

Zhichao Lou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2649576/publications.pdf>

Version: 2024-02-01

73
papers

2,882
citations

201674

27
h-index

175258

52
g-index

74
all docs

74
docs citations

74
times ranked

2704
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulating lignin content to obtain excellent bamboo-derived electromagnetic wave absorber with thermal stability. <i>Chemical Engineering Journal</i> , 2022, 430, 133178.	12.7	73
2	Biomass-Derived Carbon Heterostructures Enable Environmentally Adaptive Wideband Electromagnetic Wave Absorbers. <i>Nano-Micro Letters</i> , 2022, 14, 11.	27.0	169
3	Artificial intelligence-assisted enumeration of ultra-small viruses with dual dark-field plasmon resonance probes. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113893.	10.1	5
4	Change in Micro-Morphology and Micro-Mechanical Properties of Thermally Modified Moso Bamboo. <i>Polymers</i> , 2022, 14, 646.	4.5	8
5	Study on Bamboo Longitudinal Flattening Technology. <i>Polymers</i> , 2022, 14, 816.	4.5	8
6	Magnetic Nanobubble Mechanical Stress Induces the Piezo1 ⁺ Ca ²⁺ /BMP2/Smad Pathway to Modulate Neural Stem Cell Fate and MRI/Ultrasound Dual Imaging Surveillance for Ischemic Stroke. <i>Small</i> , 2022, 18, e2201123.	10.0	14
7	Effect of High-Temperature Hydrothermal Treatment on Chemical, Mechanical, Physical, and Surface Properties of Moso Bamboo. <i>Forests</i> , 2022, 13, 712.	2.1	15
8	Recent Advancements in MOF/Biomass and Bio-MOF Multifunctional Materials: A Review. <i>Sustainability</i> , 2022, 14, 5768.	3.2	23
9	A flexible electromagnetic wave-electricity harvester. <i>Nature Communications</i> , 2021, 12, 834.	12.8	269
10	Fe ₃ O ₄ /Fe decorated porous carbon-based composites with adjustable electromagnetic wave absorption: Impedance matching and loading rate. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157706.	5.5	16
11	3D magnetic nanocomposite scaffolds enhanced the osteogenic capacities of rat bone mesenchymal stem cells in vitro and in a rat calvarial bone defect model by promoting cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1670-1680.	4.0	12
12	Thermal phase transition controlling electromagnetic wave absorption behavior of PAN fiber derived porous magnetic absorber. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 26007-26020.	2.2	7
13	Bamboo flattening technique: a literature and patent review. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 1035-1048.	2.9	72
14	Multi-scale characterization of the effect of saturated steam on the macroscale properties and surface changes of moso bamboo. <i>Materials Express</i> , 2021, 11, 740-748.	0.5	8
15	Multistage Extraction of Star Anise and Black Pepper Derivatives for Antibacterial, Antioxidant, and Anticancer Activity. <i>Frontiers in Chemistry</i> , 2021, 9, 660138.	3.6	11
16	Multi-scale evaluation of the effect of saturated steam on the micromechanical properties of Moso bamboo. <i>Holzforschung</i> , 2021, 75, 1052-1060.	1.9	21
17	In-situ formation of low-dimensional, magnetic core-shell nanocrystal for electromagnetic dissipation. <i>Composites Part B: Engineering</i> , 2021, 214, 108744.	12.0	57
18	A new approach for fabricating crack-free, flattened bamboo board and the study of its macro-/micro-properties. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 1531-1540.	2.9	26

