

Yoshihito Shirai

List of Publications by Year in descending order

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83
papers

2,300
citations

201385

27
h-index

233125

45
g-index

86
all docs

86
docs citations

86
times ranked

2411
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Xylan Autohydrolysis During Subcritical Hydrothermal Pretreatment of Oil Palm Frond Pressed Fiber. <i>Bioenergy Research</i> , 2022, 15, 439-453.	2.2	4
2	Enhancement of Agro-Industrial Waste Composting Process via the Microbial Inoculation: A Brief Review. <i>Agronomy</i> , 2022, 12, 198.	1.3	21
3	Promotion of a green economy with the palm oil industry for biodiversity conservation: A touchstone toward a sustainable bioindustry. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 414-424.	1.1	18
4	Indigenous cellulolytic aerobic and facultative anaerobic bacterial community enhanced the composting of rice straw and chicken manure with biochar addition. <i>Scientific Reports</i> , 2022, 12, 5930.	1.6	8
5	Adsorption mechanism and effectiveness of phenol and tannic acid removal by biochar produced from oil palm frond using steam pyrolysis. <i>Environmental Pollution</i> , 2021, 269, 116197.	3.7	57
6	Ecotoxicological assessment of palm oil mill effluent final discharge by zebrafish (<i>Danio rerio</i>) embryonic assay. <i>Environmental Pollution</i> , 2021, 277, 116780.	3.7	10
7	Effect of oil palm biomass cellulosic content on nanopore structure and adsorption capacity of biochar. <i>Bioresource Technology</i> , 2021, 332, 125070.	4.8	55
8	Study of Social Cost Benefit Analysis for Biodiesel Conversion Project that Features Collaboration with Employment Support Facilities for People with Disabilities and their Local Government. <i>Journal of the Japan Society of Material Cycles and Waste Management</i> , 2021, 32, 157-166.	0.1	0
9	Toxicity identification and evaluation of palm oil mill effluent and its effects on the planktonic crustacean <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2020, 710, 136277.	3.9	16
10	Carbon monoxide reduction in the flue gas during biochar production from oil palm empty fruit bunch. <i>Journal of Cleaner Production</i> , 2020, 258, 120580.	4.6	9
11	Assessment of Municipal Solid Waste Generation in Universiti Putra Malaysia and Its Potential for Green Energy Production. <i>Sustainability</i> , 2019, 11, 3909.	1.6	19
12	A highly thermostable crude endoglucanase produced by a newly isolated <i>Thermobifida fusca</i> strain UPMC 901. <i>Scientific Reports</i> , 2019, 9, 13526.	1.6	19
13	Surface modification for nano-cellulose fiber through vapor-phase-assisted surface polymerization. <i>Journal of Polymer Science Part A</i> , 2019, 57, 2575-2580.	2.5	3
14	Sustainability of Oil Palm Biomass-Based Products. , 2019, , 207-242.		2
15	Oil Palm Biomass Biorefinery for Future Bioeconomy in Malaysia. , 2019, , 265-285.		5
16	Dynamics of Microbial Populations Responsible for Biodegradation during the Full-Scale Treatment of Palm Oil Mill Effluent. <i>Microbes and Environments</i> , 2019, 34, 121-128.	0.7	15
17	Oil Palm Biomass Biorefinery for Sustainable Production of Renewable Materials. <i>Biotechnology Journal</i> , 2019, 14, e1800394.	1.8	28
18	A one-step self-sustained low temperature carbonization of coconut shell biomass produced a high specific surface area biochar-derived nano-adsorbent. <i>Waste Management and Research</i> , 2019, 37, 551-555.	2.2	22

