

Martin D Smith

List of Publications by Year in descending order

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94
papers

4,872
citations

71102

41
h-index

95266

68
g-index

121
all docs

121
docs citations

121
times ranked

5201
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting C-reactive protein for the treatment of cardiovascular disease. <i>Nature</i> , 2006, 440, 1217-1221.	27.8	621
2	Globalization of national surgical, obstetric and anesthesia plans: the critical link between health policy and action in global surgery. <i>Globalization and Health</i> , 2020, 16, 1.	4.9	431
3	Catalytic enantioselective synthesis of atropisomeric biaryls by a cation-directed O-alkylation. <i>Nature Chemistry</i> , 2017, 9, 558-562.	13.6	200
4	Anion Recognition in Water by Charge-Neutral Halogen and Chalcogen Bonding Foldamer Receptors. <i>Journal of the American Chemical Society</i> , 2019, 141, 4119-4129.	13.7	174
5	Penetrating Cardiac Injuries: Recent Experience in South Africa. <i>World Journal of Surgery</i> , 2006, 30, 1258-1264.	1.6	141
6	Catalytic Enantioselective Synthesis of Atropisomeric Biaryls: A Cation-Directed Nucleophilic Aromatic Substitution Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12822-12826.	13.8	130
7	Inhibition of UDP-Gal Mutase and Mycobacterial Galactan Biosynthesis by Pyrrolidine Analogues of Galactofuranose. <i>Tetrahedron Letters</i> , 1997, 38, 6733-6736.	1.4	112
8	Can a C-H...O Interaction Be a Determinant of Conformation?. <i>Journal of the American Chemical Society</i> , 2012, 134, 12064-12071.	13.7	110
9	A Route to the Thapsigargin from (S)-Carvone Providing a Substrate-Controlled Total Synthesis of Trilobolide, Nortrilobolide, and Thapsivillosin F. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5996-6000.	13.8	103
10	Glycosylation Catalyzed by a Chiral Brønsted Acid. <i>Organic Letters</i> , 2010, 12, 1452-1455.	4.6	98
11	Catalytic enantioselective synthesis of indanes by a cation-directed 5-endo-trig cyclization. <i>Nature Chemistry</i> , 2015, 7, 171-177.	13.6	87
12	Total Synthesis of Five Thapsigargin: Guaianolide Natural Products Exhibiting Sub-Nanomolar SERCA Inhibition. <i>Chemistry - A European Journal</i> , 2007, 13, 5688-5712.	3.3	85
13	Plagiarizing Proteins: Enhancing Efficiency in Asymmetric Hydrogen Bonding Catalysis through Positive Cooperativity. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7391-7394.	13.8	84
14	Visible Light Photocatalysis of 6π Heterocyclization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9468-9472.	13.8	79
15	Catalytic Asymmetric 6π Electrocyclization: Enantioselective Synthesis of Functionalized Indolines. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9979-9982.	13.8	78
16	An octameric carbopeptoid; secondary structure in octameric and tetrameric 5-aminomethyl-tetrahydrofuran-2-carboxylates. <i>Tetrahedron Letters</i> , 1999, 40, 2199-2202.	1.4	74
17	Synthesis of the thapsigargin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12073-12078.	7.1	73
18	Asymmetric electrocyclic reactions. <i>Chemical Society Reviews</i> , 2011, 40, 4217.	38.1	72

