

Widya Fatriasari

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,139
citations

471509

17
h-index

434195

31
g-index

53
all docs

53
docs citations

53
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on natural fibers for development of eco-friendly bio-composite: characteristics, and utilizations. <i>Journal of Materials Research and Technology</i> , 2021, 13, 2442-2458.	5.8	262
2	Recent Developments in Lignin- and Tannin-Based Non-Isocyanate Polyurethane Resins for Wood Adhesives—A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4242.	2.5	83
3	Recent developments in lignin modification and its application in lignin-based green composites: A review. <i>Polymer Composites</i> , 2022, 43, 4848-4865.	4.6	50
4	Recent Advances in the Development of Fire-Resistant Biocomposites—A Review. <i>Polymers</i> , 2022, 14, 362.	4.5	47
5	Lignin as Green Filler in Polymer Composites: Development Methods, Characteristics, and Potential Applications. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-33.	1.8	43
6	A Comprehensive Review on Natural Fibers: Technological and Socio-Economical Aspects. <i>Polymers</i> , 2021, 13, 4280.	4.5	42
7	Lignin as an Active Biomaterial: A Review. <i>Jurnal Sylva Lestari</i> , 2021, 9, 1.	0.5	39
8	Bio-Based Polyurethane Resins Derived from Tannin: Source, Synthesis, Characterisation, and Application. <i>Forests</i> , 2021, 12, 1516.	2.1	30
9	Optimization of Microwave-Assisted Oxalic Acid Pretreatment of Oil Palm Empty Fruit Bunch for Production of Fermentable Sugars. <i>Waste and Biomass Valorization</i> , 2020, 11, 2673-2687.	3.4	29
10	A recent advancement on preparation, characterization and application of nanolignin. <i>International Journal of Biological Macromolecules</i> , 2022, 200, 303-326.	7.5	29
11	The physical, mechanical and durability properties of sorghum bagasse particleboard by layering surface treatment. <i>Journal of the Indian Academy of Wood Science</i> , 2017, 14, 1-8.	0.9	27
12	The Kraft Pulp And Paper Properties of Sweet Sorghum Bagasse (<i>Sorghum bicolor</i> L Moench). <i>Journal of Engineering and Technological Sciences</i> , 2015, 47, 149-159.	0.6	26
13	Physical and Chemical Properties of Acacia mangium Lignin Isolated from Pulp Mill Byproduct for Potential Application in Wood Composites. <i>Polymers</i> , 2022, 14, 491.	4.5	25
14	Microwave Assisted Acid Pretreatment of Oil Palm Empty Fruit Bunches (EFB) to Enhance Its Fermentable Sugar Production. <i>Waste and Biomass Valorization</i> , 2017, 8, 379-391.	3.4	24
15	The Effect of Lignin Content and Freeness of Pulp on the Bioethanol Productivity of Jabon Wood. <i>Waste and Biomass Valorization</i> , 2016, 7, 1141-1146.	3.4	22
16	Microwave-assisted acid pretreatment for enhancing enzymatic saccharification of sugarcane trash. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3037-3054.	4.6	22
17	Optimization of maleic acid pretreatment of oil palm empty fruit bunches (OPEFB) using response surface methodology to produce reducing sugars. <i>Industrial Crops and Products</i> , 2021, 171, 113971.	5.2	22
18	Disruption of Oil Palm Empty Fruit Bunches by Microwave-assisted Oxalic Acid Pretreatment. <i>Journal of Mathematical and Fundamental Sciences</i> , 2017, 49, 244.	0.5	20