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19	Life Cycle Assessment for Bioethanol Production from Oil Palm Frond Juice in an Oil Palm Based Biorefinery. Sustainability, 2019, 11, 6928.	1.6	20
20	Simple Manufacture of Surface-Modified Nanolignocellulose Fiber via Vapor-Phase-Assisted Surface Polymerization. ACS Omega, 2018, 3, 4545-4550.	1.6	6
21	Inhibitory Effect of Additives on Cellulase Adsorption Mediated by Hydrophobic Interaction. Journal of the Japan Petroleum Institute, 2018, 61, 357-360.	0.4	2
22	Seeking key microorganisms for enhancing methane production in anaerobic digestion of waste sewage sludge. Applied Microbiology and Biotechnology, 2018, 102, 5323-5334.	1.7	34
23	Bacterial community shift for monitoring the co-composting of oil palm empty fruit bunch and palm oil mill effluent anaerobic sludge. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 869-877.	1.4	25
24	Evaluation of biomass energy potential towards achieving sustainability in biomass energy utilization in Sabah, Malaysia. Biomass and Bioenergy, 2017, 97, 149-154.	2.9	48
25	Design of biodegradable PCL/PI films as a joining tape for grafting plant. Environmental Technology (United Kingdom), 2017, 38, 2362-2372.	1.2	3
26	Reduction of residual pollutants from biologically treated palm oil mill effluent final discharge by steam activated bioadsorbent from oil palm biomass. Journal of Cleaner Production, 2017, 141, 122-127.	4.6	58
27	Dynamically controlled fibrillation under combination of ionic liquid with mechanical grinding. Journal of Applied Polymer Science, 2017, 134, .	1.3	13
28	Co-composting of Municipal Sewage Sludge and Landscaping Waste: A Pilot Scale Study. Waste and Biomass Valorization, 2017, 8, 695-705.	1.8	15
29	Superheated Steam Treatment of Oil Palm Mesocarp Fiber Improved the Properties of Fiber-Polypropylene Biocomposite. BioResources, 2016, 12, .	0.5	7
30	Characterization and application of bioactive compounds in oil palm mesocarp fiber superheated steam condensate as an antifungal agent. RSC Advances, 2016, 6, 84672-84683.	1.7	16
31	Impact of different antibiotics on methane production using waste-activated sludge: mechanisms and microbial community dynamics. Applied Microbiology and Biotechnology, 2016, 100, 9355-9364.	1.7	48
32	Pilot-scale open fermentation of food waste to produce lactic acid without inoculum addition. RSC Advances, 2016, 6, 104354-104358.	1.7	14
33	An Investigation into the Role and Effects of the Organic Waste Composting Takakura Composting Method in Indonesia. Journal of the Japan Society of Material Cycles and Waste Management, 2016, 27, 84-91.	0.1	0
34	Successful scaling-up of self-sustained pyrolysis of oil palm biomass under pool-type reactor. Waste Management and Research, 2016, 34, 176-180.	2.2	12
35	Case study: Preliminary assessment of integrated palm biomass biorefinery for bioethanol production utilizing non-food sugars from oil palm frond petiole. Energy Conversion and Management, 2016, 108, 233-242.	4.4	20
36	A Social Experiment on Providing Comprehensive Explanations to the Public regarding Environmental Technologies : Case Study on a Metals Recovery Technology. Journal of the Japan Society of Material Cycles and Waste Management, 2015, 26, 104-116.	0.1	0

