

Jacqueline Shanks

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,337
citations

430874

18
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

1839
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformation of TNT by Aquatic Plants and Plant Tissue Cultures. <i>Environmental Science & Technology</i> , 1997, 31, 266-271.	10.0	271
2	Plant "hairy root"™ culture. <i>Current Opinion in Biotechnology</i> , 1999, 10, 151-155.	6.6	239
3	Quantification of Compartmented Metabolic Fluxes in Developing Soybean Embryos by Employing Biosynthetically Directed Fractional ¹³ C Labeling, Two-Dimensional [¹³ C, ¹ H] Nuclear Magnetic Resonance, and Comprehensive Isotopomer Balancing. <i>Plant Physiology</i> , 2004, 136, 3043-3057.	4.8	152
4	Effect of Elicitor Dosage and Exposure Time on Biosynthesis of Indole Alkaloids by <i>Catharanthus roseus</i> Hairy Root Cultures. <i>Biotechnology Progress</i> , 1998, 14, 442-449.	2.6	145
5	Confirmation of Conjugation Processes during TNT Metabolism by Axenic Plant Roots. <i>Environmental Science & Technology</i> , 1999, 33, 446-452.	10.0	145
6	Transcriptional response of the terpenoid indole alkaloid pathway to the overexpression of ORCA3 along with jasmonic acid elicitation of <i>Catharanthus roseus</i> hairy roots over time. <i>Metabolic Engineering</i> , 2009, 11, 76-86.	7.0	145
7	Production of indole alkaloids by selected hairy root lines of <i>Catharanthus roseus</i> . <i>Biotechnology and Bioengineering</i> , 1993, 41, 581-592.	3.3	134
8	Metabolic engineering of the indole pathway in <i>Catharanthus roseus</i> hairy roots and increased accumulation of tryptamine and serpentine. <i>Metabolic Engineering</i> , 2004, 6, 268-276.	7.0	114
9	The expression of 1-deoxy-d-xylulose synthase and geraniol-10-hydroxylase or anthranilate synthase increases terpenoid indole alkaloid accumulation in <i>Catharanthus roseus</i> hairy roots. <i>Metabolic Engineering</i> , 2011, 13, 234-240.	7.0	113
10	Membrane engineering via trans unsaturated fatty acids production improves <i>Escherichia coli</i> robustness and production of biorenewables. <i>Metabolic Engineering</i> , 2016, 35, 105-113.	7.0	112
11	Determination of metabolic rate-limitations by precursor feeding in <i>Catharanthus roseus</i> hairy root cultures. <i>Journal of Biotechnology</i> , 2000, 79, 137-145.	3.8	106
12	An integrated computational and experimental study for overproducing fatty acids in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2012, 14, 687-704.	7.0	102
13	Evolution for exogenous octanoic acid tolerance improves carboxylic acid production and membrane integrity. <i>Metabolic Engineering</i> , 2015, 29, 180-188.	7.0	95
14	Metabolic Engineering of Plants for Alkaloid Production. <i>Metabolic Engineering</i> , 2002, 4, 41-48.	7.0	94
15	The effects of UV-B stress on the production of terpenoid indole alkaloids in <i>Catharanthus roseus</i> hairy roots. <i>Biotechnology Progress</i> , 2009, 25, 861-865.	2.6	90
16	Characterization of Oxidation Products of TNT Metabolism in Aquatic Phytoremediation Systems of <i>Myriophyllum aquaticum</i> . <i>Environmental Science & Technology</i> , 1999, 33, 3354-3361.	10.0	86
17	Metabolic flux maps comparing the effect of temperature on protein and oil biosynthesis in developing soybean cotyledons. <i>Plant, Cell and Environment</i> , 2008, 31, 506-517.	5.7	85
18	Expression of a feedback-resistant anthranilate synthase in <i>Catharanthus roseus</i> hairy roots provides evidence for tight regulation of terpenoid indole alkaloid levels. <i>Biotechnology and Bioengineering</i> , 2004, 86, 718-727.	3.3	83

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19	Expression of tabersonine 16 α -hydroxylase and 16 α -hydroxytabersonine α -O α -methyltransferase in <i>Catharanthus roseus</i> hairy roots. <i>Biotechnology and Bioengineering</i> , 2018, 115, 673-683.	3.3	20
20	Linear Hydrocarbon Producing Pathways in Plants, Algae and Microbes. <i>Green Energy and Technology</i> , 2012, , 1-11.	0.6	3
21	Phytoremediation and Plant Metabolism of Explosives and Nitroaromatic Compounds. , 2000, , .		3