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19	The Improvement of Sugar and Bioethanol Production of Oil Palm Empty Fruit Bunches (Elaeis Tj ETQq1 1 0.784314.rgBT /Oyerlock 10	1.0	19
20	PLA/metal oxide biocomposites for antimicrobial packaging application. Polymer-Plastics Technology and Materials, 2020, 59, 1332-1342.	1.3	19
21	The characteristic changes of betung bamboo (<i>Dendrocalamus asper</i>) pretreated by fungal pretreatment. International Journal of Renewable Energy Development, 2014, 3, 133-143.	2.4	18
22	Lignin and Cellulose Changes of Betung Bamboo (<i>Dendrocalamus asper</i>) pretreated Microwave Heating. International Journal on Advanced Science, Engineering and Information Technology, 2016, 6, 187.	0.4	18
23	Novel antimicrobial bioplastic based on PLA-chitosan by addition of TiO ₂ and ZnO. Journal of Environmental Health Science & Engineering, 2021, 19, 415-425.	3.0	17
24	Enzymatic Hydrolysis Performance of Biomass by the Addition of a Lignin Based Biosurfactant. Journal of the Korean Wood Science and Technology, 2020, 48, 651-665.	3.0	14
25	Antimicrobial <i>Imperata cylindrica</i> paper coated with anionic nanocellulose crosslinked with cationic ions. International Journal of Biological Macromolecules, 2020, 164, 892-901.	7.5	13
26	Pretreatment of Oil Palm Empty Fruit Bunch (OPEFB) at Bench-Scale High Temperature-Pressure Steam Reactor for Enhancement of Enzymatic Saccharification. International Journal of Renewable Energy Development, 2021, 10, 157-169.	2.4	12
27	Physical and Mechanical Properties of Three-layer Particleboards Bonded With UF and UMF Adhesives. Journal of the Korean Wood Science and Technology, 2017, 45, 787-796.	3.0	12
28	Effect of Particle Pre-Treatment on Properties of <i>Jatropha</i> Fruit Hulls Particleboard. Journal of the Korean Wood Science and Technology, 2018, 46, 155-165.	3.0	12
29	Response surface methodology for enzymatic hydrolysis optimization of jabon alkaline pulp with Tween 80 surfactant addition. Biomass Conversion and Biorefinery, 2022, 12, 2165-2174.	4.6	11
30	Wood Chemical Compositions of Raru Species Originating from Central Tapanuli, North Sumatra, Indonesia: Effect of Differences in Wood Species and Log Positions. Journal of the Korean Wood Science and Technology, 2021, 49, 416-429.	3.0	11
31	Reducing sugar production of sweet sorghum bagasse kraft pulp. AIP Conference Proceedings, 2017, , .	0.4	10
32	Post-treatment Effect of Particleboard on Dimensional Stability and Durability Properties of Particleboard Made From Sorghum Bagasse. IOP Conference Series: Materials Science and Engineering, 2017, 180, 012015.	0.6	9
33	Microwave Assisted-Acid Hydrolysis of Jabon Kraft Pulp. Waste and Biomass Valorization, 2019, 10, 1503-1517.	3.4	9
34	Ambient curable natural rubber latex adhesive cross-linked with polymeric isocyanate for bonding wood. Polymer Bulletin, 0, , 1.	3.3	9
35	Enhancing the performance of natural rubber latex with polymeric isocyanate as cold-pressing and formaldehyde free adhesive for plywood. Journal of Adhesion, 2023, 99, 58-73.	3.0	8
36	Bio-Polyurethane Resins Derived from Liquid Fractions of Lignin for the Modification of Ramie Fibers. Jurnal Sylva Lestari, 2021, 9, 223.	0.5	7

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37	Physical and Mechanical Properties of Local <i>Styrax</i> Woods from North Tapanuli in Indonesia. <i>Journal of the Korean Wood Science and Technology</i> , 2016, 44, 539-550.	3.0	7
38	Characterization of Indonesian Banana Species as an Alternative Cellulose Fibers. <i>Journal of Natural Fibers</i> , 2022, 19, 14396-14413.	3.1	7
39	Digestibility of Betung Bamboo Fiber Following Fungal Pretreatment. <i>Makara Journal of Technology</i> , 2014, 18, 51.	0.3	6
40	Effect of reaction time on the molecular weight distribution of polyurethane modified epoxy and its properties. <i>Journal of Materials Research and Technology</i> , 2022, 19, 2204-2214.	5.8	6
41	Review on Bamboo Utilization as Biocomposites, Pulp and Bioenergy. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 141, 012039.	0.3	5
42	Optimizing the Synthesis of Lignin Derivatives from <i>Acacia mangium</i> to Improve the Enzymatic Hydrolysis of Kraft Pulp Sorghum Bagasse. <i>International Journal of Renewable Energy Development</i> , 2020, 9, 227-235.	2.4	5
43	Short Communication: Variation in chemical constituent of <i>Styrax sumatrana</i> wood growing at different cultivation site in North Sumatra, Indonesia. <i>Biodiversitas</i> , 2019, 20, 448-452.	0.6	5
44	Thermal properties of polylactic acid/zinc oxide biocomposite films. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
45	Utilization of Lignin from the Waste of Bioethanol Production as a Mortar Additive. <i>Jurnal Sylva Lestari</i> , 2020, 8, 326.	0.5	4
46	Effect of Several Exterior Adhesive Types on Dimensional Stability of Bamboo Oriented Particleboard. <i>Korean Journal of Materials Research</i> , 2019, 29, 277-281.	0.2	4
47	Effect of particle treatment and adhesive type on physical, mechanical, and durability properties of particleboard made from Sorghum Bagasse. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 126, 012016.	0.3	3
48	The effect of amphiphilic lignin derivatives addition on enzymatic hydrolysis performance of kraft pulp from sorghum bagasse. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 141, 012005.	0.3	3
49	Anatomical observation and characterization on basic properties of Agarwood (<i>Gaharu</i>) as an Appendix II CITES. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 374, 012062.	0.3	3
50	Digestibility of Betung Bamboo Fiber Following Fungal Pretreatment. <i>Makara Journal of Technology</i> , 2014, 18, 51.	0.3	3
51	Fiber Disruption of Betung Bamboo (<i>Dendrocalamus asper</i>) by Combined Fungal and Microwave Pretreatment. <i>Biotropia</i> , 2016, 22, 81-94.	0.0	2
52	Optimization of application of natural rubber based API adhesive for the production of laminated wood. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 374, 012007.	0.3	2
53	Pretreatment of Oil Palm Empty Fruit Bunch (OPEFB) at Bench-Scale High Temperature-Pressure Steam Reactor for Enhancement of Enzymatic Saccharification. <i>International Journal of Renewable Energy Development</i> , 2020, , .	2.4	0