Jacqueline Shanks

List of Publications by Year
in descending order

21 papers	2,337 citations	430442 18 h-index	752256 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. Environmental Science & Technology, 1997, 31, 266-271.	4.6	271
2	Plant â€˜hairy rootâ€™ culture. Current Opinion in Biotechnology, 1999, 10, 151-155.	3.3	239
3	Quantification of Compartmented Metabolic Fluxes in Developing Soybean Embryos by Employing Biosynthetically Directed Fractional 13C Labeling, Two-Dimensional [13C, 1H] Nuclear Magnetic Resonance, and Comprehensive Isotopomer Balancing. Plant Physiology, 2004, 136, 3043-3057.	2.3	152
4	Effect of Elicitor Dosage and Exposure Time on Biosynthesis of Indole Alkaloids by Catharanthus roseus Hairy Root Cultures. Biotechnology Progress, 1998, 14, 442-449.	1.3	145
5	Confirmation of Conjugation Processes during TNT Metabolism by Axenic Plant Roots. Environmental Science & Technology, 1999, 33, 446-452.	4.6	145
6	Transcriptional response of the terpenoid indole alkaloid pathway to the overexpression of ORCA3 along with jasmonic acid elicitation of Catharanthus roseus hairy roots over time. Metabolic Engineering, 2009, 11, 76-86.	3.6	145
7	Production of indole alkaloids by selected hairy root lines ofCatharanthus roseus. Biotechnology and Bioengineering, 1993, 41, 581-592.	1.7	134
8	Metabolic engineering of the indole pathway in Catharanthus roseus hairy roots and increased accumulation of tryptamine and serpentine. Metabolic Engineering, 2004, 6, 268-276.	3.6	114
9	The expression of 1-deoxy-d-xylulose synthase and geraniol-10-hydroxylase or anthranilate synthase increases terpenoid indole alkaloid accumulation in Catharanthus roseus hairy roots. Metabolic Engineering, 2011, 13, 234-240.	3.6	113
10	Membrane engineering via trans unsaturated fatty acids production improves Escherichia coli robustness and production of biorenewables. Metabolic Engineering, 2016, 35, 105-113.	3.6	112
11	Determination of metabolic rate-limitations by precursor feeding in Catharanthus roseus hairy root cultures. Journal of Biotechnology, 2000, 79, 137-145.	1.9	106
12	An integrated computational and experimental study for overproducing fatty acids in Escherichia coli. Metabolic Engineering, 2012, 14, 687-704.	3.6	102
13	Evolution for exogenous octanoic acid tolerance improves carboxylic acid production and membrane integrity. Metabolic Engineering, 2015, 29, 180-188.	3.6	95
14	Metabolic Engineering of Plants for Alkaloid Production. Metabolic Engineering, 2002, 4, 41-48.	3.6	94
15	The effects of UVâ€B stress on the production of terpenoid indole alkaloids in <i>Catharanthus roseus</i> hairy roots. Biotechnology Progress, 2009, 25, 861-865.	1.3	90
16	Characterization of Oxidation Products of TNT Metabolism in Aquatic Phytoremediation Systems ofMyriophyllumaquaticum. Environmental Science & Technology, 1999, 33, 3354-3361.	4.6	86
17	Metabolic flux maps comparing the effect of temperature on protein and oil biosynthesis in developing soybean cotyledons. Plant, Cell and Environment, 2008, 31, 506-517.	2.8	85
18	Expression of a feedback-resistant anthranilate synthase inCatharanthus roseus hairy roots provides evidence for tight regulation of terpenoid indole alkaloid levels. Biotechnology and Bioengineering, 2004, 86, 718-727.	1.7	83

#	Article	IF	Citations
19	Expression of tabersonine 16â€hydroxylase and 16â€hydroxytabersonineâ€Oâ€methyltransferase in <i>Catharanthus roseus</i> hairy roots. Biotechnology and Bioengineering, 2018, 115, 673-683.	1.7	20
20	Linear Hydrocarbon Producing Pathways in Plants, Algae and Microbes. Green Energy and Technology, 2012, , 1-11.	0.4	3
21	Phytoremediation and Plant Metabolism of Explosives and Nitroaromatic Compounds. , 2000, , .		3