Richard C D Brown

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7255690/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Transition-Metal-Mediated Chemo- and Stereoselective Total Synthesis of (â^')-Galanthamine. Journal of Organic Chemistry, 2022, 87, 1325-1334.	1.7	7
2	13 Electrochemistry in Laboratory Flow Systems. , 2022, , .		0
3	Self-Optimization of Continuous Flow Electrochemical Synthesis Using Fourier Transform Infrared Spectroscopy and Gas Chromatography. Applied Spectroscopy, 2022, 76, 38-50.	1.2	9
4	Probing the photointermediates of light-driven sodium ion pump KR2 by DNP-enhanced solid-state NMR. Science Advances, 2021, 7, .	4.7	16
5	The Desensitized Channelrhodopsinâ€2 Photointermediate Contains 13 ―cis , 15 ―syn  Ret Angewandte Chemie, 2021, 133, 16578-16583.	inal Schiff 1.6	Base.
6	The Desensitized Channelrhodopsinâ€2 Photointermediate Contains 13 â€ <i>cis</i> , 15 â€ <i>syn Schiff Base. Angewandte Chemie - International Edition, 2021, 60, 16442-16447.</i>	.â€R 7.2	etinal 12
7	The Longer Route can be Better: Electrosynthesis in Extended Path Flow Cells. Chemical Record, 2021, 21, 2472-2487.	2.9	9
8	Sonogashira Cross oupling Reaction of Bromocyanofluoro Pyridine Compounds: Access to 5―and 6â€Alkynylfluoropyridinamidoximes Scaffolds. European Journal of Organic Chemistry, 2021, 2021, 4393-4397.	1.2	1
9	The synthesis of biologically active indolocarbazole natural products. Natural Product Reports, 2021, 38, 1794-1820.	5.2	25
10	Cubane Electrochemistry: Direct Conversion of Cubane Carboxylic Acids to Alkoxy Cubanes Using the Hofer–Moest Reaction under Flow Conditions. Chemistry - A European Journal, 2020, 26, 374-378.	1.7	34
11	Quantitative UHPSFC-MS analysis of elemental sulfur in mineral oil <i>via</i> derivatisation with triphenylphosphine: application to corrosive sulfur-related power transformer failure. Analyst, The, 2020, 145, 4782-4786.	1.7	5
12	A design of flow electrolysis cell for â€~Home' fabrication. Reaction Chemistry and Engineering, 2020, 5, 712-718.	1.9	21
13	Algorithmic cooling of nuclear spins using long-lived singlet order. Journal of Chemical Physics, 2020, 152, 164201.	1.2	13
14	Identification of elemental sulfur in mineral insulating oil - Standard corrosive test (DIN 51353) vs. Analytical approach. , 2020, , .		0
15	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
16	Mechanism of Os-Catalyzed Oxidative Cyclization of 1,5-Dienes. Journal of Organic Chemistry, 2019, 84, 15173-15183.	1.7	6
17	The influence of non-ionic surfactants on electrosynthesis in extended channel, narrow gap electrolysis cells. Electrochemistry Communications, 2019, 100, 6-10.	2.3	7
18	Constant-adiabaticity radiofrequency pulses for generating long-lived singlet spin states in NMR. Journal of Chemical Physics, 2019, 150, 064201.	1.2	28

#	Article	IF	CITATIONS
19	Excitation of singlet–triplet coherences in pairs of nearly-equivalent spins. Physical Chemistry Chemical Physics, 2019, 21, 6087-6100.	1.3	15
20	Fast destruction of singlet order in NMR experiments. Journal of Chemical Physics, 2019, 151, 234203.	1.2	9
21	Exploring Protein Structures by DNP-Enhanced Methyl Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2019, 141, 19888-19901.	6.6	26
22	Field-cycling long-lived-state NMR of ¹⁵ N ₂ spin pairs. Molecular Physics, 2019, 117, 861-867.	0.8	11
23	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
24	Synthesis of isotopically labeled allâ€ <i>trans</i> retinals for DNPâ€enhanced solidâ€state NMR studies of retinylidene proteins. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 922-933.	0.5	8
25	Flow Electrolysis Cells for the Synthetic Organic Chemistry Laboratory. Chemical Reviews, 2018, 118, 4573-4591.	23.0	355
26	Structure-Based Optimization of Nonquaternary Reactivators of Acetylcholinesterase Inhibited by Organophosphorus Nerve Agents. Journal of Medicinal Chemistry, 2018, 61, 7630-7639.	2.9	44
27	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
28	A Two-Directional Synthesis of (+)-β-Isosparteine. Organic Letters, 2017, 19, 3502-3504.	2.4	7
29	Electrochemical Deprotection of <i>para</i> -Methoxybenzyl Ethers in a Flow Electrolysis Cell. Organic Letters, 2017, 19, 2050-2053.	2.4	39
30	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
31	Versatile magnetic resonance singlet tags compatible with biological conditions. RSC Advances, 2017, 7, 34574-34578.	1.7	17
32	Electrosynthesis in extended channel length microfluidic electrolysis cells. Journal of Flow Chemistry, 2016, 6, 191-197.	1.2	45
33	An extended channel length microflow electrolysis cell for convenient laboratory synthesis. Electrochemistry Communications, 2016, 73, 63-66.	2.3	44
34	A Short Diastereoselective Total Synthesis of (±)-Vibralactone. Organic Letters, 2016, 18, 5971-5973.	2.4	16
35	<i>N</i> -Heterocyclic Carbene-Mediated Microfluidic Oxidative Electrosynthesis of Amides from Aldehydes. Organic Letters, 2016, 18, 1198-1201.	2.4	76
36	A Nuclear Singlet Lifetime of More than One Hour in Roomâ€Temperature Solution. Angewandte Chemie, 2015, 127, 3811-3814.	1.6	20

