# 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 g-index |
| 43 all docs | 43 docs citations | 43 times ranked | 2809 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pseudomonas 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. Bioresource Technology, 2022, 359, 127479. | 9.6 | 4 |
| 2 | The Efficiency of a Low Dose of Biochar in Enhancing the Aromaticity of Humic-Like Substance Extracted from Poultry Manure Compost. Agronomy, 2019, 9, 248. | 3.0 | 20 |
| 3 | Comparative Assessment of Biochar Stability Using Multiple Indicators. Agronomy, 2019, 9, 254. | 3.0 | 15 |
| 4 | Isolation of a novel platform bacterium for lignin valorization and its application in glucose-free cis,cis-muconate production. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1071-1080. | 3.0 | 24 |
| 5 | Heterologous expression of Trametes versicolor laccase in Saccharomyces cerevisiae. Protein Expression and Purification, 2018, 141, 39-43. | 1.3 | 30 |
| 6 | Glucose-Free cis,cis-Muconic Acid Production via New Metabolic Designs Corresponding to the Heterogeneity of Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 1256-1264. | 6.7 | 113 |
| 7 | Effects of molding pressures on physical and chemical changes in Bio-coke produced from wood biomass . Journal of the Society of Materials Engineering for Resources of Japan, 2018, 29, 7-11. | 0.2 | 1 |
| 8 | Accumulation of proanthocyanidins and/or lignin deposition in buff-pigmented soybean seed coats may lead to frequent defective cracking. Planta, 2017, 245, 659-670. | 3.2 | 16 |
| 9 | Expression of a fungal laccase fused with a bacterial cellulose-binding module improves the enzymatic saccharification efficiency of lignocellulose biomass in transgenic Arabidopsis thaliana. Transgenic Research, 2017, 26, 753-761. | 2.4 | 5 |
| 10 | Difference of saccharification yields between organs and growth stages in rice. Plant Biotechnology, 2016, 33, 105-110. | 1.0 | 1 |
| 11 | Engineered Microbial Production of 2-Pyrone-4,6-Dicarboxylic Acid from Lignin Residues for Use as an Industrial Platform Chemical. BioResources, 2016, 11, . | 1.0 | 30 |
| 12 | Enzymatic activity of cell-free extracts from Burkholderia oxyphila OX-01 bio-converts (+)-catechin and (â˜')-epicatechin to (+)-taxifolin. Bioscience, Biotechnology and Biochemistry, 2016, 80, 2473-2479. | 1.3 | 5 |
| 13 | Influence of biochar addition on the humic substances of composting manures. Waste Management, 2016, 49, 545-552. | 7.4 | 185 |
| 14 | Beta-ketoadipic acid and muconolactone production from a lignin-related aromatic compound through the protocatechuate 3,4-metabolic pathway. Journal of Bioscience and Bioengineering, 2016, 121, 652-658. | 2.2 | 62 |
| 15 | A novel approach to recycle bacterial culture waste for fermentation reuse via a microbial fuel cell-membrane bioreactor system. Bioprocess and Biosystems Engineering, 2015, 38, 1795-1802. | 3.4 | 9 |
| 16 | Water-insoluble material from apple pomace makes changes in intracellular NAD+/NADH ratio and pyrophosphate content and stimulates fermentative production of hydrogen. Journal of Bioscience and Bioengineering, 2015, 119, 543-547. | 2.2 | 4 |
| 17 | Physical and chemical characterization of biochars derived from different agricultural residues. Biogeosciences, 2014, 11, 6613-6621. | 3.3 | 515 |
| 18 | Methodological interference of biochar in the determination of extracellular enzyme activities in composting samples. Solid Earth, 2014, 5, 713-719. | 2.8 | 15 |

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|---|---|---|---|
| 19 | Enhancement of protocatechuate decarboxylase activity for the effective production of muconate from lignin-related aromatic compounds. Journal of Biotechnology, 2014, 192, 71-77. | 3.8 | 86 |
| 20 | Enhanced production of reducing sugars from transgenic rice expressing exo-glucanase under the control of a senescence-inducible promoter. Transgenic Research, 2014, 23, 531-537. | 2.4 | 14 |
| 21 | Application of fungal laccase fused with cellulose-binding domain to develop low-lignin rice plants. Journal of Bioscience and Bioengineering, 2013, 116, 616-619. | 2.2 | 14 |