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37	Improved yield and higher heating value of biochar from oil palm biomass at low retention time under self-sustained carbonization. <i>Journal of Cleaner Production</i> , 2015, 104, 475-479.	4.6	36
38	Utilization of felled oil palm trunk: Trunk sections storage on oil palm sap production. , 2015, , .		0
39	Sustainable and integrated palm oil biorefinery concept with value-addition of biomass and zero emission system. <i>Journal of Cleaner Production</i> , 2015, 91, 96-99.	4.6	46
40	Pyrosequencing analysis of microbial community and food-borne bacteria on restaurant cutting boards collected in Seri Kembangan, Malaysia, and their correlation with grades of food premises. <i>International Journal of Food Microbiology</i> , 2015, 200, 57-65.	2.1	16
41	Self-sustained carbonization of oil palm biomass produced an acceptable heating value charcoal with low gaseous emission. <i>Journal of Cleaner Production</i> , 2015, 89, 257-261.	4.6	25
42	Case study for a palm biomass biorefinery utilizing renewable non-food sugars from oil palm frond for the production of poly(3-hydroxybutyrate) bioplastic. <i>Journal of Cleaner Production</i> , 2015, 87, 284-290.	4.6	48
43	Enhancement of compatibility based on vapor-phase-assisted surface polymerization (VASP) method for polymer composites with agricultural wastes. <i>Composite Interfaces</i> , 2014, 21, 773-785.	1.3	4
44	Oil Palm Frond Juice as Future Fermentation Substrate: A Feasibility Study. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	18
45	Treatment of effluents from palm oil mill process to achieve river water quality for reuse as recycled water in a zero emission system. <i>Journal of Cleaner Production</i> , 2014, 67, 58-61.	4.6	45
46	Efficient utilization of oil palm frond for bio-based products and biorefinery. <i>Journal of Cleaner Production</i> , 2014, 65, 252-260.	4.6	52
47	Synthesis of Bio-based Monomer from Vegetable Oil Fatty Acids and Design of Functionalized Greener Polyester. <i>Chemistry Letters</i> , 2014, 43, 1517-1519.	0.7	4
48	Sustainable production of polyhydroxyalkanoates from renewable oil-palm biomass. <i>Biomass and Bioenergy</i> , 2013, 50, 1-9.	2.9	94
49	Improved economic viability of integrated biogas energy and compost production for sustainable palm oil mill management. <i>Journal of Cleaner Production</i> , 2013, 44, 1-7.	4.6	92
50	Indigenous cellulolytic and hemicellulolytic bacteria enhanced rapid co-composting of lignocellulose oil palm empty fruit bunch with palm oil mill effluent anaerobic sludge. <i>Bioresource Technology</i> , 2013, 147, 632-635.	4.8	60
51	A Simple Synthetic Route for the Preparation of Tetramethylglycolide from Lactic Acid. <i>Chemistry Letters</i> , 2013, 42, 159-161.	0.7	4
52	Economic analysis of biogas and compost projects in a palm oil mill with clean development mechanism in Malaysia. <i>Environment, Development and Sustainability</i> , 2012, 14, 1065-1079.	2.7	30
53	Intracellular polyhydroxyalkanoates recovery by cleaner halogen-free methods towards zero emission in the palm oil mill. <i>Journal of Cleaner Production</i> , 2012, 37, 353-360.	4.6	25
54	Enhanced Biogas Production from Palm Oil Mill Effluent Supplemented with Untreated Oil Palm Empty Fruit Bunch Biomass with a Change in the Microbial Community. <i>Japan Journal of Food Engineering</i> , 2012, 13, 37-41.	0.1	4