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19	Total Synthesis of Thapsigargin, a Potent SERCA Pump Inhibitor. <i>Organic Letters</i> , 2007, 9, 663-666.	4.6	66
20	Secondary structure in oligomers of carbohydrate amino acids. <i>Chemical Communications</i> , 1998, , 2041-2042.	4.1	65
21	Cytokines as Biomarkers of Pancreatic Ductal Adenocarcinoma: A Systematic Review. <i>PLoS ONE</i> , 2016, 11, e0154016.	2.5	65
22	Designing secondary structures: 5-azidomethyl tetrahydrofuran-2-carboxylates as carbohydrate-derived dipeptide isosteres. <i>Journal of Peptide Science</i> , 1999, 5, 425-441.	1.4	64
23	Neutral iodotriazole foldamers as tetradentate halogen bonding anion receptors. <i>Chemical Communications</i> , 2017, 53, 2483-2486.	4.1	63
24	Direct sulfonylation of anilines mediated by visible light. <i>Chemical Science</i> , 2018, 9, 629-633.	7.4	61
25	A Cascade Strategy Enables a Total Synthesis of (±)-Morphine. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14306-14309.	13.8	59
26	From sequencamers to foldamers? Tetrameric furanose carbopeptoids from cis- and trans-5-aminomethyl-tetrahydrofuran-2-carboxylates. <i>Tetrahedron Letters</i> , 1999, 40, 2195-2198.	1.4	58
27	Cation-directed enantioselective synthesis of quaternary-substituted indolenines. <i>Chemical Science</i> , 2013, 4, 2907.	7.4	58
28	Catalytic Enantioselective Synthesis of Atropisomeric Biaryls: A Cation-Directed Nucleophilic Aromatic Substitution Reaction. <i>Angewandte Chemie</i> , 2014, 126, 13036-13040.	2.0	57
29	Trapping of palindromic ligands within native transthyretin prevents amyloid formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20483-20488.	7.1	55
30	Helix-Forming Carbohydrate Amino Acids. <i>Journal of Organic Chemistry</i> , 2005, 70, 2082-2090.	3.2	54
31	An approach to combinatorial library generation of galactofuranose mimics as potential inhibitors of mycobacterial cell wall biosynthesis: Synthesis of a peptidomimetic of uridine 5'-diphosphogalactofuranose (UDP-Galf). <i>Tetrahedron Letters</i> , 1999, 40, 8689-8692.	1.4	50
32	Total Synthesis of Antascomicin B. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2732-2737.	13.8	49
33	Parallel sheet structure in cyclopropane β^3 -peptides stabilized by C-H \cdots O hydrogen bonds. <i>Chemical Communications</i> , 2006, , 5006-5008.	4.1	49
34	Hydrogen-Bond-Enabled Dynamic Kinetic Resolution of Axially Chiral Amides Mediated by a Chiral Counterion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2795-2798.	13.8	48
35	Synthesis of oligomers of tetrahydrofuran amino acids: furanose carbopeptoids. <i>Chemical Communications</i> , 1998, , 2039-2040.	4.1	46
36	Synthesis of all diastereomeric methyl 2,5-anhydro-3-deoxy-hexonates: precursors to C-2-deoxynucleosides and THF-templated β^3 - and β^1 -amino acids. <i>Tetrahedron Letters</i> , 2003, 44, 5853-5857.	1.4	46

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37	Complex tetrahydrofurans from carbohydrate lactones: THF amino acids as building blocks for unnatural biopolymers. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 1982-1998.	1.3	45
38	A Nonpeptidic Reverse Turn that Promotes Parallel Sheet Structure Stabilized by C-H...O Hydrogen Bonds in a Cyclopropane β -Peptide. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7099-7102.	13.8	45
39	A halogen-bonding foldamer molecular film for selective reagentless anion sensing in water. <i>Chemical Communications</i> , 2019, 55, 4849-4852.	4.1	45
40	Catalytic enantioselective electrocyclic cascades. <i>Chemical Science</i> , 2012, 3, 537-540.	7.4	43
41	Cation-Controlled Enantioselective and Diastereoselective Synthesis of Indolines: An Autoinductive Phase-Transfer Initiated 5-endo-trig Process. <i>Journal of the American Chemical Society</i> , 2015, 137, 13414-13424.	13.7	43
42	Bend ribbon-forming tetrahydrofuran amino acids This is one of a number of contributions from the current members of the Dyson Perrins Laboratory to mark the end of almost 90 years of organic chemistry research in that building, as all its current academic staff move across South Parks Road to a new purpose-built laboratory.. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3647.	2.8	39
43	A solid phase approach to oligomers of carbohydrate amino-acids: Secondary structure in a trimeric furanose carbopeptoid. <i>Tetrahedron Letters</i> , 1998, 39, 9293-9296.	1.4	36
44	Absence of secondary structure in a carbopeptoid tetramer of a trans-5-aminomethyl-tetrahydrofuran-2-carboxylate. <i>Tetrahedron Letters</i> , 1999, 40, 2191-2194.	1.4	36
45	Tetrahydrofuran amino acids "versatile building blocks for unnatural biopolymers: lack of secondary structure in oligomeric carbopeptoids derived from a D-galacto-5-(aminomethyl) tetrahydrofuran-2-carboxylic acid. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 3655-3665.	1.3	36
46	Mimics of l-rhamnose: Anomeric spirohydantoin and diketopiperazines-approaches to novel N-linked glycopeptides of rhamnofuranose. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 387-390.	1.8	34
47	Mimics of l-rhamnose: Analogues of rhamnopyranose containing a constituent β -amino acid at the anomeric position. A rhamnopyranose analogue of hydantocidin. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 391-394.	1.8	34
48	Delivery of hepato-pancreato-biliary surgery during the COVID-19 pandemic: an European-African Hepato-Pancreato-Biliary Association (E-AHPBA) cross-sectional survey. <i>Hpb</i> , 2020, 22, 1128-1134.	0.3	34
49	3-Azidotetrahydrofuran-2-carboxylates: monomers for five-ring templated β^2 -amino acid foldamers?. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 1855-1859.	1.8	33
50	Catalytic Enantioselective Synthesis of C_1 - and C_2 -Symmetric Spiroindanones through Counterion-Directed Enolate Acylation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13180-13183.	13.8	32
51	Discovery of a Highly Selective Cell-Active Inhibitor of the Histone Lysine Demethylases KDM2/7. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15555-15559.	13.8	32
52	Bend-ribbon forming β^3 -peptides. <i>Chemical Communications</i> , 2007, , 2814-2816.	4.1	31
53	C-H Cyanation of β -Ring-Containing Heteroaromatics. <i>Chemistry - A European Journal</i> , 2017, 23, 14733-14737.	3.3	31
54	Visible-Light-Mediated Heterocycle Functionalization via Geometrically Interrupted [2+2] Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23020-23024.	13.8	29

