Jason A Smith

List of Publications by Year
in descending order

113 papers	2,354 citations	172457 29 h-index	254184 43 g-index
134 all docs	134 docs citations	134 times ranked	2863 citing authors

#	Article	IF	Citations
1	Palladiumâ€Catalysed Crossâ€Coupling and Related Reactions Involving Pyrroles. European Journal of Organic Chemistry, 2006, 2006, 3043-3060.	2.4	88
2	Binuclear manganese complexes as catalysts in the selective and efficient oxidation of sulfides to sulfones. Tetrahedron Letters, 1998, 39, 7055-7058.	1.4	87
3	Border between natural product and drug: Comparison of the related benzoquinones idebenone and coenzyme Q10. Redox Biology, 2015, 4, 289-295.	9.0	84
4	Auxin Biosynthesis in Pea: Characterization of the Tryptamine Pathway Â Â. Plant Physiology, 2009, 151, 1130-1138.	4.8	82
5	Towards high capacity latex-coated porous polymer monoliths as ion-exchange stationary phases. Analyst, The, 2006, 131, 215-221.	3.5	79
6	Palladium-mediated organic synthesis using porous polymer monolith formed in situ as a continuous catalyst support structure for application in microfluidic devices. Tetrahedron, 2009, 65, 1450-1454.	1.9	74
7	The influence of chiral auxiliaries and catalysts on the selectivity of intramolecular conjugate additions of pyrrole to N-tethered Michael acceptors. Organic and Biomolecular Chemistry, 2004, 2, 157.	2.8	69
8	Biosynthesis of the Halogenated Auxin, 4-Chloroindole-3-Acetic Acid Â Â. Plant Physiology, 2012, 159, 1055-1063.	4.8	69
9	New Method for the Rapid Extraction of Natural Products: Efficient Isolation of Shikimic Acid from Star Anise. Organic Letters, 2015, 17, 2428-2430.	4.6	66
10	Total synthesis of (Â±)-rhazinal, an alkaloidal spindle toxin from Kopsia teoi. Organic and Biomolecular Chemistry, 2003, 1, 296-305.	2.8	63
11	A new and high yielding synthesis of unstable pyrroles via a modified Clauson-Kaas reaction. Tetrahedron Letters, 2006, 47, 799-801.	1.4	59
12	Reassessing the Role of N-Hydroxytryptamine in Auxin Biosynthesis. Plant Physiology, 2010, 154, 1957-1965.	4.8	59
13	Annulation of pyrrole: application to the synthesis of indolizidine alkaloids. Tetrahedron, 2005, 61, 8226-8230.	1.9	57
14	The Oxidation of Pyrrole. Chemistry - an Asian Journal, 2016, 11, 155-167.	3.3	53
15	Study of a new reaction: Trapping of peroxyl radicals by TEMPO. Tetrahedron Letters, 1998, 39, 7483-7486.	1.4	50
16	Macroporous monolith supports for continuous flow capillary microreactors. Tetrahedron Letters, 2006, 47, 9321-9324.	1.4	49
17	Supported palladium catalysis using a heteroleptic 2-methylthiomethylpyridineâ€“N,Sâ€“donor motif for Mizorokiâ€“Heck and Suzukiâ€“Miyaura coupling, including continuous organic monolith in capillary microscale flow-through mode. Tetrahedron, 2009, 65, 7474-7481.	1.9	42
18	Methods for the synthesis of annulated pyrroles via cyclisation strategies. Organic and Biomolecular Chemistry, 2018, 16, 1216-1226.	2.8	40