| 22 | Influence of biochar addition on methane metabolism during thermophilic phase of composting. Journal of Basic Microbiology, 2013, 53, 617-621. | 3.3 | 75 |
| 23 | Glycosylation of tyrosinase is a determinant of melanin production in cultured melanoma cells. Molecular Medicine Reports, 2013, 8, 818-822. | 2.4 | 26 |
| 24 | Enhanced saccharification of rice straw by overexpression of rice exo-glucanase. Rice, 2012, 5, 14. | 4.0 | 28 |
| 25 | Phytoremediation of Bis-Phenol A via Secretory Fungal Peroxidases Produced by Transgenic Plants. , 2012, , . | | 3 |
| 26 | Chemical and biochemical characterisation of biochar-blended composts prepared from poultry manure. Bioresource Technology, 2012, 110, 396-404. | 9.6 | 203 |
| 27 | Biochar influences the microbial community structure during manure composting with agricultural wastes. Science of the Total Environment, 2012, 416, 476-481. | 8.0 | 185 |
| 28 | Cost-effectiveness Analysis Method for Wood Biomass Power Generation using Logging Residues. Transactions of the Materials Research Society of Japan, 2012, 37, 547-550. | 0.2 | 0 |
| 29 | Overexpression of a fungal laccase gene induces nondehiscent anthers and morphological changes in flowers of transgenic tobacco. Journal of Wood Science, 2010, 56, 460-469. | 1.9 | 6 |
| 30 | Characterization of Biochar-blended Composting of Regional Waste Biomass. Transactions of the Materials Research Society of Japan, 2010, 35, 909-912. | 0.2 | 0 |
| 31 | Methoxyl groups of lignin are essential carbon donors in C1 metabolism of Sphingobium  sp. SYKâ€6. Journal of Basic Microbiology, 2009, 49, S98-102. | 3.3 | 17 |
| 32 | Hybrid aspen with a transgene for fungal manganese peroxidase is a potential contributor to phytoremediation of the environment contaminated with bisphenol A. Journal of Wood Science, 2007, 53, 541-544. | 1.9 | 18 |
| 33 | Transgenic tobacco expressing fungal laccase promotes the detoxification of environmental pollutants. Applied Microbiology and Biotechnology, 2005, 67, 138-142. | 3.6 | 76 |
| 34 | Functional coupling between vanillate-O-demethylase and formaldehyde detoxification pathway. FEMS Microbiology Letters, 2005, 253, 237-242. | 1.8 | 35 |
| 35 | A Novel Tetrahydrofolate-Dependent O -Demethylase Gene Is Essential for Growth of Sphingomonas paucimobilis SYK-6 with Syringate. Journal of Bacteriology, 2004, 186, 2757-2765. | 2.2 | 97 |
| 36 | Detection and characterization of a novel extracellular fungal enzyme that catalyzes the specific and hydrolytic cleavage of lignin guaiacylglycerol beta-aryl ether linkages. FEBS Journal, 2003, 270, 2353-2362. | 0.2 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Expression of a gene for Mn-peroxidase from Coriolus versicolor in transgenic tobacco generates potential tools for phytoremediation. Applied Microbiology and Biotechnology, 2002, 59, 246-251. | 3.6 | 47 |
| 38 | Specific degradation ofÎ²-aryl ether linkage in synthetic lignin (dehydrogenative polymerizate) by bacterial enzymes ofSphingomonas paucimobilis SYK-6 produced in recombinantEscherichia coli. Journal of Wood Science, 2002, 48, 429-433. | 1.9 | 16 |
| 39 | Tetrahydrofolate-dependent vanillate and syringateO-demethylation links tightly to one-carbon metabolic pathway associated with amino acid synthesis and DNA methylation in the lignin metabolism ofSphingomonas paucimobilis SYK-6. Journal of Wood Science, 2002, 48, 434-439. | 1.9 | 12 |
| 40 | Close association between the enzymes involved in the lignin metabolic pathway ofSphingomonas paucimobilis SYK-6: interaction ofO-demethylase (LigX) and ring fission dioxygenase (LigZ). Journal of Wood Science, 2002, 48, 250-252. | 1.9 | 3 |
| 41 | Coexistence of Two Different O Demethylation Systems in Lignin Metabolism by Sphingomonas paucimobilis SYK-6: Cloning and Sequencing of the Lignin Biphenyl-Specific O -Demethylase (LigX) Gene. Applied and Environmental Microbiology, 2000, 66, 2125-2132. | 3.1 | 54 |
| 42 | Cloning and Sequencing of the Sphingomonas ( Pseudomonas ) paucimobilis Gene Essential for the O Demethylation of Vanillate and Syringate. Applied and Environmental Microbiology, 1998, 64, 836-842. | 3.1 | 60 |