

# James C Anderson

## List of Publications by Year in descending order

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71  
papers

2,340  
citations

257450

24  
h-index

233421

45  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitro-Mannich Reaction. <i>Chemical Reviews</i> , 2013, 113, 2887-2939.	47.7	305
2	Modulation of $\beta$ -lactam resistance in <i>Staphylococcus aureus</i> by catechins and gallates. <i>International Journal of Antimicrobial Agents</i> , 2004, 23, 462-467.	2.5	205
3	Applications of bioluminescence in biotechnology and beyond. <i>Chemical Society Reviews</i> , 2021, 50, 5668-5705.	38.1	134
4	A Dual-Color Far-Red to Near-Infrared Firefly Luciferin Analogue Designed for Multiparametric Bioluminescence Imaging. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13059-13063.	13.8	113
5	The Nitro-Mannich Reaction and Its Application to the Stereoselective Synthesis of 1,2-Diamines. <i>Journal of Organic Chemistry</i> , 1998, 63, 9932-9934.	3.2	111
6	An Asymmetric Nitro-Mannich Reaction Applicable to Alkyl, Aryl, and Heterocyclic Imines. <i>Journal of Organic Chemistry</i> , 2005, 70, 5665-5670.	3.2	80
7	Vinyldimethylphenylsilanes as Safety Catch Silanols in Fluoride-Free Palladium-Catalyzed Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2004, 69, 8971-8974.	3.2	65
8	Scope and Limitations of the Nitro-Mannich Reaction for the Stereoselective Synthesis of 1,2-Diamines. <i>Journal of Organic Chemistry</i> , 2005, 70, 549-555.	3.2	61
9	Enantioselective Conjugate Addition Nitro-Mannich Reactions: Solvent Controlled Synthesis of Acyclic anti- and syn- $\beta$ -Nitroamines with Three Contiguous Stereocenters. <i>Journal of Organic Chemistry</i> , 2011, 76, 1961-1971.	3.2	48
10	Asymmetric total synthesis of B-ring modified ( $\beta$ )-epicatechin gallate analogues and their modulation of $\beta$ -lactam resistance in <i>Staphylococcus aureus</i> . <i>Tetrahedron</i> , 2005, 61, 7703-7711.	1.9	47
11	Near-infrared dual bioluminescence imaging in mouse models of cancer using infraluciferin. <i>ELife</i> , 2019, 8, .	6.0	47
12	Stereoselective Synthesis of Densely Functionalized Pyrrolidin-2-ones by a Conjugate Addition/Nitro-Mannich/Lactamization Reaction. <i>Journal of Organic Chemistry</i> , 2012, 77, 6186-6198.	3.2	45
13	The Silicon-Assisted Aza-[2,3]-Wittig Sigmatropic Rearrangement. <i>Journal of Organic Chemistry</i> , 1996, 61, 4820-4823.	3.2	43
14	The direct use of phenyldimethylsilanes in silicon assisted palladium catalysed cross coupling Electronic supplementary information (ESI) available: further experimental details. See <a href="http://www.rsc.org/suppdata/cc/b2/b205765d/">http://www.rsc.org/suppdata/cc/b2/b205765d/</a> . <i>Chemical Communications</i> , 2002, , 2018-2019.	4.1	42
15	A General One-Step Synthesis of $\beta$ -Nitronitriles. <i>Organic Letters</i> , 2008, 10, 4141-4143.	4.6	42
16	The Aza-[2,3]-Wittig Sigmatropic Rearrangement of Acyclic Amines: Scope and Limitations of Silicon Assistance. <i>Journal of Organic Chemistry</i> , 2000, 65, 9152-9156.	3.2	38
17	Synthesis and antibacterial activity of hydrolytically stable ( $\beta$ )-epicatechin gallate analogues for the modulation of $\beta$ -lactam resistance in <i>Staphylococcus aureus</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 2633-2635.	2.2	33
18	Reductive Nitro-Mannich Route for the Synthesis of 1,2-Diamine Containing Indolines and Tetrahydroquinolines. <i>Journal of Organic Chemistry</i> , 2012, 77, 6703-6727.	3.2	32