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55	Renewable sugars from oil palm frond juice as an alternative novel fermentation feedstock for value-added products. <i>Bioresource Technology</i> , 2012, 110, 566-571.	4.8	94
56	Production of L(+)-Lactic Acid from Mixed Acid and Alkali Hydrolysate of Brown Seaweed. <i>Food Science and Technology Research</i> , 2011, 17, 155-160.	0.3	16
57	Visualization of Core-Shell PHBV Granules of Wild Type <i>Comamonas</i> sp. EB172 <i>In Vivo</i> under Transmission Electron Microscope. <i>International Journal of Polymer Analysis and Characterization</i> , 2011, 16, 228-238.	0.9	11
58	Polyhydroxyalkanoate production from anaerobically treated palm oil mill effluent by new bacterial strain <i>Comamonas</i> sp. EB172. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 767-774.	1.7	41
59	Turning waste to wealth-biodegradable plastics polyhydroxyalkanoates from palm oil mill effluent – a Malaysian perspective. <i>Journal of Cleaner Production</i> , 2010, 18, 1393-1402.	4.6	109
60	Synthesis, Characterization, and Structural Properties of Intracellular Copolyester Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Produced by <i>Comamonas</i> sp. EB 172 from Renewable Resource. <i>International Journal of Polymer Analysis and Characterization</i> , 2010, 15, 329-340.	0.9	15
61	Enzymatic hydrolysis of food waste and ethanol fermentation. <i>International Journal of Energy Research</i> , 2009, 33, 164-172.	2.2	115
62	Anhydride production as an additional mechanism of poly(3-hydroxybutyrate) pyrolysis. <i>Journal of Applied Polymer Science</i> , 2009, 111, 323-328.	1.3	24
63	Removal of Suspended Solid from Kitchen Garbage Saccharification Solution by Freezing and Thawing Technique. <i>Japan Journal of Food Engineering</i> , 2009, 10, 63-68.	0.1	1
64	Selective Depolymerization of Poly-L-lactic Acid into L,L-Lactide from Blends with Polystyrene. <i>Kobunshi Ronbunshu</i> , 2007, 64, 745-750.	0.2	10
65	Repeated-batch Ethanol Fermentation of Kitchen Refuse by Acid-tolerant Flocculating Yeast Under the Non-sterilized Condition. <i>Japan Journal of Food Engineering</i> , 2007, 8, 275-280.	0.1	6
66	Preferential Substrate Utilization by <i>Propionibacterium shermanii</i> in Kitchen Refuse Medium. <i>Japan Journal of Food Engineering</i> , 2005, 6, 37-44.	0.1	5
67	Feedstock Recycling of Flame-Resisting Poly(lactic acid)/Aluminum Hydroxide Composite to L-lactide. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 1433-1437.	1.8	91
68	Baseline study of methane emission from open digesting tanks of palm oil mill effluent treatment. <i>Chemosphere</i> , 2005, 59, 1575-1581.	4.2	128
69	Enhancement of Lactic Acid Production from Kitchen Refuse by <i>Rhizopus oryzae</i> KPS 106 Immobilized on Loofa Sponge. <i>Japan Journal of Food Engineering</i> , 2005, 6, 121-131.	0.1	2
70	Sodium Succinate Recovery and Purification from Kitchen-refuse Fermentation Broth by Salting-out Precipitation Using Antisolvent. <i>Japan Journal of Food Engineering</i> , 2005, 6, 279-287.	0.1	2
71	Kitchen Refuse: a Novel Substrate for L (+) -Lactic Acid Production by <i>Rhizopus oryzae</i> in Submerged Fermentation. <i>Japan Journal of Food Engineering</i> , 2005, 6, 45-52.	0.1	6
72	Effect of Sodium Chloride on Freeze Concentration of Food Components by Freezing and Thawing Technique. <i>Japan Journal of Food Engineering</i> , 2004, 5, 97-103.	0.1	14

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73	Preparation and Characterization of Activated Carbons from Wastes Generated during Lactic Acid Fermentation from Garbage. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 889-894.	0.3	1
74	Reduction of Methane Released from Palm Oil Mill Lagoon in Malaysia and Its Countermeasures. Mitigation and Adaptation Strategies for Global Change, 2003, 8, 237-252.	1.0	38
75	Making Plastics from Garbage.. <i>Journal of Industrial Ecology</i> , 2003, 7, 63-74.	2.8	84
76	Effect of pH Adjustment on Preservation of Kitchen Waste Used for Producing Lactic Acid. <i>Water, Air, and Soil Pollution</i> , 2003, 144, 405-418.	1.1	22
77	Control of racemization for feedstock recycling of PLLA. <i>Green Chemistry</i> , 2003, 5, 575-579.	4.6	62
78	Effects of Single Food Components on Freeze Concentration by Freezing and Thawing Technique. <i>Japan Journal of Food Engineering</i> , 2003, 4, 77-83.	0.1	34
79	Continuous Production of Organic Acids from Palm Oil Mill Effluent with Sludge Recycle by the Freezing-Thawing Method. <i>Journal of Chemical Engineering of Japan</i> , 2003, 36, 707-710.	0.3	23
80	A Proposal for Zero Emission from Palm Oil Industry Incorporating the Production of Polyhydroxyalkanoates from Palm Oil Mill Effluent.. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 9-14.	0.3	37
81	Freezing and Thawing Technique for the Removal of Suspended Solids and Concentration of Palm Oil Mill Effluent (POME).. <i>Journal of Chemical Engineering of Japan</i> , 2002, 35, 1017-1019.	0.3	9
82	Periodic change in DO concentration for efficient poly- β -hydroxy-butyrate production using temperature-inducible recombinant <i>Escherichia coli</i> with proteome analysis. <i>Biotechnology and Bioprocess Engineering</i> , 2002, 7, 281-288.	1.4	2
83	Economic Analysis on Production of Bacterial Polyhydroxyalkanoates from Palm Oil Mill Effluent.. <i>Journal of Chemical Engineering of Japan</i> , 1997, 30, 751-755.	0.3	11