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19	Evidence for a higher oxidation state of manganese in the reaction of dinuclear manganese complexes with oxidants. Comparison with iron based Gif chemistry. Tetrahedron, 1998, 54, 3367-3378.	1.9	38
20	The regioselective synthesis of aryl pyrroles. Organic and Biomolecular Chemistry, 2006, 4, 2477.	2.8	38
21	A mechanistic study on the oxidation of hydrazides: application to the tuberculosis drug isoniazid. Chemical Communications, 2008, , 1695.	4.1	38
22	The role of strigolactones during plant interactions with the pathogenic fungus Fusarium oxysporum. Planta, 2016, 243, 1387-1396.	3.2	38
23	Exploiting multiple nucleophilic sites on pyrrole for the assembly of polyheterocyclic frameworks: application to a formal total synthesis of (Â±)-aspidospermidine. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 2613-2618.	1.3	37
24	UV initiated formation of polymer monoliths in glass and polymer microreactors. Sensors and Actuators B: Chemical, 2011, 155, 388-396.	7.8	35
25	3-(Oxazolo[4,5-b]pyridin-2-yl)anilides as a novel class of potent inhibitors for the kinetoplastid Trypanosoma brucei, the causative agent for human African trypanosomiasis. European Journal of Medicinal Chemistry, 2013, 66, 450-465.	5.5	32
26	Controlled Oxidation of Pyrroles: Synthesis of Highly Functionalized Î³-Lactams. Organic Letters, 2013, 15, 1714-1717.	4.6	31
27	Practical isolation of polygodial from Tasmannia lanceolata: a viable scaffold for synthesis. Organic and Biomolecular Chemistry, 2015, 13, 11200-11207.	2.8	31
28	Extraction of Eugenol from Cloves Using an Unmodified Household Espresso Machine: An Alternative to Traditional Steam-Distillation. Journal of Chemical Education, 2016, 93, 213-216.	2.3	31
29	Auxin Biosynthesis: Are the Indole-3-Acetic Acid and Phenylacetic Acid Biosynthesis Pathways Mirror Images?. Plant Physiology, 2016, 171, 1230-41.	4.8	31
30	The synthesis of oxazoles by thermolysis or photolysis of 2-acylisoxazol-5-ones. Tetrahedron Letters, 1996, 37, 675-678.	1.4	30
31	Seven-Membered Rings. Progress in Heterocyclic Chemistry, 2012, 24, 493-536.	0.5	30
32	Chemistry of 5-oxodihydroisoxazoles. Part 18.1 Synthesis of oxazoles by the photolysis and pyrolysis of 2-acyl-5-oxo-2,5-dihydroisoxazoles. Journal of the Chemical Society Perkin Transactions 1, 1997, , 2665-2672.	0.9	29
33	Hydrogen/deuterium exchange on aromatic rings during atmospheric pressure chemical ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 1105-1110.	1.5	29
34	A Total Synthesis of the Styryllactone (+)-Goniodiol from Naphthalene. Australian Journal of Chemistry, 2003, 56, 585.	0.9	25
35	Progress in the Development of Plateletâ€Activating Factor Receptor (PAFr) Antagonists and Applications in the Treatment of Inflammatory Diseases. ChemMedChem, 2018, 13, 1873-1884.	3.2	24
36	Mechanistic investigation of the oxidation of hydrazides: implications for the activation of the TB drug isoniazid. Organic and Biomolecular Chemistry, 2013, 11, 170-176.	2.8	22