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55	Total Synthesis of Two Novel Subpicomolar Sarco/Endoplasmatic Reticulum Ca ²⁺ -ATPase Inhibitors Designed by an Analysis of the Binding Site of Thapsigargin. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 7005-7011.	6.4	27
56	Practical and Scalable Kinetic Resolution of BINOLs Mediated by a Chiral Counterion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4596-4600.	13.8	26
57	A Cascade Strategy Enables a Total Synthesis of (±)-Gephyrotoxin. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13826-13829.	13.8	24
58	A Cascade Strategy Enables a Total Synthesis of (±)-Morphine. <i>Angewandte Chemie</i> , 2016, 128, 14518-14521.	2.0	22
59	Inflammatory cytokines and combined biomarker panels in pancreatic ductal adenocarcinoma: Enhancing diagnostic accuracy. <i>PLoS ONE</i> , 2019, 14, e0221169.	2.5	20
60	EMERGENCY THORACIC SURGERY FOR PENETRATING, NON-MEDIASTINAL TRAUMA. <i>ANZ Journal of Surgery</i> , 2007, 77, 142-145.	0.7	19
61	Hydrogen-Bond-Enabled Dynamic Kinetic Resolution of Axially Chiral Amides Mediated by a Chiral Counterion. <i>Angewandte Chemie</i> , 2019, 131, 2821-2824.	2.0	19
62	Phase-Transfer-Catalysed Synthesis of Pyrroloindolines and Pyridoindolines by a Hydrogen-Bond-Assisted Isocyanide Cyclization Cascade. <i>Chemistry - A European Journal</i> , 2014, 20, 3005-3009.	3.3	18
63	A cation-directed two-component cascade approach to enantioenriched pyrroloindolines. <i>Chemical Communications</i> , 2014, 50, 13585-13588.	4.1	18
64	Torsional and Electronic Factors Control the C-H...O Interaction. <i>Chemistry - A European Journal</i> , 2016, 22, 16513-16521.	3.3	18
65	Carbopeptoids: peptides and diketopiperazines incorporating the anomeric centre of mannopyranose. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 807-813.	1.3	17
66	Visible Light Photocatalysis of 6- <i>H</i> Heterocyclization. <i>Angewandte Chemie</i> , 2017, 129, 9596-9600.	2.0	17
67	Enantioselective one-pot synthesis of dihydroquinolones via BINOL-derived Lewis acid catalysis. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5094-5097.	2.8	16
68	Inflammatory cytokines and angiogenic factors as potential biomarkers in South African pancreatic ductal adenocarcinoma patients: A preliminary report. <i>Pancreatology</i> , 2017, 17, 438-444.	1.1	14
69	Setting the research and implementation agenda for equitable access to surgical care in South Africa. <i>BMJ Global Health</i> , 2017, 2, e000170.	4.7	13
70	Tetrahydrofuran β -Azido Esters: Precursors of Anomeric β -Amino Acid Monomers via Radical Bromination. <i>Synlett</i> , 1999, 1999, 1151-1153.	1.8	12
71	Adaptive Immune Cell Dysregulation and Role in Acute Pancreatitis Disease Progression and Treatment. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2018, 66, 199-209.	2.3	12
72	A Counterion-Directed Approach to the Diels-Alder Paradigm: Cascade Synthesis of Tricyclic Fused Cyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13813-13817.	13.8	9

