

Tom D Sheppard

List of Publications by Year in descending order

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91
papers

3,688
citations

147566

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Developments in Amide Synthesis: Direct Amidation of Carboxylic Acids and Transamidation Reactions. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 7453-7465.	1.2	332
2	A green chemistry perspective on catalytic amide bond formation. <i>Nature Catalysis</i> , 2019, 2, 10-17.	16.1	262
3	Direct Synthesis of Amides from Carboxylic Acids and Amines Using B(OCH ₂ CF ₃) ₃ . <i>Journal of Organic Chemistry</i> , 2013, 78, 4512-4523.	1.7	215
4	Motional timescale predictions by molecular dynamics simulations: Case study using proline and hydroxyproline sidechain dynamics. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 195-215.	1.5	202
5	The application of design of experiments (DoE) reaction optimisation and solvent selection in the development of new synthetic chemistry. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2373-2384.	1.5	141
6	Borate esters: Simple catalysts for the sustainable synthesis of complex amides. <i>Science Advances</i> , 2017, 3, e1701028.	4.7	139
7	Borate esters as convenient reagents for direct amidation of carboxylic acids and transamidation of primary amides. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1320.	1.5	119
8	Metal-catalysed halogen exchange reactions of aryl halides. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1043.	1.5	116
9	Strategies for the Synthesis of 2,3-Dihydrobenzofurans. <i>Journal of Chemical Research</i> , 2011, 35, 377-385.	0.6	106
10	Prebiotic synthesis of cysteine peptides that catalyze peptide ligation in neutral water. <i>Science</i> , 2020, 370, 865-869.	6.0	105
11	Furfurylamines from biomass: transaminase catalysed upgrading of furfurals. <i>Green Chemistry</i> , 2017, 19, 397-404.	4.6	94
12	Gold- and Silver-Catalyzed Reactions of Propargylic Alcohols in the Presence of Protic Additives. <i>Chemistry - A European Journal</i> , 2012, 18, 4748-4758.	1.7	88
13	A General Procedure for the Synthesis of Enones via Gold-Catalyzed Meyer-Schuster Rearrangement of Propargylic Alcohols at Room Temperature. <i>Journal of Organic Chemistry</i> , 2011, 76, 1479-1482.	1.7	85
14	Palladium(II)-Catalysed Oxidation of Alkenes. <i>Synthesis</i> , 2015, 47, 3079-3117.	1.2	82
15	Mechanistic insights into boron-catalysed direct amidation reactions. <i>Chemical Science</i> , 2018, 9, 1058-1072.	3.7	82
16	An Alternative Approach to Aldol Reactions: Gold-Catalyzed Formation of Boron Enolates from Alkynes. <i>Journal of the American Chemical Society</i> , 2010, 132, 5968-5969.	6.6	75
17	A Series of ± 7 Nicotinic Acetylcholine Receptor Allosteric Modulators with Close Chemical Similarity but Diverse Pharmacological Properties. <i>Molecular Pharmacology</i> , 2012, 81, 710-718.	1.0	60
18	New Naphthalene-Chroman Coupling Products from the Endophytic Fungus, <i>Nodulisporium</i> sp. from <i>Erica arborea</i> . <i>European Journal of Organic Chemistry</i> , 2009, 2009, 1564-1569.	1.2	54

