Yan Wu

List of Publications by Year
in descending order

63 papers	1,571 citations	331259 21 h-index	329751 37 g-index
64 all docs	64 docs citations	64 times ranked	1218 citing authors

#	Article	IF	Citations
1	Characterization and Application of Ligninâ€“Carbohydrate Complexes from Lignocellulosic Materials as Antioxidants for Scavenging In Vitro and In Vivo Reactive Oxygen Species. ACS Sustainable Chemistry and Engineering, 2020, 8, 256-266.	3.2	222
2	Synthesis of Carbon Quantum Dot Nanoparticles Derived from Byproducts in Bio-Refinery Process for Cell Imaging and In Vivo Bioimaging. Nanomaterials, 2019, 9, 387.	1.9	128
3	Effect of alkali treatment on wettability and thermal stability of individual bamboo fibers. Journal of Wood Science, 2018, 64, 398-405.	0.9	96
4	Evaluation of elastic modulus and hardness of crop stalks cell walls by nano-indentation. Bioresource Technology, 2010, 101, 2867-2871.	4.8	90
5	Impact of delignification on morphological, optical and mechanical properties of transparent wood. Composites Part A: Applied Science and Manufacturing, 2019, 117, 324-331.	3.8	90
6	Effects of thermal modification on the physical, chemical and micromechanical properties of Masson pine wood (Pinus massoniana Lamb.). Holzforschung, 2018, 72, 1063-1070.	0.9	61
7	Effect of H2O2 Bleaching Treatment on the Properties of Finished Transparent Wood. Polymers, 2019, 11, 776.	2.0	59
8	Study on the Colorimetry Properties of Transparent Wood Prepared from Six Wood Species. ACS Omega, 2020, 5, 1782-1788.	1.6	48
9	Wood Sponge Reinforced with Polyvinyl Alcohol for Sustainable Oilâ€“Water Separation. ACS Omega, 2021, 6, 12866-12876.	1.6	37
10	Preparation of Graphene-Like Porous Carbons With Enhanced Thermal Conductivities From Lignin Nano-particles by Combining Hydrothermal Carbonization and Pyrolysis. Frontiers in Energy Research, 2020, 8, .	1.2	36
11	Mechanical and thermal properties of rice straw cellulose nanofibrils-enhanced polyvinyl alcohol films using freezing-and-thawing cycle method. Cellulose, 2019, 26, 3193-3204.	2.4	33
12	Study on the Properties of Transparent Bamboo Prepared by Epoxy Resin Impregnation. Polymers, 2020, 12, 863.	2.0	33
13	A strong multilayered transparent wood with natural wood color and texture. Journal of Materials Science, 2021, 56, 8000-8013.	1.7	32
14	Comparison of Multilayer Transparent Wood and Single Layer Transparent Wood With the Same Thickness. Frontiers in Materials, 2021, 8, .	1.2	30
15	Preparation and Characterization of Waterborne UV Lacquer Product Modified by Zinc Oxide with Flower Shape. Polymers, 2020, 12, 668.	2.0	26
16	A flower-like waterborne coating with self-cleaning, self-repairing properties for superhydrophobic applications. Journal of Materials Research and Technology, 2021, 14, 1820-1829.	2.6	26
17	Preparation process and characterization of mechanical properties of twisted bamboo spun fiber bundles. Journal of Materials Research and Technology, 2021, 14, 2131-2139.	2.6	26
18	Wood-cellulose photoluminescence material based on carbon quantum dot for light conversion. Carbohydrate Polymers, 2022, 290, 119429.	5.1	26

