(2â€[¹⁸F]â€Fluoroethyl)â€<scp>L</scp>â€tyrosine. Chemistry - A European Journal, 2013, 19, 1720-1725.	1.7	13
97	Algorithmic cooling of nuclear spins using long-lived singlet order. Journal of Chemical Physics, 2020, 152, 164201.	1.2	13
98	Synthesis and applications of tert-alkoxysiloxane linkers in solid-phase chemistry. Tetrahedron, 2007, 63, 299-311.	1.0	12
99	One-pot enyne ring-closing metathesisâ€“Dielsâ€“Alder reactions for the synthesis of polycyclic sulfamides. Tetrahedron, 2014, 70, 3700-3706.	1.0	12
100	The Desensitized Channelrhodopsinâ€2 Photointermediate Contains 13â€‰â€cis,â€‰15â€‰â€synâ€...Retinal Schiff Base. Angewandte Chemie - International Edition, 2021, 60, 16442-16447.	7.2	12
101	A biaryl cross-coupling strategy for functionalisation of benzocrown ethers. Chemical Communications, 2007, , 3565.	2.2	11
102	Heterogenisation of ketonecatalysts within mesoporous supports for asymmetric epoxidation. RSC Advances, 2013, 3, 843-850.	1.7	11
103	Field-cycling long-lived-state NMR of ¹⁵N₂ spin pairs. Molecular Physics, 2019, 117, 861-867.	0.8	11
104	Syntheses of 13C2-labelled 11Z-retinals. Tetrahedron, 2011, 67, 8404-8410.	1.0	9
105	A large geometric distortion in the first photointermediate of rhodopsin, determined by double-quantum solid-state NMR. Journal of Biomolecular NMR, 2012, 53, 247-256.	1.6	9
106	Fast destruction of singlet order in NMR experiments. Journal of Chemical Physics, 2019, 151, 234203.	1.2	9
107	The Longer Route can be Better: Electrosynthesis in Extended Path Flow Cells. Chemical Record, 2021, 21, 2472-2487.	2.9	9
108	Self-Optimization of Continuous Flow Electrochemical Synthesis Using Fourier Transform Infrared Spectroscopy and Gas Chromatography. Applied Spectroscopy, 2022, 76, 38-50.	1.2	9

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109	Buchwaldâ€“Hartwig Amination Approach for the Synthesis of Functionalized 1,2,3,4â€•Tetrahydroacridine Derivatives. European Journal of Organic Chemistry, 2014, 2014, 3468-3474.	1.2	8
110	Synthesis of isotopically labeled allâ€•trans retinals for DNPâ€enhanced solidâ€state NMR studies of retinylidene proteins. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 922-933.	0.5	8
111	A Two-Directional Synthesis of (+)-Î²-Isosparteine. Organic Letters, 2017, 19, 3502-3504.	2.4	7
112	The influence of non-ionic surfactants on electrosynthesis in extended channel, narrow gap electrolysis cells. Electrochemistry Communications, 2019, 100, 6-10.	2.3	7
113	Transition-Metal-Mediated Chemo- and Stereoselective Total Synthesis of (â^')-Galanthamine. Journal of Organic Chemistry, 2022, 87, 1325-1334.	1.7	7
114	Mechanism of Os-Catalyzed Oxidative Cyclization of 1,5-Dienes. Journal of Organic Chemistry, 2019, 84, 15173-15183.	1.7	6
115	Synthesis and derivatisation of a novel spiro[1-benzofuran-2,4â€²-piperidin]-3-one scaffold. Organic and Biomolecular Chemistry, 2005, 3, 3228.	1.5	5
116	Synthesis of carbon-13 labeled oxalates exhibiting extended nuclear singlet state lifetimes. Journal of Labelled Compounds and Radiopharmaceuticals, 2017, 60, 135-139.	0.5	5
117	Quantitative UHPSFC-MS analysis of elemental sulfur in mineral oil via derivatisation with triphenylphosphine: application to corrosive sulfur-related power transformer failure. Analyst, The, 2020, 145, 4782-4786.	1.7	5
118	Total synthesis of cis-reticulatacin-10-ones A and B: absolute stereochemical assignment. Organic and Biomolecular Chemistry, 2010, 8, 4543.	1.5	3
119	Diastereoselective Syntheses of (3R*,4R*)- and (3R*,4S*)-4-Aryl-3-methyl-4-piperidinemethanol and Fluoro Analogues. Journal of Organic Chemistry, 2013, 78, 1222-1229.	1.7	3
120	The Desensitized Channelrhodopsinâ€2 Photointermediate Contains 13â€‰â€•cis ,â€‰15â€‰â€•syn â€…Retinal Schiff Base. Angewandte Chemie, 2021, 133, 16578-16583.	1.6	1
121	Sonogashira Crossâ€Coupling Reaction of Bromocyanofluoro Pyridine Compounds: Access to 5â€•and 6â€Alkynylfluoropyridinamidoximes Scaffolds. European Journal of Organic Chemistry, 2021, 2021, 4393-4397.	1.2	1
122	Formation of seven-membered rings by RCM of vinyl bromides. Synlett, 0, 0, .	1.0	1
123	An Asymmetric Phase-Transfer Dihydroxylation Reaction.. ChemInform, 2003, 34, no.	0.1	0
124	Permanganate Oxidation of 1,5,9-Trienes: Stereoselective Synthesis of Tetrahydrofuran-Containing Fragments.. ChemInform, 2003, 34, no.	0.1	0
125	Synthesis of Heterocyclic and Carbocyclic Fluoro-olefins by Ring-Closing Metathesis.. ChemInform, 2004, 35, no.	0.1	0
126	Developments in Furan Syntheses. ChemInform, 2005, 36, no.	0.1	0

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127	Identification of elemental sulfur in mineral insulating oil - Standard corrosive test (DIN 51353) vs. Analytical approach. , 2020, , .		0
128	13 Electrochemistry in Laboratory Flow Systems. , 2022, , .		0