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19	Highly Diastereoselective Lithium Enolate Aldol Reactions of Butane-2,3-diacetal Desymmetrized Glycolic Acid and Deprotection to Enantiopure anti-2,3-Dihydroxy Esters. <i>Organic Letters</i> , 2001, 3, 3749-3752.	2.4	53
20	Regioselective Dihalohydrate Reactions of Propargylic Alcohols: Gold-Catalyzed and Noncatalyzed Reactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10747-10750.	7.2	53
21	Structurally Similar Allosteric Modulators of $\alpha 7$ Nicotinic Acetylcholine Receptors Exhibit Five Distinct Pharmacological Effects. <i>Journal of Biological Chemistry</i> , 2015, 290, 3552-3562.	1.6	53
22	Chemical cascades in water for the synthesis of functionalized aromatics from furfurals. <i>Green Chemistry</i> , 2016, 18, 1855-1858.	4.6	45
23	Preparation of enantiopure butane-2,3-diacetals of glycolic acid and alkylation reactions leading to α -hydroxyacid and amide derivatives. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 3608-3617.	1.5	43
24	Catalytic Electrophilic Halogenation of Silyl-Protected and Terminal Alkynes: Trapping Gold(I) Acetylides. a Brønsted Acid-Promoted Reaction. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3217-3224.	2.1	41
25	An integrated biorefinery concept for conversion of sugar beet pulp into value-added chemicals and pharmaceutical intermediates. <i>Faraday Discussions</i> , 2017, 202, 415-431.	1.6	41
26	Protecting-Group-Free Amidation of Amino Acids using Lewis Acid Catalysts. <i>Chemistry - A European Journal</i> , 2018, 24, 7033-7043.	1.7	41
27	Chiral Glycolate Equivalents for the Asymmetric Synthesis of α -Hydroxycarbonyl Compounds. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 1451-1472.	2.0	39
28	Diversity of Nicotinic Acetylcholine Receptor Positive Allosteric Modulators Revealed by Mutagenesis and a Revised Structural Model. <i>Molecular Pharmacology</i> , 2018, 93, 128-140.	1.0	39
29	Studies on the generation of enolate anions from butane-2,3-diacetal protected glycolic acid derivatives and subsequent highly diastereoselective coupling reactions with aldehydes and acid chlorides. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 3618-3627.	1.5	38
30	Transketolase catalysed upgrading of D -arabinose: the one-step stereoselective synthesis of D -gluco-heptulose. <i>Green Chemistry</i> , 2016, 18, 3158-3165.	4.6	35
31	Sulfur-Directed Olefin Oxidations: Observation of Divergent Reaction Mechanisms in the Palladium-Mediated Acetoxylation of Unsaturated Thioacetals. <i>Organometallics</i> , 2011, 30, 1772-1775.	1.1	33
32	The Mizoroki-Heck Reaction with Internal Olefins: Reactivities and Stereoselectivities. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 480-491.	1.3	32
33	Gold catalysed synthesis of 3-alkoxyfurans at room temperature. <i>Chemical Communications</i> , 2014, 50, 1302-1304.	2.2	31
34	$B(OCH_2)_2CF_3$ -mediated direct amidation of pharmaceutically relevant building blocks in cyclopentyl methyl ether. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10888-10894.	1.5	30
35	Direct amidation of unprotected amino acids using $B(OCH_2)_2CF_3$. <i>Chemical Communications</i> , 2016, 52, 8846-8849.	2.2	30
36	Alternative Approaches to Enolate Chemistry. <i>Synlett</i> , 2011, 2011, 1340-1344.	1.0	29

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37	Highly Regioselective Synthesis of Substituted Isoindolinones <i>via</i> Ruthenium-Catalyzed Alkyne Cyclotrimerizations. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 2353-2360.	2.1	29
38	Isocyanide based multicomponent reactions of oxazolidines and related systems. <i>Tetrahedron</i> , 2010, 66, 6496-6507.	1.0	27
39	Irreversible <i>endo</i> -selective Diels-Alder Reactions of Substituted Alkoxyfurans: A General Synthesis of <i>endo</i> -Cantharimides. <i>Chemistry - A European Journal</i> , 2015, 21, 6107-6114.	1.7	27
40	Intercepting the Gold-Catalysed Meyer-Schuster Rearrangement by Controlled Protodemetalation: A Regioselective Hydration of Propargylic Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 1519-1525.	2.1	27
41	Silver-Free Palladium-Catalyzed C(sp ³)-H Arylation of Saturated Bicyclic Amine Scaffolds. <i>Journal of Organic Chemistry</i> , 2018, 83, 2495-2503.	1.7	27
42	Catalytic direct amidations in <i>tert</i> -butyl acetate using B(OCH ₂ CF ₃) ₃ . <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 6465-6469.	1.5	26
43	Michael, Michael-aldol and Michael-Michael reactions of enolate equivalents of butane-2,3-diacetal protected glycolic acid derivatives. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 4095.	1.5	24
44	Observations on the direct amidocyclopropanation of alkenes using organozinc carbenoids. <i>Tetrahedron</i> , 2007, 63, 6462-6476.	1.0	23
45	Aminopolyols from Carbohydrates: Amination of Sugars and Sugar-Derived Tetrahydrofurans with Transaminases. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3854-3858.	7.2	23
46	One-pot, two-step transaminase and transketolase synthesis of l-gluco-heptulose from l-arabinose. <i>Enzyme and Microbial Technology</i> , 2018, 116, 16-22.	1.6	22
47	Rapid synthesis of highly functionalised α -amino amides and medium ring lactones using multicomponent reactions of amino alcohols and isocyanides. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 162-170.	1.5	20
48	The influence of allosteric modulators and transmembrane mutations on desensitisation and activation of $\alpha 7$ nicotinic acetylcholine receptors. <i>Neuropharmacology</i> , 2015, 97, 75-85.	2.0	19
49	Asymmetric Synthesis of Aminocyclopropanes and <i>N</i> -Cyclopropylamino Alcohols Through Direct Amidocyclopropanation of Alkenes Using Chiral Organozinc Carbenoids. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 1532-1548.	1.2	18
50	Rapid Assembly of Functionalised Spirocyclic Indolines by Palladium-Catalysed Dearomatising Diallylation of Indoles with Allyl Acetate. <i>Chemistry - A European Journal</i> , 2014, 20, 13375-13381.	1.7	18
51	An Accessible Method for DFT Calculation of ¹¹ B NMR Shifts of Organoboron Compounds. <i>Journal of Organic Chemistry</i> , 2018, 83, 8020-8025.	1.7	18
52	HBF ₄ -Catalysed Nucleophilic Substitutions of Propargylic Alcohols. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7544-7549.	1.2	17
53	Reporter Resins for Solid-Phase Chemistry. <i>Organic Letters</i> , 2001, 3, 507-510.	2.4	16
54	Engineering transketolase to accept both unnatural donor and acceptor substrates and produce α -hydroxyketones. <i>FEBS Journal</i> , 2020, 287, 1758-1776.	2.2	16