#	ARTICLE	IF	CITATIONS
19	Nano-Fe ₃ O ₄ /bamboo bundles/phenolic resin oriented recombination ternary composite with enhanced multiple functions. <i>Composites Part B: Engineering</i> , 2021, 226, 109335.	12.0	96
20	Multi-Scale Analysis of Changes in Crack-Free Flattened Moso Bamboo After Saturated Steam Treatment and Flattening Process. <i>Science of Advanced Materials</i> , 2021, 13, 1259-1267.	0.7	5
21	Quantitative Evaluation of the Influence of Densification Process on Bamboo Cell Walls. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1296-1302.	0.5	3
22	Characterization of the Influence of Heat Compression on Bamboo Cell Walls by Nanoindentation. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1436-1443.	0.5	3
23	Determination of the Effects of Superheated Steam on Microstructure and Micromechanical Properties of Bamboo Cell Walls Using Quasi-Static Nanoindentation. <i>Forests</i> , 2021, 12, 1742.	2.1	9
24	Phenolic foam-derived magnetic carbon foams (MCFs) with tunable electromagnetic wave absorption behavior. <i>Chemical Engineering Journal</i> , 2020, 391, 123571.	12.7	108
25	Effects of One-Step Hot Oil Treatment on the Physical, Mechanical, and Surface Properties of Bamboo Scrimber. <i>Molecules</i> , 2020, 25, 4488.	3.8	21
26	Effect of torrefaction on the pyrolysis behavior, kinetics, and phenolic products of lignin. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	4.6	6
27	Facile Synthesis of Ultralight and Porous Melamine-Formaldehyde (MF) Resin-Derived Magnetic Graphite-Like C ₃ N ₄ /Carbon Foam with Electromagnetic Wave Absorption Behavior. <i>Crystals</i> , 2020, 10, 656.	2.2	15
28	Moderate cooling coprecipitation for extremely small iron oxide as a pH dependent <i>T</i> ₁ -MRI contrast agent. <i>Nanoscale</i> , 2020, 12, 5521-5532.	5.6	35
29	Fabrication of a novel magnetic reconstituted bamboo with mildew resistance properties. <i>Materials Today Communications</i> , 2020, 23, 101086.	1.9	24
30	Effect of Saturated Steam Heat Treatment on Physical and Chemical Properties of Bamboo. <i>Molecules</i> , 2020, 25, 1999.	3.8	53
31	Synthesis of Ultralight and Porous Magnetic g-C ₃ N ₄ /g-Carbon Foams with Excellent Electromagnetic Wave (EMW) Absorption Performance and Their Application as a Reinforcing Agent for 3D Printing EMW Absorbers. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7633-7645.	3.7	28
32	Multi-Scale Evaluation of the Effect of Phenol Formaldehyde Resin Impregnation on the Dimensional Stability and Mechanical Properties of <i>Pinus Massoniana</i> Lamb.. <i>Forests</i> , 2019, 10, 646.	2.1	31
33	Synthesis of Porous Fe/C Bio-Char Adsorbent for Rhodamine B from Waste Wood: Characterization, Kinetics and Thermodynamics. <i>Processes</i> , 2019, 7, 150.	2.8	6
34	Effect of Phenol Formaldehyde Resin Penetration on the Quasi-Static and Dynamic Mechanics of Wood Cell Walls Using Nanoindentation. <i>Nanomaterials</i> , 2019, 9, 1409.	4.1	30
35	Gold Nanoparticle Probe-Assisted Antigen-Counting Chip Using SEM. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6769-6776.	8.0	11
36	Synthesis of Fe ₃ C@C from Pyrolysis of Fe ₃ O ₄ -Lignin Clusters and Its Application for Quick and Sensitive Detection of PrPSc through a Sandwich SPR Detection Assay. <i>International Journal of Molecular Sciences</i> , 2019, 20, 741.	4.1	25

#	ARTICLE	IF	CITATIONS
37	Synthesis of porous carbon matrix with inlaid Fe ₃ C/Fe ₃ O ₄ micro-particles as an effective electromagnetic wave absorber from natural wood shavings. <i>Journal of Alloys and Compounds</i> , 2019, 775, 800-809.	5.5	118
38	Fabrication of Fe/C Composites as Effective Electromagnetic Wave Absorber by Carbonization of Pre-magnetized Natural Wood Fibers. <i>Journal of Bioresources and Bioproducts</i> , 2019, 4, 43-50.	20.5	27
39	Radiosensitivity enhancement of Fe ₃ O ₄ @Ag nanoparticles on human glioblastoma cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 975-984.	2.8	25
40	Effect of the penetration of isocyanates (pMDI) on the nanomechanics of wood cell wall evaluated by AFM-IR and nanoindentation (NI). <i>Holzforschung</i> , 2018, 72, 301-309.	1.9	27
41	The properties of Moso bamboo heat-treated with silicon oil. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 1273-1278.	2.9	27
42	Characteristics and properties of wood/polyaniline electromagnetic shielding composites synthesized via <i>in situ</i> polymerization. <i>Polymer Composites</i> , 2018, 39, 537-543.	4.6	24
43	Effects of accelerated aging treatment on the microstructure and mechanics of wood-resin interphase. <i>Holzforschung</i> , 2018, 72, 235-241.	1.9	13
44	Magnetic Cell Scaffolds Scaffold Interface Constructed by Superparamagnetic IONP Enhanced Osteogenesis of Adipose-Derived Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44279-44289.	8.0	67
45	Synthesis of Porous 3D Fe/C Composites from Waste Wood with Tunable and Excellent Electromagnetic Wave Absorption Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15598-15607.	6.7	90
46	Qualitative and Quantitative Detection of PrPSc Based on the Controlled Release Property of Magnetic Microspheres Using Surface Plasmon Resonance (SPR). <i>Nanomaterials</i> , 2018, 8, 107.	4.1	20
47	Synthesis of Magnetic Wood Fiber Board and Corresponding Multi-Layer Magnetic Composite Board, with Electromagnetic Wave Absorbing Properties. <i>Nanomaterials</i> , 2018, 8, 441.	4.1	41
48	Effects of thermal modification on the physical, chemical and micromechanical properties of Masson pine wood (<i>Pinus massoniana</i> Lamb.). <i>Holzforschung</i> , 2018, 72, 1063-1070.	1.9	61
49	Roles of PIP ₂ in the membrane binding of MIM-BAR: insights from molecular dynamics simulations. <i>FEBS Letters</i> , 2018, 592, 2533-2542.	2.8	13
50	Synthesis of Magnetic Wood with Excellent and Tunable Electromagnetic Wave-Absorbing Properties by a Facile Vacuum/Pressure Impregnation Method. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1000-1008.	6.7	98
51	Temperature-dependent mechanical properties of wood-adhesive bondline evaluated by nanoindentation. <i>Journal of Adhesion</i> , 2017, 93, 640-656.	3.0	22
52	Transition characteristics of a carbonized wood cell wall investigated by scanning thermal microscopy (SThM). <i>Wood Science and Technology</i> , 2017, 51, 831-843.	3.2	19
53	Optimizing purification process of MIM-I-BAR domain by introducing atomic force microscope and dynamics simulations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 391-397.	5.0	1
54	Quick and sensitive SPR detection of prion disease-associated isoform (PrPSc) based on its self-assembling behavior on bare gold film and specific interactions with aptamer-graphene oxide (AGO). <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 31-39.	5.0	17

