

# Jianzhong Sun

## List of Publications by Citations

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95  
papers

1,927  
citations

27  
h-index

40  
g-index

104  
ext. papers

3,290  
ext. citations

6.6  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
95	Current advances and future perspectives of 3D printing natural-derived biopolymers. <i>Carbohydrate Polymers</i> , <b>2019</b> , 207, 297-316	10.3	155
94	3D printing with cellulose materials. <i>Cellulose</i> , <b>2018</b> , 25, 4275-4301	5.5	132
93	Biodegradation of alkaline lignin by L1. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 44	7.8	77
92	Degradation of conventional plastic wastes in the environment: A review on current status of knowledge and future perspectives of disposal. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 144719	10.2	76
91	Effective bio-pretreatment of sawdust waste with a novel microbial consortium for enhanced biomethanation. <i>Bioresource Technology</i> , <b>2017</b> , 238, 425-432	11	69
90	A critical review on the treatment of dye-containing wastewater: Ecotoxicological and health concerns of textile dyes and possible remediation approaches for environmental safety.. <i>Ecotoxicology and Environmental Safety</i> , <b>2022</b> , 231, 113160	7	63
89	Ecofriendly biodegradation of Reactive Black 5 by newly isolated <i>Sterigmatomyces halophilus</i> SSA1575, valued for textile azo dye wastewater processing and detoxification. <i>Scientific Reports</i> , <b>2020</b> , 10, 12370	4.9	54
88	Plastic wastes biodegradation: Mechanisms, challenges and future prospects. <i>Science of the Total Environment</i> , <b>2021</b> , 780, 146590	10.2	53
87	The endophytic bacteria isolated from elephant grass ( <i>Pennisetum purpureum</i> Schumach) promote plant growth and enhance salt tolerance of Hybrid <i>Pennisetum</i> . <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 190	7.8	52
86	Processing nanocellulose to bulk materials: a review. <i>Cellulose</i> , <b>2019</b> , 26, 7585-7617	5.5	47
85	Screening and characterizing of xylanolytic and xylose-fermenting yeasts isolated from the wood-feeding termite, <i>Reticulitermes chinensis</i> . <i>PLoS ONE</i> , <b>2017</b> , 12, e0181141	3.7	42
84	Performance of a Newly Isolated Salt-Tolerant Yeast Strain SSA-1575 for Azo Dye Decolorization and Detoxification. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1163	5.7	39
83	Recent Development of Extremophilic Bacteria and Their Application in Biorefinery. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 483	5.8	38
82	Construction of a new lipase- and xylanase-producing oleaginous yeast consortium capable of reactive azo dye degradation and detoxification. <i>Bioresource Technology</i> , <b>2020</b> , 313, 123631	11	33
81	Stimuli-responsive cellulose nanomaterials for smart applications. <i>Carbohydrate Polymers</i> , <b>2020</b> , 235, 115933	10.3	33
80	Construction of novel microbial consortia CS-5 and BC-4 valued for the degradation of catalpa sawdust and chlorophenols simultaneously with enhancing methane production. <i>Bioresource Technology</i> , <b>2020</b> , 301, 122720	11	32
79	Screening and construction of a novel microbial consortium SSA-6 enriched from the gut symbionts of wood-feeding termite, <i>Coptotermes formosanus</i> and its biomass-based biorefineries. <i>Fuel</i> , <b>2019</b> , 236, 1128-1145	7.1	32