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55	A Rapid Route to Aminocyclopropanes via Carbamatoorganozinc Carbenoids. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10060-10063.	7.2	15
56	Sustainable Synthesis of Chiral Tetrahydrofurans through the Selective Dehydration of Pentoses. <i>Chemistry - A European Journal</i> , 2015, 21, 15947-15950.	1.7	14
57	Identification by virtual screening and functional characterisation of novel positive and negative allosteric modulators of the $\alpha 7$ nicotinic acetylcholine receptor. <i>Neuropharmacology</i> , 2018, 139, 194-204.	2.0	14
58	Prebiotic Catalytic Peptide Ligation Yields Proteinogenic Peptides by Intramolecular Amide Catalyzed Hydrolysis Facilitating Regioselective Lysine Ligation in Neutral Water. <i>Journal of the American Chemical Society</i> , 2022, 144, 10151-10155.	6.6	13
59	Development of a microwave-assisted sustainable conversion of furfural hydrazones to functionalised phthalimides in ionic liquids. <i>RSC Advances</i> , 2018, 8, 22617-22624.	1.7	12
60	Synthesis of substituted benzoxaborinin-1-ols via palladium-catalysed cyclisation of alkenyl- and alkynyl-boronic acids. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8039-8043.	1.5	11
61	Intramolecular amidocyclopropanation reactions using diethoxymethyl-functionalised lactams as organozinc carbenoid precursors. <i>Tetrahedron Letters</i> , 2009, 50, 3709-3712.	0.7	10
62	A lactate-derived chiral aldehyde for determining the enantiopurity of enantioenriched primary amines. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9050-9054.	1.5	10
63	Site selectivities in fluorination. <i>Tetrahedron Letters</i> , 2018, 59, 789-798.	0.7	9
64	Gold-Catalyzed Hydrophenoxylation of Propargylic Alcohols and Amines: Synthesis of Phenyl Enol Ethers. <i>Organic Letters</i> , 2019, 21, 4443-4447.	2.4	9
65	Functionalised tetrahydrofuran fragments from carbohydrates or sugar beet pulp biomass. <i>Green Chemistry</i> , 2019, 21, 2035-2042.	4.6	9
66	Functionalisation of terpenoids at C-4 via organopalladium dimers: cyclopropane formation during oxidation of homoallylic β -organopalladium intermediates with lead tetraacetate. <i>Tetrahedron</i> , 2007, 63, 12608-12615.	1.0	8
67	Functionalisation of ethereal-based saturated heterocycles with concomitant aerobic $C-H$ activation and $C-C$ bond formation. <i>Chemical Science</i> , 2022, 13, 8626-8633.	3.7	8
68	Development and Application of Synthetic Affinity Ligands for the Purification of Ferritin-Based Influenza Antigens. <i>Bioconjugate Chemistry</i> , 2017, 28, 1931-1943.	1.8	7
69	Gold-Catalyzed Hydroamination of Propargylic Alcohols: Controlling Divergent Catalytic Reaction Pathways To Access 1,3-Amino Alcohols, 3-Hydroxyketones, or 3-Aminoketones. <i>Journal of Organic Chemistry</i> , 2019, 84, 11391-11406.	1.7	7
70	Dihalohydration of Alkynols: A Versatile Approach to Diverse Halogenated Molecules. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4018-4028.	1.2	6
71	An expedient synthesis of orthogonally protected lysinoalanine from Alloc-protected Garner's aldehyde. <i>Tetrahedron Letters</i> , 2010, 51, 6381-6383.	0.7	5
72	Tuning Reactivity in Pd-Catalysed $C(sp^3)-H$ Arylations via Directing Group Modifications and Solvent Selection. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 5105-5115.	2.1	5

