

Regan J Thomson

List of Publications by Year in descending order

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83
papers

4,122
citations

101543

36
h-index

133252

59
g-index

106
all docs

106
docs citations

106
times ranked

4902
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational framework to explore large-scale biosynthetic diversity. <i>Nature Chemical Biology</i> , 2020, 16, 60-68.	8.0	569
2	Enantioselective Synthesis of Biphenols from 1,4-Diketones by Traceless Central-to-Axial Chirality Exchange. <i>Journal of the American Chemical Society</i> , 2011, 133, 18-20.	13.7	175
3	Structure, Chemical Synthesis, and Biosynthesis of Prodiginine Natural Products. <i>Chemical Reviews</i> , 2016, 116, 7818-7853.	47.7	126
4	Oxidative Coupling of Enolates, Enol Silanes, and Enamines: Methods and Natural Product Synthesis. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4881-4896.	2.4	124
5	Metabologenomics: Correlation of Microbial Gene Clusters with Metabolites Drives Discovery of a Nonribosomal Peptide with an Unusual Amino Acid Monomer. <i>ACS Central Science</i> , 2016, 2, 99-108.	11.3	99
6	Enantioselective Synthesis of Allenes by Catalytic Traceless Petasis Reactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 1998-2005.	13.7	99
7	A Direct Synthesis of Allenes by a Traceless Petasis Reaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 5782-5785.	13.7	96
8	Highly Oxygenated Multifunctional Compounds in α -Pinene Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 5932-5940.	10.0	93
9	Large-Scale Metabolomics Reveals a Complex Response of <i>Aspergillus nidulans</i> to Epigenetic Perturbation. <i>ACS Chemical Biology</i> , 2015, 10, 1535-1541.	3.4	90
10	Development of a Merged Conjugate Addition/Oxidative Coupling Sequence. Application to the Enantioselective Total Synthesis of Metacycloprodigiosin and Prodigiosin R1. <i>Journal of the American Chemical Society</i> , 2009, 131, 14579-14583.	13.7	82
11	The Total Synthesis of <i>Isodon</i> Diterpenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10588-10599.	13.8	82
12	Ni(II) Tol-BINAP-Catalyzed Enantioselective Orthoester Alkylations of N-Acylthiazolidinethiones. <i>Journal of the American Chemical Society</i> , 2005, 127, 10506-10507.	13.7	81
13	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021, 17, 363-368.	8.0	81
14	<i>In Vitro</i> Reconstruction of Nonribosomal Peptide Biosynthesis Directly from DNA Using Cell-Free Protein Synthesis. <i>ACS Synthetic Biology</i> , 2017, 6, 39-44.	3.8	80
15	Enantioselective Total Synthesis of (α)-Maoecrystal V. <i>Journal of the American Chemical Society</i> , 2014, 136, 17750-17756.	13.7	78
16	Stereoselective Synthesis of Dienes from <i>N</i> -Allylhydrazones. <i>Organic Letters</i> , 2009, 11, 465-468.	4.6	75
17	Oxidative Carbon-Carbon Bond Formation via Silyl Bis-enol Ethers: Controlled Cross-Coupling for the Synthesis of Quaternary Centers. <i>Organic Letters</i> , 2007, 9, 4667-4669.	4.6	73
18	Ni(II) Tol-BINAP-Catalyzed Enantioselective Michael Reactions of α -Ketoesters and Unsaturated N-Acylthiazolidinethiones. <i>Journal of the American Chemical Society</i> , 2005, 127, 10816-10817.	13.7	72