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19	Asymmetric aza-[2,3]-Wittig sigmatropic rearrangements: chiral auxiliary control and formal asymmetric synthesis of (2S, 3R, 4R)-4-hydroxy-3-methylproline and (â€“)â€“)-kainic acid. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2741.	2.8	31
20	An enantioselective tandem reduction/nitro-Mannich reaction of nitroalkenes using a simple thiourea organocatalyst. <i>Chemical Science</i> , 2013, 4, 2897.	7.4	28
21	A Divergent Synthetic Route to the Vallesamidine and Schizozygine Alkaloids: Total Synthesis of (+)-Vallesamidine and (+)-4,15-Dihydrostrempepiopine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18040-18045.	13.8	28
22	Anti-staphylococcal activity and $\beta$ -lactam resistance attenuating capacity of structural analogues of (â€“)â€“)-epicatechin gallate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 6996-7000.	2.2	27
23	Conjugate addition nitro-Mannich reaction of carbon and heteroatom nucleophiles to nitroalkenes. <i>Tetrahedron</i> , 2014, 70, 9337-9351.	1.9	27
24	Total Synthesis of (â€“)â€“)-Kainic Acid with an Aza-[2,3]-Wittig Sigmatropic Rearrangement as the Key Stereochemical Determining Step. <i>Journal of Organic Chemistry</i> , 2003, 68, 6160-6163.	3.2	26
25	Aza-[2,3]-Wittig sigmatropic rearrangement of crotyl amines. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1835.	2.0	25
26	Synthesis of $\beta$ , $\gamma$ -disubstituted unnatural amino acid derivatives using the aza-[2,3]-Wittig sigmatropic rearrangement. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 2871-2879.	1.3	24
27	Regiochemical switching of Mitsunobu cyclisation mode of vicinal diamines with pendant hydroxyl group. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2413.	2.8	24
28	A Biomimetic Strategy for the Synthesis of the Tricyclic Dibenzofuran-1,4-dione Core of Popolohuanone E. <i>Organic Letters</i> , 2005, 7, 123-125.	4.6	23
29	Staphylococcal Phenotypes Induced by Naturally Occurring and Synthetic Membrane-Interactive Polyphenolic $\beta$ -Lactam Resistance Modifiers. <i>PLoS ONE</i> , 2014, 9, e93830.	2.5	23
30	Convergent synthesis and optical properties of near-infrared emitting bioluminescent infra-luciferins. <i>RSC Advances</i> , 2017, 7, 3975-3982.	3.6	23
31	Asymmetric Intramolecular Conjugate Addition Nitro-Mannich Route to <i>cis</i> -2-Aryl-3-nitrotetrahydroquinolines. <i>Organic Letters</i> , 2015, 17, 4090-4093.	4.6	22
32	Revisiting monomer synthesis and radical ring opening polymerization of dimethylated MDO towards biodegradable nanoparticles for enzymes. <i>European Polymer Journal</i> , 2018, 101, 113-119.	5.4	22
33	Novel monomers in radical ring-opening polymerisation for biodegradable and pH responsive nanoparticles. <i>Polymer Chemistry</i> , 2019, 10, 5285-5288.	3.9	22
34	Aluminum Amalgam for the Reduction of Sensitive $\beta$ -Nitroamines to 1,2-Diamines. <i>Synthesis</i> , 2006, 2006, 3309-3315.	2.3	21
35	Synthesis of ureas from titanium imido complexes using CO <sub>2</sub> as a C-1 reagent at ambient temperature and pressure. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1334-1338.	2.8	21
36	Diastereoselective Reductive Nitro-Mannich Reactions. <i>Journal of Organic Chemistry</i> , 2012, 77, 4711-4724.	3.2	20

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37	Diastereoselective acyclic aza-[2,3] Wittig sigmatropic rearrangements. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 1517-1522.	0.9	19
38	Investigation of the asymmetric ionic Diels-Alder reaction for the synthesis of cis-decalins. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 2877-2885.	2.8	19
39	Synthesis of planar chiral ferrocenyl 1,3-diamines and 1,3-amino ethers. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3586.	2.8	18
40	A Series of [3 + 2] Cycloaddition Products from the Reaction of Rhenium Oxo Complexes with Diphenyl Ketene. <i>Inorganic Chemistry</i> , 2007, 46, 2797-2804.	4.0	18
41	Chirality transfer in the aza-[2,3]-Wittig sigmatropic rearrangement. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 3734.	2.8	17
42	Molybdenum Oxo-Imido Aryloxo Complexes: Oxo Analogues of Olefin Metathesis Catalysts. <i>Inorganic Chemistry</i> , 2006, 45, 4556-4561.	4.0	17
43	Diastereoselective synthesis of substituted prolines via 5-endo-trig cyclisations of aza-[2,3]-Wittig sigmatropic rearrangement products. <i>Tetrahedron</i> , 2010, 66, 6300-6308.	1.9	17
44	The efficient synthesis of carbodiimides using a titanium imido complex. <i>Tetrahedron</i> , 2010, 66, 9182-9186.	1.9	17
45	An intramolecular nitro-Mannich route to functionalised tetrahydroquinolines. <i>Tetrahedron Letters</i> , 2012, 53, 5707-5710.	1.4	17
46	Enantioselective functionalisation of the C-2 position of 1,2,3,4,5-pentamethylazaferroceneviasparteine mediated lithiation: potential new ligands for asymmetric catalysis. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 330-339.	2.8	16
47	A New Oxidative Addition of Ruthenium(0) into an Aryl Halide Bond and Subsequent Intermolecular C-H Insertion. <i>Organometallics</i> , 2009, 28, 5289-5292.	2.3	15
48	A novel tridentate coordination mode for the carbonatonicel system exhibited in an unusual hexanuclear nickel(ii) $\mu_3$ -carbonato-bridged complex. <i>Dalton Transactions</i> , 2009, , 9153.	3.3	15
49	The aza-[2,3]-Wittig sigmatropic rearrangement of Z(C)-alkenes. <i>Tetrahedron Letters</i> , 1998, 39, 2649-2650.	1.4	14
50	Photoelectron spectroscopy of isolated luciferin and infraluciferin anions <i>in vacuo</i> : competing photodetachment, photofragmentation and internal conversion. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22711-22720.	2.8	14
51	Strategies for protodesilylation of C-2 trialkylsilyl terminal alkenes. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 3025-3027.	1.3	13
52	Stereocontrolled synthesis of (2S,3R,4R)-4-hydroxy-3-methylproline using a silicon assisted aza-[2,3]-Wittig sigmatropic rearrangement. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 267-269.	1.3	13
53	Role of Photoisomerization on the Photodetachment of the Photoactive Yellow Protein Chromophore. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8222-8228.	2.5	13
54	Electronic structure and dynamics of torsion-locked photoactive yellow protein chromophores. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31572-31580.	2.8	12

