

# Sanja Roje

## List of Publications by Year in descending order

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39  
papers

4,703  
citations

279798

23  
h-index

302126

39  
g-index

42  
all docs

42  
docs citations

42  
times ranked

6623  
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. <i>Science</i> , 2007, 318, 245-250.	12.6	2,354
2	ONE-CARBON METABOLISM IN HIGHER PLANTS. <i>Annual Review of Plant Biology</i> , 2001, 52, 119-137.	14.3	388
3	S-Adenosyl-L-methionine: Beyond the universal methyl group donor. <i>Phytochemistry</i> , 2006, 67, 1686-1698.	2.9	357
4	S-Methylmethionine Plays a Major Role in Phloem Sulfur Transport and Is Synthesized by a Novel Type of Methyltransferase. <i>Plant Cell</i> , 1999, 11, 1485-1497.	6.6	290
5	Vitamin B biosynthesis in plants. <i>Phytochemistry</i> , 2007, 68, 1904-1921.	2.9	156
6	Exploiting mixotrophy for improving productivities of biomass and co-products of microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 450-460.	16.4	96
7	Arabidopsis BPM Proteins Function as Substrate Adaptors to a CULLIN3-Based E3 Ligase to Affect Fatty Acid Metabolism in Plants. <i>Plant Cell</i> , 2013, 25, 2253-2264.	6.6	86
8	Nuclear Localised MORE SULPHUR ACCUMULATION1 Epigenetically Regulates Sulphur Homeostasis in Arabidopsis thaliana. <i>PLoS Genetics</i> , 2016, 12, e1006298.	3.5	81
9	Flavin Nucleotide Metabolism in Plants. <i>Journal of Biological Chemistry</i> , 2008, 283, 30890-30900.	3.4	71
10	Isolation, Characterization, and Functional Expression of cDNAs Encoding NADH-dependent Methylene tetrahydrofolate Reductase from Higher Plants. <i>Journal of Biological Chemistry</i> , 1999, 274, 36089-36096.	3.4	66
11	The Folate Precursor p-Aminobenzoate Is Reversibly Converted to Its Glucose Ester in the Plant Cytosol. <i>Journal of Biological Chemistry</i> , 2003, 278, 20731-20737.	3.4	61
12	One-carbon metabolism in plants: characterization of a plastid serine hydroxymethyltransferase. <i>Biochemical Journal</i> , 2010, 430, 97-105.	3.7	61
13	A dual regulatory role of Arabidopsis calreticulin in plant innate immunity. <i>Plant Journal</i> , 2012, 69, 489-500.	5.7	59
14	An FMN Hydrolase Is Fused to a Riboflavin Kinase Homolog in Plants*. <i>Journal of Biological Chemistry</i> , 2005, 280, 38337-38345.	3.4	46
15	Repression of Sulfate Assimilation Is an Adaptive Response of Yeast to the Oxidative Stress of Zinc Deficiency. <i>Journal of Biological Chemistry</i> , 2009, 284, 27544-27556.	3.4	46
16	Metabolic Engineering in Yeast Demonstrates That S-Adenosylmethionine Controls Flux through the Methylene tetrahydrofolate Reductase Reaction in Vivo. <i>Journal of Biological Chemistry</i> , 2002, 277, 4056-4061.	3.4	45
17	Cloning and Characterization of Mitochondrial 5-Formyltetrahydrofolate Cycloligase from Higher Plants. <i>Journal of Biological Chemistry</i> , 2002, 277, 42748-42754.	3.4	40
18	Folate Biosynthesis in Higher Plants. cDNA Cloning, Heterologous Expression, and Characterization of Dihydroneopterin Aldolases. <i>Plant Physiology</i> , 2004, 135, 103-111.	4.8	40