78	Enhanced digestion of bio-pretreated sawdust using a novel bacterial consortium: Microbial community structure and methane-producing pathways. <i>Fuel</i> , <b>2019</b> , 254, 115604	7.1	31
77	Enhanced anaerobic digestion performance by two artificially constructed microbial consortia capable of woody biomass degradation and chlorophenols detoxification. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 122076	12.8	31
76	Pharmaceutical Potential of a Novel Chitosan Derivative Schiff Base with Special Reference to Antibacterial, Anti-Biofilm, Antioxidant, Anti-Inflammatory, Hemocompatibility and Cytotoxic Activities. <i>Pharmaceutical Research</i> , <b>2018</b> , 36, 5	4.5	31
75	Stimuli induced cellulose nanomaterials alignment and its emerging applications: A review. <i>Carbohydrate Polymers</i> , <b>2020</b> , 230, 115609	10.3	30
74	Physico-chemical pretreatment and fungal biotreatment for park wastes and cattle dung for biogas production. <i>SpringerPlus</i> , <b>2015</b> , 4, 712		29
73	Synthesis, characterization and biomedical applications of a novel Schiff base on methyl acrylate-functionalized chitosan bearing p-nitrobenzaldehyde groups. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 122, 833-843	7.9	29
72	Valorizing lignin-like dyes and textile dyeing wastewater by a newly constructed lipid-producing and lignin modifying oleaginous yeast consortium valued for biodiesel and bioremediation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123575	12.8	29
71	Ultrasonic emulsification assisted immobilized Burkholderia cepacia lipase catalyzed transesterification of soybean oil for biodiesel production in a novel reactor design. <i>Renewable Energy</i> , <b>2019</b> , 135, 1025-1034	8.1	28
70	Envisioning the era of 3D printing: a conceptual model for the fashion industry. <i>Fashion and Textiles</i> , <b>2017</b> , 4,	2.8	27
69	Environmental fate of tetracycline antibiotics: degradation pathway mechanisms, challenges, and perspectives. <i>Environmental Sciences Europe</i> , <b>2021</b> , 33,	5	27
68	Nanobiotechnological advancements in agriculture and food industry: Applications, nanotoxicity, and future perspectives. <i>Science of the Total Environment</i> , <b>2021</b> , 792, 148359	10.2	27
67	Evaluation of the kinematic viscosity in biodiesel production with waste vegetable oil, ultrasonic irradiation and enzymatic catalysis: A comparative study in two-reactors. <i>Fuel</i> , <b>2018</b> , 227, 448-456	7.1	26
66	Bacillus ligniniphilus sp. nov., an alkaliphilic and halotolerant bacterium isolated from sediments of the South China Sea. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2014</b> , 64, 1712-1717	2.2	25
65	Construction of a novel cold-adapted oleaginous yeast consortium valued for textile azo dye wastewater processing and biorefinery. <i>Fuel</i> , <b>2021</b> , 285, 119050	7.1	25
64	Effective thermal pretreatment of water hyacinth (Eichhornia crassipes) for the enhancement of biomethanation: VIT <sup>2</sup> gene probe technology for microbial community analysis with special reference to methanogenic Archaea. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 102853	6.8	24
63	Drug resistance profile and molecular characterization of extended spectrum beta-lactamase (ESI)-producing Pseudomonas aeruginosa isolated from burn wound infections. Essential oils and their potential for utilization. <i>Microbial Pathogenesis</i> , <b>2018</b> , 116, 301-312	3.8	23
62	Genomics and biochemistry investigation on the metabolic pathway of milled wood and alkali lignin-derived aromatic metabolites of SP-35. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 338	7.8	23
61	Insight into Depolymerization Mechanism of Bacterial Laccase for Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 12920-12933	8.3	20