#	Article	IF	CITATIONS
37	Real-space imaging of macroscopic diffusion and slow flow by singlet tagging MRI. Journal of Magnetic Resonance, 2015, 252, 130-134.	1.2	53
38	Organophosphorus chemical warfare agent simulant DMMP promotes structural reinforcement of urea-based chiral supramolecular gels. RSC Advances, 2015, 5, 12287-12292.	1.7	14
39	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
40	N-Heterocyclic Carbene-Mediated Oxidative Electrosynthesis of Esters in a Microflow Cell. Organic Letters, 2015, 17, 3290-3293.	2.4	52
41	Static secondary ion mass spectrometry investigation of corrosion inhibitor Irgamet ® 39 on copper surfaces treated in power transformer insulating oil. Corrosion Science, 2015, 98, 450-456.	3.0	17
42	Long-lived nuclear spin states far from magnetic equivalence. Physical Chemistry Chemical Physics, 2015, 17, 5913-5922.	1.3	50
43	Synthesis of an Isotopically Labeled Naphthalene Derivative That Supports a Long-Lived Nuclear Singlet State. Organic Letters, 2015, 17, 2150-2153.	2.4	21
44	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
45	A Microflow Electrolysis Cell for Laboratory Synthesis on the Multigram Scale. Organic Process Research and Development, 2015, 19, 1424-1427.	1.3	74
46	Enhancement of quantum rotor NMR signals by frequency-selective pulses. Journal of Magnetic Resonance, 2015, 250, 25-28.	1.2	18
47	Understanding the Performance of a Microfluidic Electrolysis Cell for Routine Organic Electrosynthesis. Journal of Flow Chemistry, 2015, 5, 31-36.	1.2	54
48	Structural Basis of the Green–Blue Color Switching in Proteorhodopsin as Determined by NMR Spectroscopy. Journal of the American Chemical Society, 2014, 136, 17578-17590.	6.6	48
49	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
50	One-pot enyne ring-closing metathesis–Diels–Alder reactions for the synthesis of polycyclic sulfamides. Tetrahedron, 2014, 70, 3700-3706.	1.0	12
51	Buchwald–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
52	Long-lived localization in magnetic resonance imaging. Journal of Magnetic Resonance, 2014, 246, 27-30.	1.2	34
53	<i>trans</i> -2-Tritylcyclohexanol as a Chiral Auxiliary in Permanganate-Mediated Oxidative Cyclization of 2-Methylenehept-5-enoates: Application to the Synthesis of <i>trans</i> -(+)-Linalool Oxide. Organic Letters, 2014, 16, 5104-5107.	2.4	19
54	Total Synthesis of the Tetracyclic Lupin Alkaloid (+)-Allomatrine. Organic Letters, 2013, 15, 4596-4599.	2.4	16

