

Tomonori Sonoki

List of Publications by Year in descending order

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42
papers

2,171
citations

361413

20
h-index

302126

39
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43
all docs

43
docs citations

43
times ranked

2809
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical and chemical characterization of biochars derived from different agricultural residues. <i>Biogeosciences</i> , 2014, 11, 6613-6621.	3.3	515
2	Chemical and biochemical characterisation of biochar-blended composts prepared from poultry manure. <i>Bioresource Technology</i> , 2012, 110, 396-404.	9.6	203
3	Biochar influences the microbial community structure during manure composting with agricultural wastes. <i>Science of the Total Environment</i> , 2012, 416, 476-481.	8.0	185
4	Influence of biochar addition on the humic substances of composting manures. <i>Waste Management</i> , 2016, 49, 545-552.	7.4	185
5	Glucose-Free <i>cis</i> -Muconic Acid Production via New Metabolic Designs Corresponding to the Heterogeneity of Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1256-1264.	6.7	113
6	A Novel Tetrahydrofolate-Dependent O -Demethylase Gene Is Essential for Growth of <i>Sphingomonas paucimobilis</i> SYK-6 with Syringate. <i>Journal of Bacteriology</i> , 2004, 186, 2757-2765.	2.2	97
7	Enhancement of protocatechuate decarboxylase activity for the effective production of muconate from lignin-related aromatic compounds. <i>Journal of Biotechnology</i> , 2014, 192, 71-77.	3.8	86
8	Transgenic tobacco expressing fungal laccase promotes the detoxification of environmental pollutants. <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 138-142.	3.6	76
9	Influence of biochar addition on methane metabolism during thermophilic phase of composting. <i>Journal of Basic Microbiology</i> , 2013, 53, 617-621.	3.3	75
10	Beta-ketoadipic acid and muconolactone production from a lignin-related aromatic compound through the protocatechuate 3,4-metabolic pathway. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 652-658.	2.2	62
11	Cloning and Sequencing of the <i>Sphingomonas</i> (<i>Pseudomonas</i>) <i>paucimobilis</i> Gene Essential for the O Demethylation of Vanillate and Syringate. <i>Applied and Environmental Microbiology</i> , 1998, 64, 836-842.	3.1	60
12	Coexistence of Two Different O Demethylation Systems in Lignin Metabolism by <i>Sphingomonas paucimobilis</i> SYK-6: Cloning and Sequencing of the Lignin Biphenyl-Specific O -Demethylase (LigX) Gene. <i>Applied and Environmental Microbiology</i> , 2000, 66, 2125-2132.	3.1	54
13	Expression of a gene for Mn-peroxidase from <i>Coriolus versicolor</i> in transgenic tobacco generates potential tools for phytoremediation. <i>Applied Microbiology and Biotechnology</i> , 2002, 59, 246-251.	3.6	47
14	Detection and characterization of a novel extracellular fungal enzyme that catalyzes the specific and hydrolytic cleavage of lignin guaiacylglycerol beta-aryl ether linkages. <i>FEBS Journal</i> , 2003, 270, 2353-2362.	0.2	42
15	Functional coupling between vanillate-O-demethylase and formaldehyde detoxification pathway. <i>FEMS Microbiology Letters</i> , 2005, 253, 237-242.	1.8	35
16	Engineered Microbial Production of 2-Pyrone-4,6-Dicarboxylic Acid from Lignin Residues for Use as an Industrial Platform Chemical. <i>BioResources</i> , 2016, 11, .	1.0	30
17	Heterologous expression of <i>Trametes versicolor</i> laccase in <i>Saccharomyces cerevisiae</i> . <i>Protein Expression and Purification</i> , 2018, 141, 39-43.	1.3	30
18	Enhanced saccharification of rice straw by overexpression of rice exo-glucanase. <i>Rice</i> , 2012, 5, 14.	4.0	28