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19	Measurement of mechanical properties of multilayer waterborne coatings on wood by nanoindentation. Holzforschung, 2019, 73, 871-877.	0.9	25
20	A Superhydrophobic, Antibacterial, and Durable Surface of Poplar Wood. Nanomaterials, 2021, 11, 1885.	1.9	25
21	Study on the silica-polymer hybrid coated SrAl2O4:Eu2+, Dy3+ phosphor as a photoluminescence pigment in a waterborne UV acrylic coating. Journal of Materials Research and Technology, 2021, 13, 1230-1242.	2.6	24
22	Mechanical and Thermal Properties of Waterborne Polyurethane Coating Modified through One-Step Cellulose Nanocrystals/Graphene Materials Sols Method. Coatings, 2020, 10, 40.	1.2	23
23	Study on the Properties of Partially Transparent Wood under Different Delignification Processes. Polymers, 2020, 12, 661.	2.0	23
24	Softened Wood Treated by Deep Eutectic Solvents. ACS Omega, 2020, 5, 22163-22170.	1.6	22
25	UV-Filtering Cellulose Nanocrystal/Carbon Quantum Dot Composite Films for Light Conversion in Glass Windows. ACS Applied Nano Materials, 2021, 4, 12552-12560.	2.4	20
26	The preparation of cotton fabric with superâ€hydrophobicity and antibacterial properties by the modification of the stearic acid. Journal of Applied Polymer Science, 2021, 138, 50717.	1.3	19
27	Study on the preparation process and performance of a conductive, flexible, and transparent wood. Journal of Materials Research and Technology, 2021, 15, 5396-5404.	2.6	19
28	The Implication of Benzeneâ€“Ethanol Extractive on Mechanical Properties of Waterborne Coating and Wood Cell Wall by Nanoindentation. Coatings, 2019, 9, 449.	1.2	18
29	Preparation of Nanocellulose Aerogel from the Poplar (Populus tomentosa) Catkin Fiber. Forests, 2019, 10, 749.	0.9	17
30	A conductive polymer composed of a cellulose-based flexible film and carbon nanotubes. RSC Advances, 2021, 11, 20081-20088.	1.7	17
31	Biodegradable polyvinyl alcohol nanocomposites made from rice straw fibrils: Mechanical and thermal properties. Journal of Composite Materials, 2013, 47, 1449-1459.	1.2	15
32	The Microstructure and Mechanical Properties of Poplar Catkin Fibers Evaluated by Atomic Force Microscope (AFM) and Nanoindentation. Forests, 2019, 10, 938.	0.9	15
33	Effect of Thermal Modification on the Nano-Mechanical Properties of the Wood Cell Wall and Waterborne Polyacrylic Coating. Forests, 2020, 11, 1247.	0.9	15
34	Preparation and Properties of Chitosan/Graphene Modified Bamboo Fiber Fabrics. Polymers, 2019, 11, 1540.	2.0	14
35	Properties of Multilayer Transparent Bamboo Materials. ACS Omega, 2021, 6, 33747-33756.	1.6	14
36	Aerogel nanoarchitectonics based on cellulose nanocrystals and nanofibers from eucalyptus pulp: preparation and comparative study. Cellulose, 2022, 29, 817-833.	2.4	14