#	Article	IF	CITATIONS
55	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
56	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
57	Detection of nerve agent via perturbation of supramolecular gel formation. Chemical Communications, 2013, 49, 9119.	2.2	48
58	Heterogenisation of ketonecatalysts within mesoporous supports for asymmetric epoxidation. RSC Advances, 2013, 3, 843-850.	1.7	11
59	Diastereoselective Syntheses of (3 <i>R*</i> ,4 <i>R*</i>)- and (3 <i>R*</i> ,4 <i>S*</i>)-4-Aryl-3-methyl-4-piperidinemethanol and Fluoro Analogues. Journal of Organic Chemistry, 2013, 78, 1222-1229.	1.7	3
60	A Resinâ€Linkerâ€Vector Approach to Radiopharmaceuticals Containing ¹⁸ F: Application in the Synthesis of <i>O</i> â€{2â€{ ¹⁸ F]â€Fluoroethyl)â€ <scp>L</scp> â€ŧyrosine. Chemistry - A European Journal, 2013, 19, 1720-1725.	1.7	13
61	The EF Loop in Green Proteorhodopsin Affects Conformation andÂPhotocycle dynamics. Biophysical Journal, 2013, 105, 385-397.	0.2	26
62	Convenient One-Pot Synthesis of Chromone Derivatives and Their Antifungal and Antibacterial Evaluation. Synthetic Communications, 2013, 43, 1549-1556.	1.1	29
63	Recycling and Imaging of Nuclear Singlet Hyperpolarization. Journal of the American Chemical Society, 2013, 135, 5084-5088.	6.6	94
64	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
65	Long-Lived Nuclear Singlet Order in Near-Equivalent ¹³ C Spin Pairs. Journal of the American Chemical Society, 2012, 134, 17494-17497.	6.6	61
66	Hyperpolarized singlet NMR on a small animal imaging system. Magnetic Resonance in Medicine, 2012, 68, 1262-1265.	1.9	37
67	TEMPOâ€Mediated Electrooxidation of Primary and Secondary Alcohols in a Microfluidic Electrolytic Cell. ChemSusChem, 2012, 5, 326-331.	3.6	76
68	The methoxylation of N-formylpyrrolidine in a microfluidic electrolysis cell for routine synthesis. Electrochimica Acta, 2012, 69, 197-202.	2.6	44
69	Total Syntheses of (â^) Epilupinine and (â^)-Tashiromine Using Imino-Aldol Reactions. Organic Letters, 2011, 13, 3988-3991.	2.4	40
70	Syntheses of 13C2-labelled 11Z-retinals. Tetrahedron, 2011, 67, 8404-8410.	1.0	9
71	A simple and inexpensive microfluidic electrolysis cell. Electrochimica Acta, 2011, 56, 4322-4326.	2.6	44
72	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

#	Article	IF	CITATIONS
73	Total synthesis of cis-reticulatacin-10-ones A and B: absolute stereochemical assignment. Organic and Biomolecular Chemistry, 2010, 8, 4543.	1.5	3
74	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
75	Tetrazine–trans-cyclooctene ligation for the rapid construction of 18F labeled probes. Chemical Communications, 2010, 46, 8043.	2.2	172
76	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
77	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
78	Oxidative Cyclization Reactions of Trienes and Dienynes: Total Synthesis of Membrarollin. Journal of Organic Chemistry, 2009, 74, 981-988.	1.7	36
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	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
81	Synthesis of the positron-emitting radiotracer [¹⁸ F]-2-fluoro-2-deoxy- <scp>d</scp> -glucose from resin-bound perfluoroalkylsulfonates. Organic and Biomolecular Chemistry, 2009, 7, 564-575.	1.5	21
82	Microwave-assisted synthesis and antimicrobial activities of flavonoid derivatives. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 518-522.	1.0	55
83	Total Synthesis of cis-Sylvaticin. Organic Letters, 2008, 10, 2489-2492.	2.4	36
84	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
85	A biaryl cross-coupling strategy for functionalisation of benzocrown ethers. Chemical Communications, 2007, , 3565.	2.2	11
86	Stereocontrolled Synthesis of (â^')-Galanthamine. Organic Letters, 2007, 9, 1867-1869.	2.4	92
87	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
88	Synthesis and applications of tert-alkoxysiloxane linkers in solid-phase chemistry. Tetrahedron, 2007, 63, 299-311.	1.0	12
89	Analytical theory of γ-encoded double-quantum recoupling sequences in solid-state nuclear magnetic resonance. Journal of Magnetic Resonance, 2007, 186, 65-74.	1.2	29
90	Direct Growth of Highly Organized Crystalline Carbon Nitride from Liquid-Phase Pulsed Laser Ablation. Chemistry of Materials, 2006, 18, 5058-5064.	3.2	58