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19	Total Synthesis of the <i>Isodon</i> Diterpene Sculponeatin. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2988-2991.	13.8	67
20	Diastereoselective Oxidative Carbon-Carbon Bond Formation via Silyl Bis-enol Ethers. <i>Organic Letters</i> , 2008, 10, 5621-5624.	4.6	62
21	Enantioselective Total Synthesis and Studies into the Configurational Stability of Bismurrayaquinone. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9931-9934.	13.8	62
22	Natural products from thioester reductase containing biosynthetic pathways. <i>Natural Product Reports</i> , 2018, 35, 847-878.	10.3	60
23	A Strategy for the Convergent and Stereoselective Assembly of Polycyclic Molecules. <i>Journal of the American Chemical Society</i> , 2018, 140, 1956-1965.	13.7	58
24	Enantioselective Total Synthesis and Confirmation of the Absolute and Relative Stereochemistry of Streptorubin B. <i>Journal of the American Chemical Society</i> , 2011, 133, 1799-1804.	13.7	57
25	New Aspercryptins, Lipopeptide Natural Products, Revealed by HDAC Inhibition in <i>Aspergillus nidulans</i> . <i>ACS Chemical Biology</i> , 2016, 11, 2117-2123.	3.4	56
26	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	53
27	Total Synthesis of Sordaricin. <i>Journal of Organic Chemistry</i> , 2005, 70, 1654-1670.	3.2	52
28	Accurate Line Shapes from Sub-1 cm ⁻¹ Resolution Sum Frequency Generation Vibrational Spectroscopy of β -Pinene at Room Temperature. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1292-1302.	2.5	49
29	Uptake of Epoxydiol Isomers Accounts for Half of the Particle-Phase Material Produced from Isoprene Photooxidation via the HO ₂ Pathway. <i>Environmental Science & Technology</i> , 2015, 49, 250-258.	10.0	48
30	A Hypervalent Iodide-Initiated Fragment Coupling Cascade of <i>N</i> -Allylhydrazones. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4437-4440.	13.8	47
31	A Synthesis of the Carbocyclic Core of Maoecrystal V. <i>Organic Letters</i> , 2010, 12, 3010-3013.	4.6	46
32	Triflimide-catalysed sigmatropic rearrangement of <i>N</i> -allylhydrazones as an example of a traceless bond construction. <i>Nature Chemistry</i> , 2010, 2, 294-297.	13.6	44
33	Elucidating the Rimosamide-Detoxin Natural Product Families and Their Biosynthesis Using Metabolite/Gene Cluster Correlations. <i>ACS Chemical Biology</i> , 2016, 11, 3452-3460.	3.4	42
34	Organic Constituents on the Surfaces of Aerosol Particles from Southern Finland, Amazonia, and California Studied by Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8271-8290.	2.5	41
35	Stereocontrolled Syntheses of Tetralone- and Naphthyl-type Lignans by a One-Pot Oxidative [3,3]-Rearrangement/Friedel-Crafts Arylation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1395-1398.	13.8	40
36	Cloud Activation Potentials for Atmospheric β -Pinene and β -Caryophyllene Ozonolysis Products. <i>ACS Central Science</i> , 2017, 3, 715-725.	11.3	40