#	ARTICLE	IF	CITATIONS
55	In vitro cytotoxicity evaluation of graphene oxide from the peroxidase-like activity perspective. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 151, 215-223.	5.0	16
56	Fabrication of Magnetic Conjugation Clusters via Intermolecular Assembling for Ultrasensitive Surface Plasmon Resonance (SPR) Detection in a Wide Range of Concentrations. <i>Analytical Chemistry</i> , 2017, 89, 13472-13479.	6.5	33
57	Effect of alkali treatment on microstructure and mechanical properties of individual bamboo fibers. <i>Cellulose</i> , 2017, 24, 333-347.	4.9	132
58	Highly transparent and self-healing films based on the dynamic Schiff base linkage. <i>RSC Advances</i> , 2016, 6, 115247-115251.	3.6	22
59	Effect of the electrostatic surface potential on the oligomerization of full-length human recombinant prion protein at single-molecule level. <i>Journal of Chemical Physics</i> , 2016, 144, 114701.	3.0	6
60	Effect of torrefaction pretreatment and catalytic pyrolysis on the pyrolysis poly-generation of pine wood. <i>Bioresource Technology</i> , 2016, 214, 615-622.	9.6	92
61	Assembly-induced Thermogenesis of Gold Nanoparticles in the Presence of Alternating Magnetic Field for Controllable Drug Release of Hydrogel. <i>Advanced Materials</i> , 2016, 28, 10801-10808.	21.0	62
62	In situ identification of the molecular-scale interactions of phenol-formaldehyde resin and wood cell walls using infrared nanospectroscopy. <i>RSC Advances</i> , 2016, 6, 76318-76324.	3.6	52
63	Effect of pyrolysis temperature on the chemical oxidation stability of bamboo biochar. <i>Bioresource Technology</i> , 2016, 218, 1303-1306.	9.6	156
64	Pyrolysis polygeneration of poplar wood: Effect of heating rate and pyrolysis temperature. <i>Bioresource Technology</i> , 2016, 218, 780-788.	9.6	151
65	Growth enhancing effect of LBL-assembled magnetic nanoparticles on primary bone marrow cells. <i>Science China Materials</i> , 2016, 59, 901-910.	6.3	18
66	Facile synthesis and antibacterial evaluation of poly(acrylamide-co- β -cyclodextrin)/silver nanocomposite. <i>Polymer Composites</i> , 2016, 37, 1480-1487.	4.6	2
67	High-Density Polyethylene and Heat-Treated Bamboo Fiber Composites: Nonisothermal Crystallization Properties. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-7.	2.7	2
68	Molecular-level insights of early-stage prion protein aggregation on mica and gold surface determined by AFM imaging and molecular simulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 371-378.	5.0	24
69	Following the aggregation of human prion protein on Au(111) surface in real-time. <i>Chemical Communications</i> , 2015, 51, 2088-2090.	4.1	17
70	Magnetized bentonite by Fe ₃ O ₄ nanoparticles treated as adsorbent for methylene blue removal from aqueous solution: Synthesis, characterization, mechanism, kinetics and regeneration. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 49, 199-205.	5.3	52
71	A simple strategy to fabricate poly (acrylamide-co-alginate)/gold nanocomposites for inactivation of bacteria. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 2009-2018.	2.3	3
72	Detection of Wild-Type Hypoxanthine Guanine Phosphoribosyl Transferase of Lymphocytes in Gamma-Irradiated Mice with Surface Plasmon Resonance. <i>Analytical Letters</i> , 2012, 45, 850-861.	1.8	2

#	ARTICLE	IF	CITATIONS
73	<l>â<l>-Radiation Synthesis of Nano/Micrometer-Scale Single-Crystalline Large Gold Plates. Journal of Nanoscience and Nanotechnology, 2012, 12, 3142-3149.	0.9	6