60	Coupling azo dye degradation and biodiesel production by manganese-dependent peroxidase producing oleaginous yeasts isolated from wood-feeding termite gut symbionts. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 61	7.8	20
59	Phytochemical analysis and assessment of antioxidant and antimicrobial activities of some medicinal plant species from Egyptian flora. <i>Journal of Applied Biomedicine</i> , <b>2018</b> , 16, 289-300	0.6	19
58	Bacterial chemotaxis: a way forward to aromatic compounds biodegradation. <i>Environmental Sciences Europe</i> , <b>2020</b> , 32,	5	18
57	Transcriptome analysis of the digestive system of a wood-feeding termite () revealed a unique mechanism for effective biomass degradation. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 24	7.8	18
56	Scaled-up biodiesel synthesis from Chinese Tallow Kernel oil catalyzed by Burkholderia cepacia lipase through ultrasonic assisted technology: A non-edible and alternative source of bio energy. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104658	8.9	16
55	Lignin valorization: Status, challenges and opportunities.. <i>Bioresource Technology</i> , <b>2022</b> , 347, 126696	11	16
54	Cellulose Nanofibrils Filled Poly(Lactic Acid) Biocomposite Filament for FDM 3D Printing. <i>Molecules</i> , <b>2020</b> , 25,	4.8	15
53	Description of Comamonas serinivorans sp. nov., isolated from wheat straw compost. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2014</b> , 64, 4141-4146	2.2	15
52	The effects of water hyacinth pretreated digestate on Lupinus termis L. seedlings under salinity stress: A complementary study. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103159	6.8	13
51	Kinetic thermal behavior of nanocellulose filled polylactic acid filament for fused filament fabrication 3D printing. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48374	2.9	13
50	Characterization of cold adapted and ethanol tolerant $\beta$ -glucosidase from Bacillus cellulosilyticus and its application for directed hydrolysis of cellobiose to ethanol. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 109, 872-879	7.9	13
49	Controlling the Size and Film Strength of Individualized Cellulose Nanofibrils Prepared by Combined Enzymatic Pretreatment and High Pressure Microfluidization. <i>BioResources</i> , <b>2015</b> , 11,	1.3	12
48	Identification and expression analysis of Sorghum bicolor gibberellin oxidase genes with varied gibberellin levels involved in regulation of stem biomass. <i>Industrial Crops and Products</i> , <b>2020</b> , 145, 111951	5.9	12
47	Structure and Properties of Polylactic Acid Biocomposite Films Reinforced with Cellulose Nanofibrils. <i>Molecules</i> , <b>2020</b> , 25,	4.8	12
46	Roem. & Schult.: A new bioactive antimicrobial and antioxidant agent to combat multi-drug/pan-drug resistant pathogens of wound burn infections. <i>Journal of Traditional and Complementary Medicine</i> , <b>2020</b> , 10, 13-25	4.6	12
45	Biodegradation of creosote-treated wood by two novel constructed microbial consortia for the enhancement of methane production. <i>Bioresource Technology</i> , <b>2021</b> , 323, 124544	11	12
44	Efficacy of metal oxide nanoparticles as novel antimicrobial agents against multi-drug and multi-virulent Staphylococcus aureus isolates from retail raw chicken meat and giblets. <i>International Journal of Food Microbiology</i> , <b>2021</b> , 344, 109116	5.8	11
43	Performance of Meyerozyma caribbica as a novel manganese peroxidase-producing yeast inhabiting wood-feeding termite gut symbionts for azo dye decolorization and detoxification. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150665	10.2	10