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55	Synthesis of the reported structure of piperazirum using a nitro-Mannich reaction as the key stereochemical determining step. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1737-1744.	2.2	11
56	Improved synthesis of structural analogues of (âˆ™)-epicatechin gallate for modulation of staphylococcal Î²-lactam resistance. <i>Tetrahedron</i> , 2014, 70, 3485-3490.	1.9	11
57	An investigation into oxo analogues of molybdenum olefin metathesis complexes as epoxidation catalysts for alkenes. <i>Tetrahedron Letters</i> , 2009, 50, 5344-5346.	1.4	10
58	Synthesis and bioluminescence of electronically modified and rotationally restricted colour-shifting infraluciferin analogues. <i>Tetrahedron</i> , 2019, 75, 347-356.	1.9	10
59	Nucleophilic reactivity of a d0 molybdenum oxo moiety. <i>Dalton Transactions</i> , 2009, , 1201.	3.3	9
60	Stereoselective synthesis of 1,2-diamine containing indolines by a conjugate addition nitro-mannich reaction. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 170-177.	2.8	9
61	Reductive conjugate addition nitro-Mannich route for the stereoselective synthesis of 1,2,3,4-tetrahydroquinoxalines. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8270-8277.	2.8	9
62	Stereoselective Synthesis of Densely Substituted Tetrahydroquinolines by a Conjugate Addition Nitro-Mannich Reaction with Carbon Nucleophiles. <i>Synlett</i> , 2015, 27, 41-44.	1.8	8
63	Base-Controlled Diastereoselective Synthesis of Either <i>anti</i> - or <i>syn</i> -Î²-Aminonitriles. <i>Organic Letters</i> , 2017, 19, 1918-1921.	4.6	6
64	Î²-Fluors: Brighter <i>Photinus pyralis</i> firefly luciferases identified by surveying consecutive single amino acid deletion mutations in a thermostable variant. <i>Biotechnology and Bioengineering</i> , 2018, 115, 50-59.	3.3	6
65	Radical cyclisation studies of Î²-nitroamines from the nitro-Mannich reaction. <i>Tetrahedron</i> , 2018, 74, 5458-5474.	1.9	5
66	Shining light on the electronic structure and relaxation dynamics of the isolated oxyluciferin anion. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19022-19032.	2.8	5
67	Investigation of the [1,5]-hydride shift as a route to nitro-Mannich cyclisations. <i>Tetrahedron</i> , 2019, 75, 130663.	1.9	4
68	EFFICIENT DIASTEREOSELECTIVE SYNTHESIS OF EITHER FORM OF meso-2,6-DIMETHYLCYCLO-HEXANE CARBOXALDEHYDE. <i>Synthetic Communications</i> , 2001, 31, 939-946.	2.1	3
69	Diastereoselective synthesis of Î²-aminosulfones from the 1,2-addition to N-(para-methoxyphenyl) imines. <i>Tetrahedron Letters</i> , 2014, 55, 7206-7208.	1.4	3
70	A Divergent Synthetic Route to the Vallesamidine and Schizozygine Alkaloids: Total Synthesis of (+)-Vallesamidine and (+)-14,15-Dehydrostrempepiopine. <i>Angewandte Chemie</i> , 2019, 131, 18208-18213.	2.0	3
71	Asymmetric synthesis of piperidines using the nitro-Mannich reaction. <i>Tetrahedron</i> , 2021, 78, 131821.	1.9	1