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37	A comparison of some pyrolysis reactions of benzotriazoles, benzisoxazolones and benzisothiazolones. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 3212-3216.	1.3	21
38	Synthesis and Phytotoxicity of Structural Analogues of Thaxtomin Natural Products. Australian Journal of Chemistry, 2010, 63, 813.	0.9	21
39	Convergent synthesis and preliminary biological evaluation of (Â±)-B-norrhazinalâ€Šâ€. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 1497-1499.	1.3	20
40	A MILD, ONE-POT METHOD FOR THE CONVERSION OF CARBOXYLIC ACIDS INTO THE CORRESPONDING WEINREB AMIDES. Synthetic Communications, 2001, 31, 2011-2019.	2.1	20
41	A chemoenzymatic synthesis of the styryllactone (+)-goniodiol from naphthalene. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 1622-1624.	1.3	20
42	Chemoselective reduction of 2-acyl-N-sulfonylpyrroles: Synthesis of 3-pyrrolines and 2-alkylpyrroles. Organic and Biomolecular Chemistry, 2011, 9, 3948.	2.8	20
43	Nuances in Fundamental Suzukiâ€“Miyaura Cross-Couplings Employing [Pd(PPh3)4]: Poor Reactivity of Aryl Iodides at Lower Temperatures. Organometallics, 2018, 37, 1745-1750.	2.3	19
44	Arbutin Derivatives Isolated from Ancient Proteaceae: Potential Phytochemical Markers Present in Bellendena, Cenarrhenes, and Persoonia Genera. Journal of Natural Products, 2018, 81, 1241-1251.	3.0	18
45	Microfluidic Devices for Flow-Through Supported Palladium Catalysis on Porous Organic Monolith. Australian Journal of Chemistry, 2008, 61, 630.	0.9	16
46	Separation of the primary and secondary kinetic isotope effects at a reactive center using starting material reactivities. Application to the FeCl3-Catalyzed oxidation of Cî—¸H bonds with tert-butyl hydroperoxide. Tetrahedron Letters, 1999, 40, 3847-3850.	1.4	15
47	Chapter 7: Seven-Membered Rings. Progress in Heterocyclic Chemistry, 2009, 21, 491-530.	0.5	14
48	Development of a novel fluorescent tag O-2-[aminoethyl]fluorescein for the electrophoretic separation of oligosaccharides. Analytica Chimica Acta, 2010, 662, 206-213.	5.4	14
49	Bitter melon protects against ER stress in LS174T colonic epithelial cells. BMC Complementary and Alternative Medicine, 2017, 17, 2.	3.7	14
50	Pressurized Hot Water Extraction as a Viable Bioprospecting Tool: Isolation of Coumarin Natural Products from Previously Unexamined Correa (Rutaceae) Species. ChemistrySelect, 2017, 2, 2439-2443.	1.5	13
51	Amide linked redox-active naphthoquinones for the treatment of mitochondrial dysfunction. MedChemComm, 2019, 10, 399-412.	3.4	13
52	Knorr-Rabe partial reduction of pyrroles: Application to the synthesis of indolizidine alkaloids. Beilstein Journal of Organic Chemistry, 2008, 4, 3.	2.2	12
53	Synthesis of Nitrogen-Substituted Methylenecyclopropanes by Strain-Driven Overman Rearrangement of Cyclopropenylmethyl Trichloroacetimidates. Journal of Organic Chemistry, 2014, 79, 8462-8468.	3.2	12
54	BrÃ¸nsted acid-mediated annulations of pyrroles featuring N-tethered Î±,Î²-unsaturated ketones and esters: Total syntheses of (Â±)-tashiromine and (Â±)-indolizidine 209I. Tetrahedron, 2018, 74, 5436-5441.	1.9	12

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55	Chemistry of 5-oxodihydroisoxazoles. Part 17.1 Acylation of 5-oxodihydroisoxazoles. Journal of the Chemical Society Perkin Transactions 1, 1997, , 2659-2664.	0.9	11
56	Seven-Membered Rings. Progress in Heterocyclic Chemistry, 2013, , 455-495.	0.5	11
57	ent-Labdane Diterpenoids from Dodonaea viscosa. Journal of Natural Products, 2016, 79, 3117-3126.	3.0	11
58	Capstone Laboratory Experiment Investigating Key Features of Palladium-Catalyzed Suzukiâ€“Miyaura Cross-Coupling Reactions. Journal of Chemical Education, 2018, 95, 2081-2085.	2.3	11
59	Development and Applications of Waterâ€based Extraction Methods in Natural Products Isolation Chemistry. Asian Journal of Organic Chemistry, 2020, 9, 1144-1153.	2.7	11
60	Unified Total Syntheses of (Â±)-Sessilifoliamides B, C, and D. Organic Letters, 2021, 23, 3437-3441.	4.6	11
61	Practical Isolation of Asperuloside from Coprosma quadrifida via Rapid Pressurised Hot Water Extraction. Australian Journal of Chemistry, 2016, 69, 1219.	0.9	10
62	Phytochemical profile of the rare, ancient clone Lomatia tasmanica and comparison to other endemic Tasmanian species L. tinctoria and L. polymorpha. Phytochemistry, 2018, 153, 74-78.	2.9	10
63	Revised Structures of Dehydrostenines A and B: Total Syntheses of (Â±)â€Dehydrostenine A and Structure Assigned to Dehydrostenine B. Chemistry - A European Journal, 2021, 27, 15382-15386.	3.3	10
64	Synthesis of Pyrrolidineâ€•and Î³â€Lactamâ€Containing Natural Products and Related Compounds from Pyrrole Scaffolds. Chemical Record, 2022, 22, .	5.8	10
65	The selective functionalization of saturated hydrocarbons. Part 42. Further studies in selective phenylselenation. Tetrahedron, 1998, 54, 1725-1734.	1.9	8
66	Acyl radical addition to pyridine: multiorbital interactions. Tetrahedron, 2009, 65, 7653-7657.	1.9	8
67	Seven-Membered Rings. Progress in Heterocyclic Chemistry, 2011, 22, 491-536.	0.5	8
68	Polygodial: A viable natural product scaffold for the rapid synthesis of novel polycyclic pyrrole and pyrrolidine derivatives. Tetrahedron, 2018, 74, 1167-1174.	1.9	8
69	DFT-Based Comparison between Mechanistic Aspects of Amine and Alcohol Oxidation Mediated by IBX. Journal of Organic Chemistry, 2020, 85, 515-525.	3.2	8
70	Asperuloside Enhances Taste Perception and Prevents Weight Gain in High-Fat Fed Mice. Frontiers in Endocrinology, 2021, 12, 615446.	3.5	8
71	Seven-Membered Rings. Progress in Heterocyclic Chemistry, 2011, 23, 465-504.	0.5	7
72	Reassessing the role of YUCCAs in auxin biosynthesis. Plant Signaling and Behavior, 2011, 6, 437-439.	2.4	7

