

Elizabeth S Sattely

List of Publications by Year in descending order

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43
papers

4,570
citations

117625

34
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

5436
citing authors

#	ARTICLE	IF	CITATIONS
1	Rerouting plant terpene biosynthesis enables momilactone pathway elucidation. <i>Nature Chemical Biology</i> , 2021, 17, 205-212.	8.0	77
2	Dirigent Proteins Guide Asymmetric Heterocoupling for the Synthesis of Complex Natural Product Analogues. <i>Journal of the American Chemical Society</i> , 2021, 143, 5011-5021.	13.7	21
3	A metabolic regulon reveals early and late acting enzymes in neuroactive <i>Lycopodium</i> alkaloid biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	38
4	Engineering Posttranslational Regulation of Glutamine Synthetase for Controllable Ammonia Production in the Plant Symbiont <i>Azospirillum brasilense</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0058221.	3.1	14
5	A plant host, <i>Nicotiana benthamiana</i> , enables the production and study of fungal lignin-degrading enzymes. <i>Communications Biology</i> , 2021, 4, 1027.	4.4	5
6	Improved Stability of Engineered Ammonia Production in the Plant-Symbiont <i>Azospirillum brasilense</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 2982-2996.	3.8	7
7	<i>Arabidopsis</i> UGT76B1 glycosylates <i>N</i> -hydroxy-pipecolic acid and inactivates systemic acquired resistance in tomato. <i>Plant Cell</i> , 2021, 33, 750-765.	6.6	48
8	Total Biosynthesis of the Tubulin-Binding Alkaloid Colchicine. <i>Journal of the American Chemical Society</i> , 2021, 143, 19454-19465.	13.7	28
9	A Pathogen-Responsive Gene Cluster for Highly Modified Fatty Acids in Tomato. <i>Cell</i> , 2020, 180, 176-187.e19.	28.9	94
10	Root-Secreted Coumarins and the Microbiota Interact to Improve Iron Nutrition in <i>Arabidopsis</i> . <i>Cell Host and Microbe</i> , 2020, 28, 825-837.e6.	11.0	199
11	Engineering Plant Synthetic Pathways for the Biosynthesis of Novel Antifungals. <i>ACS Central Science</i> , 2020, 6, 1394-1400.	11.3	22
12	Discovery and engineering of colchicine alkaloid biosynthesis. <i>Nature</i> , 2020, 584, 148-153.	27.8	152
13	A Metabolic Pathway for Activation of Dietary Glucosinolates by a Human Gut Symbiont. <i>Cell</i> , 2020, 180, 717-728.e19.	28.9	84
14	Identification of key enzymes responsible for protolimonoid biosynthesis in plants: Opening the door to azadirachtin production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17096-17104.	7.1	71
15	An engineered pathway for <i>N</i> -hydroxy-pipecolic acid synthesis enhances systemic acquired resistance in tomato. <i>Science Signaling</i> , 2019, 12, .	3.6	46
16	Plant-derived coumarins shape the composition of an <i>Arabidopsis</i> synthetic root microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12558-12565.	7.1	313
17	Total Biosynthesis for Milligram-Scale Production of Etoposide Intermediates in a Plant Chassis. <i>Journal of the American Chemical Society</i> , 2019, 141, 19231-19235.	13.7	62
18	A lignin-epoxy resin derived from biomass as an alternative to formaldehyde-based wood adhesives. <i>Green Chemistry</i> , 2018, 20, 1459-1466.	9.0	182