#	Article	IF	CITATIONS
91	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
92	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
93	Ring-Closing Metathesis of Heteroatom-Substituted Dienes. Heterocycles, 2006, 70, 705.	0.4	44
94	Developments in Furan Syntheses. Angewandte Chemie - International Edition, 2005, 44, 850-852.	7.2	311
95	Developments in Furan Syntheses. ChemInform, 2005, 36, no.	0.1	Ο
96	Synthesis and derivatisation of a novel spiro[1-benzofuran-2,4′-piperidin]-3-one scaffold. Organic and Biomolecular Chemistry, 2005, 3, 3228.	1.5	5
97	A metalâ \in "oxo mediated approach to the synthesis of 21,22-diepi-membrarollin. Chemical Communications, 2005, , 5636.	2.2	21
98	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
99	Synthesis of Heterocyclic and Carbocyclic Fluoro-olefins by Ring-Closing Metathesis ChemInform, 2004, 35, no.	0.1	0
100	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
101	Ring-closing metathesis: development of a cyclisation–cleavage strategy for the solid-phase synthesis of cyclic sulfonamides. Organic and Biomolecular Chemistry, 2004, 2, 835-844.	1.5	35
102	Intramolecular C–H insertions adjacent to sulfur for the diastereoselective synthesis of thienofuranones. Chemical Communications, 2004, , 1772-1773.	2.2	19
103	A Versatile Stereoselective Synthesis of endo,exo-Furofuranones:  Application to the Enantioselective Synthesis of Furofuran Lignans. Journal of Organic Chemistry, 2004, 69, 122-129.	1.7	62
104	Total Synthesis and Preliminary Biological Evaluation ofcis-Solamin Isomers. Journal of Organic Chemistry, 2004, 69, 3368-3374.	1.7	62
105	An Asymmetric Phase-Transfer Dihydroxylation Reaction ChemInform, 2003, 34, no.	0.1	0
106	Permanganate Oxidation of 1,5,9-Trienes: Stereoselective Synthesis of Tetrahydrofuran-Containing Fragments ChemInform, 2003, 34, no.	0.1	0
107	Synthesis of Heterocyclic and Carbocyclic Fluoro-olefins by Ring-Closing Metathesis. Organic Letters, 2003, 5, 3403-3406.	2.4	74
108	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

#	Article	IF	CITATIONS
109	Permanganate Oxidation of 1,5,9-Trienes:  Stereoselective Synthesis of Tetrahydrofuran-Containing Fragments. Journal of Organic Chemistry, 2002, 67, 8079-8085.	1.7	47
110	Synthesis ofcis-Solamin Using a Permanganate-Mediated Oxidative Cyclization. Organic Letters, 2002, 4, 3715-3718.	2.4	50
111	An Asymmetric Phase-Transfer Dihydroxylation Reaction. Angewandte Chemie, 2002, 114, 3629-3630.	1.6	14
112	An Asymmetric Phase-Transfer Dihydroxylation Reaction. Angewandte Chemie - International Edition, 2002, 41, 3479-3480.	7.2	51
113	Câ~H Insertion Approach to the Synthesis of endo,exo-Furofuranones:  Synthesis of (±)-Asarinin, (±)-Epimagnolin A, and (±)-Fargesin. Journal of Organic Chemistry, 2001, 66, 6719-6728.	1.7	66
114	Palladium-catalysed nucleophilic release of allylic amines from a phenolic resin. Tetrahedron Letters, 2001, 42, 8227-8230.	0.7	15
115	Total synthesis of (±)-epimagnolin A. Tetrahedron Letters, 2001, 42, 473-475.	0.7	21
116	A simple colorimetric test for the detection of polymer-supported tertiary alcohols. Tetrahedron Letters, 2001, 42, 5773-5775.	0.7	16
117	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
118	Solid-phase synthesis of γ-lactams, γ-lactones and cyclobutane derivatives from common resin-bound intermediates. Tetrahedron Letters, 2000, 41, 3247-3251.	0.7	18
119	Solid-phase synthesis of cyclic sulfonamides employing a ring-closing metathesis–cleavage strategy. Tetrahedron Letters, 2000, 41, 3681-3685.	0.7	49
120	Diastereoselective synthesis of tetrahydrofuran-containing fragments by the permanganate oxidation of 1,5,9-trienes. Chemical Communications, 2000, , 1735-1736.	2.2	28
121	Solid-phase synthesis of pyrrolidines employing a cyclisation–cleavage strategy. Chemical Communications, 1999, , 1547-1548.	2.2	22
122	Synthesis of endo,exo-furofuranones using a highly diastereoselective C–H insertion reaction. Chemical Communications, 1998, , 1895-1896.	2.2	15
123	Synthesis of salinomycin. Journal of the Chemical Society Perkin Transactions 1, 1998, , 9-40.	0.9	92
124	Synthesis of Petrosins C and D. Journal of Organic Chemistry, 1998, 63, 5013-5030.	1.7	26
125	Recent developments in solid-phase organic synthesis. Journal of the Chemical Society Perkin Transactions 1, 1998, , 3293.	0.9	125
126	A Synthesis of Salinomycin. Part 1. Synthesis of Key Fragments. Synlett, 1994, 1994, 415-417.	1.0	24

#	Article	IF	CITATIONS
127	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
128	Formation of seven-membered rings by RCM of vinyl bromides. Synlett, 0, 0, .	1.0	1