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73	Identification of the putative aggregation pheromone components emitted by the European earwig, Forficula auricularia. Chemoecology, 2016, 26, 173-186.	1.1	7
74	Extraction of carboxylic acid-containing diterpenoids from Dodonaea viscosa via pressurised hot water extraction. FÃ¬toterapÃ¬Ã¢, 2018, 126, 65-68.	2.2	7
75	Novel Short-Chain Quinones to Treat Vision Loss in a Rat Model of Diabetic Retinopathy. International Journal of Molecular Sciences, 2021, 22, 1016.	4.1	7
76	High-Temperature Rearrangements of 2-Acylisoxazol-5(2H)-ones and Related Oxazoles.. Australian Journal of Chemistry, 1999, 52, 1029.	0.9	6
77	Identification, Synthesis and Field Testing of (3Z,6Z,9Z)-3,6,9-Henicosatriene, a Second Bioactive Component of the Sex Pheromone of the Autumn Gum Moth, Mnesampela privata. Journal of Chemical Ecology, 2009, 35, 1411-1422.	1.8	6
78	Cow Dung Biomass Smoke Exposure Increases Adherence of Respiratory Pathogen Nontypeable Haemophilus influenzae to Human Bronchial Epithelial Cells. Exposure and Health, 2020, 12, 883-895.	4.9	6
79	Exploring Cyclization Strategies to Access Stemona Alkaloids: Subtle Effects Influencing Reactivity in Intramolecular Michael Additions. Organic Letters, 2021, 23, 8494-8498.	4.6	6
80	Use of the Anti-Oxidant Butylated Hydroxytoluene in situ for the Synthesis of Readily Oxidized Compounds: Application to the Synthesis of the Moth Pheromone (Z,Z,Z)-3,6,9-Nonadecatriene. Australian Journal of Chemistry, 2007, 60, 848.	0.9	5
81	Methyl 4-p-tolyl-1H-pyrrole-2-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o470-o471.	0.2	5
82	Analysis of the Enolâ€“Keto Tautomers of Indole-3-pyruvic Acid. Australian Journal of Chemistry, 2015, 68, 345.	0.9	5
83	Natural Products Isolated from Endemic Tasmanian Vascular Plants. Australian Journal of Chemistry, 2018, 71, 756.	0.9	5
84	Pressurized Hot Water Extraction and Capillary Electrophoresis for Green and Fast Analysis of Useful Metabolites in Plants. Molecules, 2019, 24, 2349.	3.8	5
85	Comparative In Vitro Toxicology of Novel Cytoprotective Short-Chain Naphthoquinones. Pharmaceuticals, 2020, 13, 184.	3.8	5
86	Metabolic Stability of New Mito-Protective Short-Chain Naphthoquinones. Pharmaceuticals, 2020, 13, 29.	3.8	5
87	How a Bismuth(III) Catalyst Achieves Greatest Activation of Organic Lewis Bases in a Catalytic Reaction: Insights from DFT Calculations. ChemCatChem, 2021, 13, 975-980.	3.7	5
88	Polygodial and Ophiobolin A Analogues for Covalent Crosslinking of Anticancer Targets. International Journal of Molecular Sciences, 2021, 22, 11256.	4.1	5
89	Photolysis of phenyldisic acids: evidence for unique product formation from discrete tautomers. Journal of the Chemical Society Chemical Communications, 1994, , 1805.	2.0	4
90	Triplet Lifetimes, Solvent, and Intramolecular Capture of Isoxazolones. Australian Journal of Chemistry, 2004, 57, 101.	0.9	4