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19	Glycosylation of tyrosinase is a determinant of melanin production in cultured melanoma cells. <i>Molecular Medicine Reports</i> , 2013, 8, 818-822.	2.4	26
20	Isolation of a novel platform bacterium for lignin valorization and its application in glucose-free <i>cis</i> -muconate production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 1071-1080.	3.0	24
21	The Efficiency of a Low Dose of Biochar in Enhancing the Aromaticity of Humic-Like Substance Extracted from Poultry Manure Compost. <i>Agronomy</i> , 2019, 9, 248.	3.0	20
22	Hybrid aspen with a transgene for fungal manganese peroxidase is a potential contributor to phytoremediation of the environment contaminated with bisphenol A. <i>Journal of Wood Science</i> , 2007, 53, 541-544.	1.9	18
23	Methoxyl groups of lignin are essential carbon donors in C1 metabolism of <i>Sphingobium</i> sp. SYK-6. <i>Journal of Basic Microbiology</i> , 2009, 49, 98-102.	3.3	17
24	Specific degradation of 2-aryl ether linkage in synthetic lignin (dehydrogenative polymerizate) by bacterial enzymes of <i>Sphingomonas paucimobilis</i> SYK-6 produced in recombinant <i>Escherichia coli</i> . <i>Journal of Wood Science</i> , 2002, 48, 429-433.	1.9	16
25	Accumulation of proanthocyanidins and/or lignin deposition in buff-pigmented soybean seed coats may lead to frequent defective cracking. <i>Planta</i> , 2017, 245, 659-670.	3.2	16
26	Methodological interference of biochar in the determination of extracellular enzyme activities in composting samples. <i>Solid Earth</i> , 2014, 5, 713-719.	2.8	15
27	Comparative Assessment of Biochar Stability Using Multiple Indicators. <i>Agronomy</i> , 2019, 9, 254.	3.0	15
28	Application of fungal laccase fused with cellulose-binding domain to develop low-lignin rice plants. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 616-619.	2.2	14
29	Enhanced production of reducing sugars from transgenic rice expressing exo-glucanase under the control of a senescence-inducible promoter. <i>Transgenic Research</i> , 2014, 23, 531-537.	2.4	14
30	Tetrahydrofolate-dependent vanillate and syringate O-demethylation links tightly to one-carbon metabolic pathway associated with amino acid synthesis and DNA methylation in the lignin metabolism of <i>Sphingomonas paucimobilis</i> SYK-6. <i>Journal of Wood Science</i> , 2002, 48, 434-439.	1.9	12
31	A novel approach to recycle bacterial culture waste for fermentation reuse via a microbial fuel cell-membrane bioreactor system. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1795-1802.	3.4	9
32	Overexpression of a fungal laccase gene induces nondehiscent anthers and morphological changes in flowers of transgenic tobacco. <i>Journal of Wood Science</i> , 2010, 56, 460-469.	1.9	6
33	Enzymatic activity of cell-free extracts from <i>Burkholderia oxyphila</i> OX-01 bio-converts (+)-catechin and (âˆ’)-epicatechin to (+)-taxifolin. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 2473-2479.	1.3	5
34	Expression of a fungal laccase fused with a bacterial cellulose-binding module improves the enzymatic saccharification efficiency of lignocellulose biomass in transgenic <i>Arabidopsis thaliana</i> . <i>Transgenic Research</i> , 2017, 26, 753-761.	2.4	5
35	Water-insoluble material from apple pomace makes changes in intracellular NAD ⁺ /NADH ratio and pyrophosphate content and stimulates fermentative production of hydrogen. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 543-547.	2.2	4
36	<i>Pseudomonas</i> sp. NGC7 as a microbial chassis for glucose-free muconate production from a variety of lignin-derived aromatics and its application to the production from sugar cane bagasse alkaline extract. <i>Bioresource Technology</i> , 2022, 359, 127479.	9.6	4

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37	Close association between the enzymes involved in the lignin metabolic pathway of <i>Sphingomonas paucimobilis</i> SYK-6: interaction of O-demethylase (LigX) and ring fission dioxygenase (LigZ). <i>Journal of Wood Science</i> , 2002, 48, 250-252.	1.9	3
38	Phytoremediation of Bis-Phenol A via Secretory Fungal Peroxidases Produced by Transgenic Plants. , 2012, , .		3
39	Difference of saccharification yields between organs and growth stages in rice. <i>Plant Biotechnology</i> , 2016, 33, 105-110.	1.0	1
40	Effects of molding pressures on physical and chemical changes in Bio-coke produced from wood biomass . <i>Journal of the Society of Materials Engineering for Resources of Japan</i> , 2018, 29, 7-11.	0.2	1
41	Characterization of Biochar-blended Composting of Regional Waste Biomass. <i>Transactions of the Materials Research Society of Japan</i> , 2010, 35, 909-912.	0.2	0
42	Cost-effectiveness Analysis Method for Wood Biomass Power Generation using Logging Residues. <i>Transactions of the Materials Research Society of Japan</i> , 2012, 37, 547-550.	0.2	0