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37	A highly transparent compressed wood prepared by cell wall densification. Wood Science and Technology, 2022, 56, 669-686.	1.4	14
38	Understanding the effect of extractives on the mechanical properties of the waterborne coating on wood surface by nanoindentation 3D mapping. Journal of Materials Science, 2021, 56, 1401-1412.	1.7	12
39	The Effect of Antibacterial and Waterproof Coating Prepared From Hexadecyltrimethoxysilane and Nano-Titanium Dioxide on Wood Properties. Frontiers in Materials, 2021, 8, .	1.2	12
40	A multilayer transparent wood prepared by laminating two kinds of tree species. Journal of Applied Polymer Science, 2022, 139, .	1.3	11
41	A wood sponge sensor for heavy metal ion detection and adsorption. Wood Science and Technology, 2022, 56, 1175-1190.	1.4	11
42	A wood textile fiber made from natural wood. Journal of Materials Science, 2021, 56, 15122-15133.	1.7	10
43	Synthesis and characterisation of superhydrophobic CNC/ZnO nanocomposites by using stearic acid. Micro and Nano Letters, 2019, 14, 1317-1321.	0.6	9
44	A Multilayer Transparent Bamboo with Good Optical Properties and UV Shielding Prepared by Different Lamination Methods. ACS Sustainable Chemistry and Engineering, 2022, 10, 6106-6116.	3.2	9
45	A Superhydrophobic Moso Bamboo Cellulose Nano-Fibril Film Modified by Dopamine Hydrochloride. Frontiers in Bioengineering and Biotechnology, 2021, 9, 756839.	2.0	8
46	Chemical modification of poplar wood featuring compressible rebound 3D structure as water treatment absorbents. Journal of Cleaner Production, 2022, 331, 129952.	4.6	8
47	Preparation and antibacterial properties of waterborne ‹scp›UV‹/scp› cured coating modified by quaternary ammonium compounds. Journal of Applied Polymer Science, 2021, 138, 5042.	1.3	7
48	Using Cellulose Nanocrystal as Adjuvant to Improve the Dispersion Ability of Multilayer Graphene in Aqueous Suspension. Frontiers in Bioengineering and Biotechnology, 2021, 9, 638744.	2.0	6
49	Influence of Sonomechanical Treatment on the Structure of Cellulose Micro/Nano Fibrils. Key Engineering Materials, 2014, 609-610, 526-530.	0.4	4
50	A novel waterborne polyurethane coating modified by highly dispersed nanoâ€boron carbide particles. Journal of Applied Polymer Science, 2021, 138, 50214.	1.3	4
51	Preparation and Characterization of Silica Nanotubes with Cellulose as Template. Applied Mechanics and Materials, 0, 851, 61-65.	0.2	2
52	Effects of two-organic-acid-dissolved chitosan on antibacterial properties of bamboo pulp-based fabrics. Journal of Engineered Fibers and Fabrics, 2021, 16, 155892502110181.	0.5	2
53	Thermoresistant Hybrid Ag/RGO Fiber Supercapacitors. Fibers and Polymers, 2022, 23, 626-635.	1.1	2
54	Lifetime Prediction of EPU/Al Low Infrared Emissivity Coatings in Damp Heat. Applied Mechanics and Materials, 0, 442, 104-109.	0.2	1

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55	Microcrystalline Cellulose/Polyurethane Wood Material Preparation and Properties Research. Applied Mechanics and Materials, 0, 851, 122-126.	0.2	1
56	Research on Performance of Vetier (<i>Vetiveria zizanioides</i>) Cellulose Micro/Nano Fibrils Isolated by High Intensity Ultrasonication. Advanced Materials Research, 0, 393-395, 1405-1408.	0.3	0
57	Mechanical and Thermal Properties of Poly(Vinyl Alcohol) Nanocomposite Material Reinforced with Rice Straw Fibril and Fibril Aggregates. Advanced Materials Research, 2011, 183-185, 1883-1887.	0.3	0
58	Influence of Extruder Conditions on Mechanical Properties of Polypropylene Nanocomposites Reinforced with Rice Straw Micro/Nano Fibrils. Advanced Materials Research, 2011, 236-238, 1877-1880.	0.3	0
59	Investigation of Morphology of Vetier (<i>Vetiveria zizanioides</i>) Cellulose Micro/Nano Fibrils Isolated by High Intensity Ultrasonication. Advanced Materials Research, 0, 284-286, 796-800.	0.3	0
60	Research on Melamine Formaldehyde Resin Modified by Vetier (Vetiveria zizanioides) Micro/Nano Fibrils. Advanced Materials Research, 0, 261-263, 537-541.	0.3	0
61	Prediction of Bending Creep Behavior of Rice Hull Flour/Polypropylene Composite. Applied Mechanics and Materials, 0, 200, 203-206.	0.2	0
62	Preparation of Cellulose Micro/Nano Fibrils by Sonochemical Method and its Morphological Characterization. Key Engineering Materials, 2013, 562-565, 864-868.	0.4	0
63	Performance of Wood Flooring UV Coatings Interfacial Modified by Nano-Silica. Key Engineering Materials, 2014, 609-610, 118-123.	0.4	0