

Muhammad Adly Rahandi Lubis

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,095
citations

331259

21
h-index

454577

30
g-index

48
all docs

48
docs citations

48
times ranked

325
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Recent Developments in Lignin- and Tannin-Based Non-Isocyanate Polyurethane Resins for Wood Adhesives—A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4242. | 1.3 | 83 |
| 2 | Recent progress in ultra-low formaldehyde emitting adhesive systems and formaldehyde scavengers in wood-based panels: a review. <i>Wood Material Science and Engineering</i> , 2023, 18, 763-782. | 1.1 | 80 |
| 3 | Converting crystalline thermosetting urea—formaldehyde resins to amorphous polymer using modified nanoclay. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 87, 78-89. | 2.9 | 50 |
| 4 | Recent developments in lignin modification and its application in lignin-based green composites: A review. <i>Polymer Composites</i> , 2022, 43, 4848-4865. | 2.3 | 50 |
| 5 | Recent Advances in the Development of Fire-Resistant Biocomposites—A Review. <i>Polymers</i> , 2022, 14, 362. | 2.0 | 47 |
| 6 | 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. | 1.0 | 43 |
| 7 | A Comprehensive Review on Natural Fibers: Technological and Socio-Economical Aspects. <i>Polymers</i> , 2021, 13, 4280. | 2.0 | 42 |
| 8 | Lignin as an Active Biomaterial: A Review. <i>Jurnal Sylva Lestari</i> , 2021, 9, 1. | 0.2 | 39 |
| 9 | Modification of urea-formaldehyde resin adhesives with blocked isocyanates using sodium bisulfite. <i>International Journal of Adhesion and Adhesives</i> , 2017, 73, 118-124. | 1.4 | 33 |
| 10 | Enhancing Thermal and Mechanical Properties of Ramie Fiber via Impregnation by Lignin-Based Polyurethane Resin. <i>Materials</i> , 2021, 14, 6850. | 1.3 | 33 |
| 11 | Modification of urea-formaldehyde resin adhesives with oxidized starch using blocked pMDI for plywood. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 2667-2681. | 1.4 | 32 |
| 12 | Bio-Based Polyurethane Resins Derived from Tannin: Source, Synthesis, Characterisation, and Application. <i>Forests</i> , 2021, 12, 1516. | 0.9 | 30 |
| 13 | Hydrolytic Removal of Cured Urea—Formaldehyde Resins in Medium-Density Fiberboard for Recycling. <i>Journal of Wood Chemistry and Technology</i> , 2018, 38, 1-14. | 0.9 | 29 |
| 14 | Influence of Initial Molar Ratios on the Performance of Low Molar Ratio Urea-Formaldehyde Resin Adhesives. <i>Journal of the Korean Wood Science and Technology</i> , 2020, 48, 136-153. | 0.8 | 28 |
| 15 | The properties of particleboard composites made from three sorghum (<i>Sorghum bicolor</i>) accessions using maleic acid adhesive. <i>Chemosphere</i> , 2022, 290, 133163. | 4.2 | 28 |
| 16 | Performance of Hybrid Adhesives of Blocked-pMDI/Melamine-Urea-Formaldehyde Resins for the Surface Lamination on Plywood. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 200-209. | 0.8 | 27 |
| 17 | Enhancing the performance of low molar ratio urea—formaldehyde resin adhesives via in-situ modification with intercalated nanoclay. <i>Journal of Adhesion</i> , 2021, 97, 1271-1290. | 1.8 | 26 |
| 18 | Analysis of the hydrolysates from cured and uncured urea-formaldehyde (UF) resins with two F/U mole ratios. <i>Holzforschung</i> , 2018, 72, 759-768. | 0.9 | 25 |