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73	A Convenient Synthesis of Tri- and Tetramethylbenzaldehydes from Readily Available Phenols. <i>Synlett</i> , 2014, 25, 381-384.	1.0	4
74	The selective conversion of <i>d</i> -limonene to <i>p</i> , <i>l</i> -dimethylstyrene. <i>RSC Advances</i> , 2014, 4, 61652-61655.	1.7	4
75	Asymmetric Synthesis of Secondary Alcohols and 1,2-Disubstituted Epoxides via Organocatalytic Sulfenylation. <i>Synlett</i> , 2015, 27, 33-36.	1.0	4
76	Complexity-generating hydration reactions via gold-catalyzed addition of boronic acids to alkynes. <i>Pure and Applied Chemistry</i> , 2012, 84, 2431-2441.	0.9	3
77	Regioselective Dehydration of Sugar Thioacetals under Mild Conditions. <i>Organic Letters</i> , 2021, 23, 2488-2492.	2.4	3
78	Direct Conversion of Hydrazones to Amines using Transaminases. <i>ChemCatChem</i> , 2021, 13, 4520-4523.	1.8	3
79	Tertiary Alkylative Suzuki-Miyaura Couplings. <i>Synthesis</i> , 2022, 54, 2340-2349.	1.2	3
80	Mechanoenzymatic Reactions with Whole Cell Transaminases: Shaken, not Stirred. <i>Green Chemistry</i> , 0, , ,	4.6	3
81	Observations on the Reaction of N-Alkyloxazolidines, Isocyanides and Carboxylic Acids: A Novel Three-Component Reaction Leading to N-Acyloxylethylamino Acid Amides. <i>Synlett</i> , 2006, 2006, 2281-2283.	1.0	2
82	Aminopolyols from Carbohydrates: Amination of Sugars and Sugar-Derived Tetrahydrofurans with Transaminases. <i>Angewandte Chemie</i> , 2019, 131, 3894-3898.	1.6	2
83	Observations on the Synthesis and Carbocyclisation Reactions of 6-Oxohepta-2,3-dienoates. <i>Synlett</i> , 2008, 2008, 2097-2100.	1.0	1
84	Data on a thermostable enzymatic one-pot reaction for the production of a high-value compound from <i>l</i> -arabinose. <i>Data in Brief</i> , 2018, 19, 1341-1354.	0.5	1
85	Hybrid Reaction Systems for the Synthesis of Alkylated Compounds Based upon Cu-Catalyzed Coupling of Radicals and Organometallic Species. <i>Chemical Record</i> , 2020, 20, 403-412.	2.9	1
86	Preparation of Enantiopure Butane-2,3-diacetals of Glycolic Acid and Alkylation Reactions Leading to α -Hydroxyacid and Amide Derivatives.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
87	Studies on the Generation of Enolate Anions from Butane-2,3-diacetal Protected Glycolic Acid Derivatives and Subsequent Highly Diastereoselective Coupling Reactions with Aldehydes and Acid Chlorides.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
88	Synthesis of a Ceramide Sphingolipid as a Potential Sex Pheromone of the Hair Crab <i>Erimacrus isenbeckii</i> Using Butane-2,3-diacetal Desymmetrised Glycolic Acid Building Blocks. <i>Synlett</i> , 2005, 2005, 481-484.	1.0	0
89	Synthesis of Enantiopure Aminocyclopropanes by Diastereoselective Addition of a Chiral Amino Substituted Organozinc Carbenoid to Alkenes. <i>Synthesis</i> , 2005, 2005, 3186-3188.	1.2	0
90	Highlights from the 47th EUCHEM conference on stereochemistry, BÄ¼rgenstock, Switzerland, May 2012. <i>Chemical Communications</i> , 2012, 48, 11597.	2.2	0

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91	Synthesis of Boronocysteine. Synlett, 2018, 29, 314-317.	1.0	0