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37	Following Particle-Particle Mixing in Atmospheric Secondary Organic Aerosols by Using Isotopically Labeled Terpenes. <i>Chem</i> , 2018, 4, 318-333.	11.7	40
38	Total Synthesis of Sordaricin. <i>Organic Letters</i> , 2003, 5, 1321-1324.	4.6	38
39	Tandem Carbon-Carbon and Carbon-Chlorine Bond Formation by Cu(II) Chloride-Promoted [3,3] Sigmatropic Rearrangement of <i>N</i> -Allylhydrazones. <i>Journal of the American Chemical Society</i> , 2008, 130, 1148-1149.	13.7	38
40	Discovery of the Tyrobetaine Natural Products and Their Biosynthetic Gene Cluster <i>via</i> Metabologenomics. <i>ACS Chemical Biology</i> , 2018, 13, 1029-1037.	3.4	38
41	The effect of hydroxyl functional groups and molar mass on the viscosity of non-crystalline organic and organic-water particles. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8509-8524.	4.9	35
42	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. <i>ACS Central Science</i> , 2018, 4, 1727-1741.	11.3	32
43	Gobichelin A and B: mixed-ligand siderophores discovered using proteomics. <i>MedChemComm</i> , 2013, 4, 233-238.	3.4	30
44	Vibrational Mode Assignment of \pm -Pinene by Isotope Editing: One Down, Seventy-One To Go. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2684-2690.	2.5	29
45	Sum Frequency Generation Spectroscopy and Molecular Dynamics Simulations Reveal a Rotationally Fluid Adsorption State of \pm -Pinene on Silica. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12578-12589.	3.1	29
46	An Oxidative [2,3]-Sigmatropic Rearrangement of Allylic Hydrazides. <i>Journal of the American Chemical Society</i> , 2011, 133, 14252-14255.	13.7	28
47	Proteomics Guided Discovery of Flavopeptins: Anti-proliferative Aldehydes Synthesized by a Reductase Domain-Containing Non-ribosomal Peptide Synthetase. <i>Journal of the American Chemical Society</i> , 2013, 135, 10449-10456.	13.7	28
48	Enantioselective Total Synthesis of the Osteoclastogenesis Inhibitor (+)-Symbioimine. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3104-3106.	13.8	27
49	On Surface Order and Disorder of \pm -Pinene-Derived Secondary Organic Material. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4609-4617.	2.5	27
50	Evaluation of <i>east-to-west</i> TM ether-forming strategies for the total synthesis of maoecrystal V. <i>Tetrahedron Letters</i> , 2013, 54, 635-637.	1.4	26
51	Investigations into Apopinene as a Biorenewable Monomer for Ring-Opening Metathesis Polymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1278-1281.	6.7	26
52	SAMDI Mass Spectrometry-Enabled High-Throughput Optimization of a Traceless Petasis Reaction. <i>ACS Combinatorial Science</i> , 2015, 17, 658-662.	3.8	26
53	Total Synthesis of the <i>Galbulimima</i> Alkaloid ($\hat{\alpha}$) $\hat{\alpha}$ -GB17. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2481-2484.	13.8	24
54	Total Synthesis of the <i>Galbulimima</i> Alkaloids Himandravine and GB17 Using Biomimetic Diels-Alder Reactions of Double Diene Precursors. <i>Journal of the American Chemical Society</i> , 2015, 137, 11197-11204.	13.7	24