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73	SWATH-MS based proteomic profiling of pancreatic ductal adenocarcinoma tumours reveals the interplay between the extracellular matrix and related intracellular pathways. PLoS ONE, 2020, 15, e0240453.	2.5	9
74	Targeting Growth Factor Signaling Pathways in Pancreatic Cancer: Towards Inhibiting Chemoresistance. Frontiers in Oncology, 2021, 11, 683788.	2.8	8
75	Serum Metabolomic and Lipoprotein Profiling of Pancreatic Ductal Adenocarcinoma Patients of African Ancestry. Metabolites, 2021, 11, 663.	2.9	8
76	Definitions of Computer-Assisted Surgery and Intervention, Image-Guided Surgery and Intervention, Hybrid Operating Room, and Guidance Systems. Annals of Surgery Open, 2020, 1, e021.	1.4	8
77	Favorskii rearrangement of a highly functionalized meso-dihaloketone. Tetrahedron: Asymmetry, 2009, 20, 961-969.	1.8	7
78	Enantioselective Synthesis of 4- and 6-Azaindolines by a Cation-Directed Cyclization. Organic Letters, 2016, 18, 5372-5375.	4.6	7
79	Catalytic Enantioselective Synthesis of <i>C</i> ₁ - and <i>C</i> ₂ -Symmetric Spiroindanones through Counterion-Directed Enolate <i>C</i> -Acylation. Angewandte Chemie, 2016, 128, 13374-13377.	2.0	7
80	Immunotherapeutic strategies in pancreatic ductal adenocarcinoma (PDAC): current perspectives and future prospects. Molecular Biology Reports, 2020, 47, 6269-6280.	2.3	7
81	Cation-Directed Enantioselective N-Functionalization of Pyrroles. Synlett, 2015, 27, 6-10.	1.8	6
82	Practical and Scalable Kinetic Resolution of BINOLs Mediated by a Chiral Counterion. Angewandte Chemie, 2019, 131, 4644-4648.	2.0	6
83	Increased expression of plakoglobin is associated with upregulated MAPK and PI3K/AKT signalling pathways in early resectable pancreatic ductal adenocarcinoma. Oncology Letters, 2020, 19, 4133-4141.	1.8	6
84	Remote Stereocontrol Transmitted through Helicity. Angewandte Chemie - International Edition, 2014, 53, 3315-3317.	13.8	5
85	Visible-Light-Mediated Heterocycle Functionalization via Geometrically Interrupted [2+2] Cycloaddition. Angewandte Chemie, 2020, 132, 23220-23224.	2.0	5
86	Pancreatic ductal adenocarcinoma: Prognostic indicators of advanced disease. PLoS ONE, 2022, 17, e0262439.	2.5	4
87	A Counterion-Directed Approach to the Diels-Alder Paradigm: Cascade Synthesis of Tricyclic Fused Cyclopropanes. Angewandte Chemie, 2016, 128, 14017-14021.	2.0	3
88	Chemokine receptor 8 expression may be linked to disease severity and elevated interleukin 6 secretion in acute pancreatitis. World Journal of Gastrointestinal Pathophysiology, 2021, 12, 115-133.	1.0	3
89	Bifunctional crosslinking ligands for transthyretin. Open Biology, 2015, 5, 150105.	3.6	2
90	Laser-based joining for the packaging of miniature optoelectronic devices. Proceedings of SPIE, 2010, , .	0.8	1

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91	Low coherence tandem interferometry for the measurement of differential length sensing at two widely separated locations. Proceedings of SPIE, 2013, , .	0.8	0
92	Differential length measurement using low coherence coupled tandem interferometry. , 2013, , .		0
93	Discovery of a Highly Selective Cellâ€Active Inhibitor of the Histone Lysine Demethylases KDM2/7. Angewandte Chemie, 2017, 129, 15761-15765.	2.0	0
94	Perspectives of South African general surgeons regarding their postgraduate training. South African Journal of Surgery, 2014, 52, 66.	0.2	0