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91	Acyl radical addition to benzene and related systemsâ€”a computational study. Tetrahedron, 2010, 66, 7600-7604.	1.9	4
92	Isolation and Characterization of 1â€‰Î²â€Acetoxypolygodial from Tasmannia lanceolata. Asian Journal of Organic Chemistry, 2014, 3, 1193-1196.	2.7	4
93	Seven-Membered Rings. Progress in Heterocyclic Chemistry, 2014, 26, 521-571.	0.5	4
94	Visible light dye-photosensitised oxidation of pyrroles using a simple LED photoreactor. Organic and Biomolecular Chemistry, 2016, 14, 8873-8880.	2.8	4
95	Novel polygodial analogs P3 and P27: Efficacious therapeutic agents disrupting mitochondrial function in oral squamous cell carcinoma. International Journal of Oncology, 2018, 53, 2627-2636.	3.3	4
96	Activity of natural and synthetic polygodial derivatives against Trypanosoma cruzi amastigotes, trypomastigotes and epimastigotes. Natural Product Research, 2021, 35, 792-795.	1.8	4
97	Natural products isolation studies of the paleoendemic plant species Nothofagus gunnii and Nothofagus cunninghamii. FÃ¬toterapÃ¬Ã¢, 2022, 156, 105088.	2.2	4
98	Oxidation of Phenylhydrazones with Benzeneseleninic Anhydride: A New Mechanistically Interesting Observation. Molecules Online, 1998, 2, 22-28.	0.3	3
99	Chapter 7: Seven-membered rings. Progress in Heterocyclic Chemistry, 2009, , 432-458.	0.5	3
100	Nucleophilic Acyl Substitution of Acyl Diimides. Journal of Organic Chemistry, 2009, 74, 5707-5710.	3.2	3
101	Synthesis of Heterocyclic-fused Imidazoles by Pyrolysis of N-Heterocyclic Isoxazol-5(2H)-ones. Australian Journal of Chemistry, 2014, 67, 1228.	0.9	3
102	Employing Pressurized Hot Water Extraction (PHWE) to Explore Natural Products Chemistry in the Undergraduate Laboratory. Journal of Visualized Experiments, 2018, , .	0.3	3
103	Computational Investigation into the Mechanistic Features of Bromide-Catalyzed Alcohol Oxidation by PhIO in Water. Journal of Organic Chemistry, 2021, 86, 2998-3007.	3.2	3
104	The Chemistry of 5-Oxodihydroisoxazoles.Part 23.1 Photochemical and Thermal Reactions of Isoxazol-5(2H)-ones substituted at C-3 or C-4 with Nitrogen, Oxygen or Sulfur. Journal of Chemical Research Synopses, 1999, , 70-71.	0.3	2
105	A General and Efficient Approach to the Proposed Structures of Frog Toxins: The 5-Alkylindolizidines. Natural Product Communications, 2006, 1, 1934578X0600101.	0.5	2
106	Ethyl 3-methylimidazo[1,2-a]pyrimidine-2-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o451-o453.	0.2	1
107	A mutation affecting the synthesis of 4-chloroindole-3-acetic acid. Plant Signaling and Behavior, 2012, 7, 1533-1536.	2.4	1
108	Distinct Drimane Chemotypes in Tasmanian Mountain Pepper (Tasmannia lanceolata): Differences in the Profiles of Pungent Leaf Phytochemicals Associated with Altitudinal Cline. Journal of Agricultural and Food Chemistry, 2020, 68, 315-322.	5.2	1

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109	Bioactivity Profiles of Cytoprotective Short-Chain Quinones. Molecules, 2021, 26, 1382.	3.8	1
110	Short-Chain Naphthoquinone Protects Against Both Acute and Spontaneous Chronic Murine Colitis by Alleviating Inflammatory Responses. Frontiers in Pharmacology, 2021, 12, 709973.	3.5	1
111	Methyl 4-chloro-3,5-di-p-tolyl-1H-pyrrole-2-carboxylate dichloromethane hemisolvate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o197-o199.	0.2	0
112	(RS)-2-(3,4-Methylenedioxyphenyl)-5-phenyl-3,6-dihydro-2H-pyran. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o955-o957.	0.2	0
113	The Chemistry of 5-Oxodihydroisoxazoles. Part 23. Photochemical and Thermal Reactions of Isoxazol-5(2H)-ones substituted at C-3 or C-4 with Nitrogen, Oxygen or Sulfur. Journal of Chemical Research, 1999, 23, 70-71.	1.3	0