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19	HEx: A heterologous expression platform for the discovery of fungal natural products. <i>Science Advances</i> , 2018, 4, eaar5459.	10.3	167
20	Biosynthesis of redox-active metabolites in response to iron deficiency in plants. <i>Nature Chemical Biology</i> , 2018, 14, 442-450.	8.0	220
21	D ₂ O Labeling to measure active biosynthesis of natural products in medicinal plants. <i>AIChE Journal</i> , 2018, 64, 4319-4330.	3.6	14
22	<i>N</i> -hydroxy-pipecolic acid is a mobile metabolite that induces systemic disease resistance in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4920-E4929.	7.1	187
23	Discovery and Engineering of Plant Chemistry for Plant and Human Health. <i>FASEB Journal</i> , 2018, 32, 380.3.	0.5	0
24	Biosynthesis of cabbage phytoalexins from indole glucosinolate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1910-1915.	7.1	72
25	Competing mechanisms for perfluoroalkyl acid accumulation in plants revealed using an <i>Arabidopsis</i> model system. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1138-1147.	4.3	59
26	Plant Assimilation Kinetics and Metabolism of 2-Mercaptobenzothiazole Tire Rubber Vulcanizers by <i>Arabidopsis</i> . <i>Environmental Science & Technology</i> , 2016, 50, 6762-6771.	10.0	40
27	Two cytochromes P450 catalyze S-heterocyclizations in cabbage phytoalexin biosynthesis. <i>Nature Chemical Biology</i> , 2015, 11, 837-839.	8.0	38
28	Six enzymes from mayapple that complete the biosynthetic pathway to the etoposide aglycone. <i>Science</i> , 2015, 349, 1224-1228.	12.6	359
29	A new cyanogenic metabolite in <i>Arabidopsis</i> required for inducible pathogen defence. <i>Nature</i> , 2015, 525, 376-379.	27.8	195
30	Rapid Phytotransformation of Benzotriazole Generates Synthetic Tryptophan and Auxin Analogs in <i>Arabidopsis</i> . <i>Environmental Science & Technology</i> , 2015, 49, 10959-10968.	10.0	86
31	Key Applications of Plant Metabolic Engineering. <i>PLoS Biology</i> , 2014, 12, e1001879.	5.6	39
32	The chemical logic of plant natural product biosynthesis. <i>Current Opinion in Plant Biology</i> , 2014, 19, 51-58.	7.1	59
33	A Renewable Lignin-Lactide Copolymer and Application in Biobased Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1231-1238.	6.7	282
34	Minimum Set of Cytochromes P450 for Reconstituting the Biosynthesis of Camalexin, a Major <i>Arabidopsis</i> Antibiotic. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13625-13628.	13.8	68
35	Three Siderophores from One Bacterial Enzymatic Assembly Line. <i>Journal of the American Chemical Society</i> , 2009, 131, 5056-5057.	13.7	65
36	Design and Stereoselective Preparation of a New Class of Chiral Olefin Metathesis Catalysts and Application to Enantioselective Synthesis of Quebrachamine: Catalyst Development Inspired by Natural Product Synthesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 943-953.	13.7	166

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37	Enzymatic Tailoring of Ornithine in the Biosynthesis of the <i>Rhizobium</i> Cyclic Trihydroxamate Siderophore Vicibactin. <i>Journal of the American Chemical Society</i> , 2009, 131, 15317-15329.	13.7	68
38	Highly efficient molybdenum-based catalysts for enantioselective alkene metathesis. <i>Nature</i> , 2008, 456, 933-937.	27.8	271
39	Total biosynthesis: in vitro reconstitution of polyketide and nonribosomal peptide pathways. <i>Natural Product Reports</i> , 2008, 25, 757.	10.3	187
40	Enantioselective Synthesis of Cyclic Amides and Amines through Mo-Catalyzed Asymmetric Ring-Closing Metathesis. <i>Journal of the American Chemical Society</i> , 2005, 127, 8526-8533.	13.7	96
41	Efficient Catalytic Enantioselective Synthesis of Unsaturated Amines: Preparation of Small- and Medium-Ring Cyclic Amines through Mo-Catalyzed Asymmetric Ring-Closing Metathesis in the Absence of Solvent. <i>Journal of the American Chemical Society</i> , 2002, 124, 6991-6997.	13.7	123
42	Catalytic Asymmetric Ring-Opening Metathesis/Cross Metathesis (AROM/CM) Reactions. Mechanism and Application to Enantioselective Synthesis of Functionalized Cyclopentanes. <i>Journal of the American Chemical Society</i> , 2001, 123, 7767-7778.	13.7	114
43	Tandem Catalytic Asymmetric Ring-Opening Metathesis/Cross Metathesis. <i>Journal of the American Chemical Society</i> , 1999, 121, 11603-11604.	13.7	106