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19	A directed-overflow and damage-control <i>N</i> -glycosidase in riboflavin biosynthesis. <i>Biochemical Journal</i> , 2015, 466, 137-145.	3.7	38
20	Bacterial Attraction and Quorum Sensing Inhibition in <i>Caenorhabditis elegans</i> Exudates. <i>Journal of Chemical Ecology</i> , 2009, 35, 878-892.	1.8	33
21	Identification and characterization of the missing phosphatase on the riboflavin biosynthesis pathway in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2016, 88, 705-716.	5.7	32
22	<i>Sinorhizobium meliloti</i> Flavin Secretion and Bacteria-Host Interaction: Role of the Bifunctional RibBA Protein. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 437-445.	2.6	25
23	Metabolic engineering of enhanced glycerol-3-phosphate synthesis to increase lipid production in <i>Synechocystis</i> sp. PCC 6803. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6091-6101.	3.6	24
24	Folate polyglutamylation eliminates dependence of activity on enzyme concentration in mitochondrial serine hydroxymethyltransferases from <i>Arabidopsis thaliana</i> . <i>Archives of Biochemistry and Biophysics</i> , 2013, 536, 87-96.	3.0	23
25	root uv-b sensitive Mutants Are Suppressed by Specific Mutations in ASPARTATE AMINOTRANSFERASE2 and by Exogenous Vitamin B6. <i>Molecular Plant</i> , 2011, 4, 759-770.	8.3	22
26	Bacterial and plant HAD enzymes catalyse a missing phosphatase step in thiamin diphosphate biosynthesis. <i>Biochemical Journal</i> , 2016, 473, 157-166.	3.7	22
27	Chilling and Freezing Temperature Stress Differently Influence Glucosinolates Content in <i>Brassica oleracea</i> var. <i>acephala</i> . <i>Plants</i> , 2021, 10, 1305.	3.5	22
28	Identification and Characterization of the Missing Pyrimidine Reductase in the Plant Riboflavin Biosynthesis Pathway. <i>Plant Physiology</i> , 2012, 161, 48-56.	4.8	20
29	An FMN Hydrolase of the Haloacid Dehalogenase Superfamily Is Active in Plant Chloroplasts. <i>Journal of Biological Chemistry</i> , 2011, 286, 42091-42098.	3.4	18
30	Parameterization of a light distribution model for green cell growth of microalgae: <i>Haematococcus pluvialis</i> cultured under red LED lights. <i>Algal Research</i> , 2017, 23, 20-27.	4.6	15
31	The essential role of the phosphorylated pathway of serine biosynthesis in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2013, 8, e27104.	2.4	13
32	Alteration of the Alkaloid Profile in Genetically Modified Tobacco Reveals a Role of Methylenetetrahydrofolate Reductase in Nicotine <i>N</i> -Demethylation. <i>Plant Physiology</i> , 2013, 161, 1049-1060.	4.8	12
33	Methylenetetrahydrofolate reductase modulates methyl metabolism and lignin monomer methylation in maize. <i>Journal of Experimental Botany</i> , 2018, 69, 3963-3973.	4.8	11
34	Catalase protects against nonenzymatic decarboxylations during photorespiration in <i>Arabidopsis thaliana</i> . <i>Plant Direct</i> , 2021, 5, e366.	1.9	11
35	An HPLC-based fluorometric assay for serine hydroxymethyltransferase. <i>Analytical Biochemistry</i> , 2008, 375, 367-369.	2.4	7
36	Characterization of a non-nudix pyrophosphatase points to interplay between flavin and NAD(H) homeostasis in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2018, 13, e0198787.	2.5	6

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37	A high-performance liquid chromatography-based fluorometric method for assaying serine hydroxymethyltransferase toward serine formation. <i>Analytical Biochemistry</i> , 2011, 409, 156-158.	2.4	3
38	An HPLC-based fluorometric assay for cobalamin-independent methionine synthase. <i>Analytical Biochemistry</i> , 2007, 360, 157-159.	2.4	2
39	Chapter Two A genomics approach to plant one-carbon metabolism. <i>Recent Advances in Phytochemistry</i> , 2002, 36, 15-30.	0.5	0