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|----|--|-----|-----------|
| 19 | Microencapsulation of polymeric isocyanate for the modification of urea-formaldehyde resins. <i>International Journal of Adhesion and Adhesives</i> , 2020, 100, 102599. | 1.4 | 25 |
| 20 | 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. | 2.0 | 25 |
| 21 | Effects of recycled fiber content on the properties of medium density fiberboard. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 1515-1526. | 1.3 | 24 |
| 22 | Effect of Synthesis Method and Melamine Content of Melamine-Urea-Formaldehyde Resins on Bond-Line Features in Plywood. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 579-586. | 0.8 | 22 |
| 23 | Tuning of adhesion and disintegration of oxidized starch adhesives for the recycling of medium density fiberboard. <i>BioResources</i> , 2020, 15, 5156-5178. | 0.5 | 21 |
| 24 | Influence of Lignin Content and Pressing Time on Plywood Properties Bonded with Cold-Setting Adhesive Based on Poly (Vinyl Alcohol), Lignin, and Hexamine. <i>Polymers</i> , 2022, 14, 2111. | 2.0 | 21 |
| 25 | Effects of surface laminate type and recycled fiber content on properties of three-layer medium density fiberboard. <i>Wood Material Science and Engineering</i> , 2020, 15, 163-171. | 1.1 | 20 |
| 26 | In-situ modification of low molar ratio urea-formaldehyde resins with cellulose nanofibrils for plywood. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 2452-2465. | 1.4 | 20 |
| 27 | Modification of Oxidized Starch Polymer with Nanoclay for Enhanced Adhesion and Free Formaldehyde Emission of Plywood. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2993-3003. | 2.4 | 17 |
| 28 | Thermal and mechanical performance of ramie fibers modified with polyurethane resins derived from acacia mangium bark tannin. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2413-2427. | 2.6 | 17 |
| 29 | Modification of Ramie Fiber via Impregnation with Low Viscosity Bio-Polyurethane Resins Derived from Lignin. <i>Polymers</i> , 2022, 14, 2165. | 2.0 | 17 |
| 30 | Performance of eco-friendly particleboard from agro-industrial residues bonded with formaldehyde-free natural rubber latex adhesive for interior applications. <i>Polymer Composites</i> , 2022, 43, 2222-2233. | 2.3 | 15 |
| 31 | Influence of different hot-pressing conditions on the performance of eco-friendly jabon plywood bonded with citric acid adhesive. <i>Wood Material Science and Engineering</i> , 2022, 17, 400-409. | 1.1 | 14 |
| 32 | Effects of nanoclay modification with transition metal ion on the performance of urea-formaldehyde resin adhesives. <i>Polymer Bulletin</i> , 2021, 78, 2375-2388. | 1.7 | 13 |
| 33 | Simultaneous Improvement of Formaldehyde Emission and Adhesion of Medium-Density Fiberboard Bonded with Low-Molar Ratio Urea-Formaldehyde Resins Modified with Nanoclay. <i>Journal of the Korean Wood Science and Technology</i> , 2021, 49, 453-461. | 0.8 | 12 |
| 34 | Tailoring of oxidized starch's adhesion using crosslinker and adhesion promotor for the recycling of fiberboards. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47966. | 1.3 | 9 |
| 35 | Ambient curable natural rubber latex adhesive cross-linked with polymeric isocyanate for bonding wood. <i>Polymer Bulletin</i> , 0, , 1. | 1.7 | 9 |
| 36 | Effect of cold-water treatment and hydrothermal carbonization of oil-palm-trunk fibers on compatibility with cement for the preparation of cement-bonded particleboard. <i>Wood Material Science and Engineering</i> , 2022, 17, 979-988. | 1.1 | 8 |

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|----|--|-----|-----------|
| 37 | Enhancing the performance of natural rubber latex with polymeric isocyanate as cold-pressing and formaldehyde free adhesive for plywood. <i>Journal of Adhesion</i> , 2023, 99, 58-73. | 1.8 | 8 |
| 38 | Conversion of agro-industrial wastes of sorghum bagasse and molasses into lightweight roof tile composite. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1001-1015. | 2.9 | 8 |
| 39 | Bio-Polyurethane Resins Derived from Liquid Fractions of Lignin for the Modification of Ramie Fibers. <i>Jurnal Sylva Lestari</i> , 2021, 9, 223. | 0.2 | 7 |
| 40 | Characterization of Indonesian Banana Species as an Alternative Cellulose Fibers. <i>Journal of Natural Fibers</i> , 2022, 19, 14396-14413. | 1.7 | 7 |
| 41 | A Comprehensive Review on Process and Technological Aspects of Wood-Plastic Composites. <i>Jurnal Sylva Lestari</i> , 2021, 9, 329. | 0.2 | 6 |
| 42 | The Removal of Cured Urea-Formaldehyde Adhesive towards Sustainable Medium Density Fiberboard Production: A Review. <i>Jurnal Sylva Lestari</i> , 2021, 9, 23. | 0.2 | 6 |
| 43 | Modification of nanoclay with different methods and its application in urea-formaldehyde bonded plywood panels. <i>Wood Material Science and Engineering</i> , 2022, 17, 734-743. | 1.1 | 5 |
| 44 | Utilization of Lignin from the Waste of Bioethanol Production as a Mortar Additive. <i>Jurnal Sylva Lestari</i> , 2020, 8, 326. | 0.2 | 4 |
| 45 | Visual inspection of surface mold growth on medium-density fiberboard bonded with oxidized starch adhesives. <i>Wood Material Science and Engineering</i> , 2023, 18, 819-826. | 1.1 | 4 |
| 46 | Effects of Hydrolysis on the Removal of Cured Urea-Formaldehyde Adhesive in Waste Medium-Density Fiberboard. <i>Jurnal Sylva Lestari</i> , 2020, 8, 1. | 0.2 | 2 |
| 47 | Effects of Strands Pre-treatment and Adhesive Type on the Properties of Oriented Strand Board Made from Gmelina (<i>Gmelina arborea</i>) Wood. <i>Jurnal Sylva Lestari</i> , 2021, 9, 475-487. | 0.2 | 2 |
| 48 | Effects of Resin Content on the Characteristics of Bamboo Oriented Strand Board Prepared from Strands of Betung, Ampel, and Their Mixtures. <i>Jurnal Sylva Lestari</i> , 2021, 9, 454-465. | 0.2 | 2 |