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55	Total Synthesis of Tambromycin Enabled by Indole C-H Functionalization. <i>Organic Letters</i> , 2018, 20, 2369-2373.	4.6	24
56	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	22
57	Asymmetric Traceless Petasis Borono-Mannich Reactions of Enals: Reductive Transposition of Allylic Diazenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16631-16635.	13.8	21
58	Mechanism of triflimide-catalyzed [3,3]-sigmatropic rearrangements of N-allylhydrazones—predictions and experimental validation. <i>Chemical Science</i> , 2013, 4, 3997.	7.4	20
59	Triflimide-catalyzed allylsilane annulations of benzylic alcohols for the divergent synthesis of indanes and tetralins. <i>Chemical Science</i> , 2017, 8, 2156-2160.	7.4	20
60	Beyond Local Group Modes in Vibrational Sum Frequency Generation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3407-3414.	2.5	18
61	Assessment of DFT for Computing Sum Frequency Generation Spectra of an Epoxydiol and a Deuterated Isotopologue at Fused Silica/Vapor Interfaces. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1919-1927.	2.6	17
62	Oxidative Carbon-Carbon Bond Formation via Allyldimethylsilyl Enol Ethers. <i>Organic Letters</i> , 2009, 11, 5550-5553.	4.6	15
63	Elimination of Butylcycloheptylprodigiosin as a Known Natural Product Inspired by an Evolutionary Hypothesis for Cyclic Prodigiosin Biosynthesis. <i>Journal of Natural Products</i> , 2013, 76, 1937-1945.	3.0	15
64	Total synthesis of propolisbenzofuran B. <i>Chemical Science</i> , 2014, 5, 1794-1798.	7.4	15
65	Unanticipated Stickiness of \pm -Pinene. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3239-3246.	2.5	14
66	Atmospheric δ^2 -Caryophyllene-Derived Ozonolysis Products at Interfaces. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 158-169.	2.7	10
67	Synthesis and confirmation of structure for the gibberellin GA131 (18-hydroxy-GA4). <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2532.	2.8	9
68	Genome Mining and Metabolomics Uncover a Rare d-Capreomycinidene Containing Natural Product and Its Biosynthetic Gene Cluster. <i>ACS Chemical Biology</i> , 2020, 15, 3013-3020.	3.4	9
69	Electrochemical and Photocatalytic Oxidative Coupling of Ketones via Silyl Bis-enol Ethers. <i>Journal of Organic Chemistry</i> , 2021, 86, 6600-6611.	3.2	9
70	Molecular Chirality and Cloud Activation Potentials of Dimeric \pm -Pinene Oxidation Products. <i>Journal of the American Chemical Society</i> , 2021, 143, 16653-16662.	13.7	9
71	Orientations of nonlocal vibrational modes from combined experimental and theoretical sum frequency spectroscopy. <i>Chemical Physics Letters</i> , 2017, 683, 199-204.	2.6	8
72	Surface-Active δ^2 -Caryophyllene Oxidation Products at the Air/Aqueous Interface. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1740-1748.	2.7	8

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73	Synthesis and surface spectroscopy of $\hat{\pm}$ -pinene isotopologues and their corresponding secondary organic material. <i>Chemical Science</i> , 2019, 10, 8390-8398.	7.4	8
74	Enantioselective synthesis of metacycloprodigosin via the $\hat{\infty}$ Wasserman pyrrole $\hat{\infty}$ ™. <i>Tetrahedron Letters</i> , 2015, 56, 3228-3230.	1.4	7
75	<i>Streptomyces buecherae</i> sp. nov., an actinomycete isolated from multiple bat species. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 2213-2221.	1.7	6
76	Liquid $\hat{\infty}$ liquid phase separation and morphologies in organic particles consisting of $\hat{\infty}$ pinene and $\hat{\infty}$ caryophyllene ozonolysis products and mixtures with commercially available organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11263-11273.	4.9	6
77	Diene Synthesis by the Reductive Transposition of 1,2-Allenols. <i>Synlett</i> , 2019, 30, 2073-2076.	1.8	5
78	Synergistic Uptake by Acidic Sulfate Particles of Gaseous Mixtures of Glyoxal and Pinanediol. <i>Environmental Science & Technology</i> , 2020, 54, 11762-11770.	10.0	5
79	Access to $\hat{\pm}$ -Pyrazole and $\hat{\pm}$ -Triazole Derivatives of Ketones from Oxidative Heteroarylation of Silyl Enoethers. <i>Organic Letters</i> , 2020, 22, 8055-8058.	4.6	5
80	Recent strategies and tactics for the enantioselective total syntheses of cyclolignan natural products. <i>Natural Product Reports</i> , 2022, 39, 670-702.	10.3	5
81	Ion Mobility Mass Spectrometry as an Efficient Tool for Identification of Streptorubin B in <i>Streptomyces coelicolor</i> M145. <i>Journal of Natural Products</i> , 2020, 83, 159-163.	3.0	4
82	Asymmetric Traceless Petasis Borono $\hat{\infty}$ Mannich Reactions of Enals: Reductive Transposition of Allylic Diazenes. <i>Angewandte Chemie</i> , 2017, 129, 16858-16862.	2.0	3
83	Synthesis and bioactivity of the gibberellin, 18-hydroxy-GA1 (GA132). <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1416.	2.8	1