42	Harnessing microbial wealth for lignocellulose biomass valorization through secretomics: a review. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 154	7.8	9
41	Recent Progress on the Characterization of Cellulose Nanomaterials by Nanoscale Infrared Spectroscopy. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	8
40	Evaluation of cellulose degrading bacteria isolated from the gut-system of cotton bollworm, <i>Helicoverpa armigera</i> and their potential values in biomass conversion. <i>PeerJ</i> , <b>9</b> , e11254	3.1	8
39	L.: Traditional herbal medicine against A and A toxin genes-producing drug resistant. <i>Journal of Traditional and Complementary Medicine</i> , <b>2020</b> , 10, 366-377	4.6	8
38	Description of <i>Leucobacter holotrichiae</i> sp. nov., isolated from the gut of <i>Holotrichia oblita</i> larvae. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2016</b> , 66, 1857-1861	2.2	7
37	Construction of a novel microbial consortium valued for the effective degradation and detoxification of creosote-treated sawdust along with enhanced methane production. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126091	12.8	7
36	Functionalization of nanocellulose applied with biological molecules for biomedical application: A review.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 285, 119208	10.3	6
35	Valorisation of wheat straw and bioethanol production by a novel xylanase- and cellulase-producing <i>Streptomyces</i> strain isolated from the wood-feeding termite, <i>Microcerotermes</i> species. <i>Fuel</i> , <b>2022</b> , 310, 122333	7.1	6
34	Valorization Potential of a Novel Bacterial Strain, RSP75, towards Lignocellulose Bioconversion: An Assessment of Symbiotic Bacteria from the Stored Grain Pest,. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	6
33	Wood-feeding termites as an obscure yet promising source of bacteria for biodegradation and detoxification of creosote-treated wood along with methane production enhancement. <i>Bioresource Technology</i> , <b>2021</b> , 338, 125521	11	6
32	Highly thermostable GH51 $\beta$ -arabinofuranosidase from <i>Hungateiclostridium clariflavum</i> DSM 19732. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 3783-3793	5.7	5
31	Purification and characterization of a hemocyanin (Hemo1) with potential lignin-modification activities from the wood-feeding termite, <i>Coptotermes formosanus</i> Shiraki. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 175, 687-97	3.2	5
30	Molecular characterization of virulence and drug resistance genes-producing <i>Escherichia coli</i> isolated from chicken meat: Metal oxide nanoparticles as novel antibacterial agents. <i>Microbial Pathogenesis</i> , <b>2020</b> , 143, 104164	3.8	5
29	sp. nov., a halotolerant bacterium isolated from deep-sea sediments. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2016</b> , 66, 616-622	2.2	5
28	Genome Editing of the Anaerobic Thermophile <i>Thermoanaerobacter ethanolicus</i> Using Thermostable Cas9. <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 87,	4.8	5
27	Correction to: Environmental fate of tetracycline antibiotics: degradation pathway mechanisms, challenges, and perspectives. <i>Environmental Sciences Europe</i> , <b>2021</b> , 33,	5	5
26	Development of Cellulose Nanofibril/Casein-Based 3D Composite Hemostasis Scaffold for Potential Wound-Healing Application.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
25	Exploring new marine bacterial species, <i>Alcaligenes faecalis</i> Alca F2018 valued for bioconversion of shrimp chitin to chitosan for concomitant biotechnological applications.. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 196, 35-45	7.9	4

24	Biosynthesis of Silver Nanoparticles by Marine Actinobacterium and Exploring Their Therapeutic Potentials.. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 705673	5.7	4
23	Wood-feeding termite gut symbionts as an obscure yet promising source of novel manganese peroxidase-producing oleaginous yeasts intended for azo dye decolorization and biodiesel production. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 229	7.8	4
22	Decoding lignin valorization pathways in the extremophilic <i>Bacillus ligniniphilus</i> L1 for vanillin biosynthesis. <i>Green Chemistry</i> ,	10	4
21	Growth factor functionalized biodegradable nanocellulose scaffolds for potential wound healing application. <i>Cellulose</i> , <b>2021</b> , 28, 5643	5.5	4
20	Nano-biofertilizers: Synthesis, advantages, and applications <b>2021</b> , 359-370		4
19	Evaluation and characterization of the cellulolytic bacterium, <i>Bacillus pumilus</i> SL8 isolated from the gut of oriental leafworm <i>Spodoptera litura</i> : An assessment of its potential value for lignocellulose bioconversion. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 27, 102459	7	4
18	Preparation, characterization, and oxygen barrier properties of regenerated cellulose/polyvinyl alcohol blend films. <i>BioResources</i> , <b>2020</b> , 15, 2735-2746	1.3	3
17	New Insights into the Co-Occurrences of Glycoside Hydrolase Genes among Prokaryotic Genomes through Network Analysis. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	3
16	Polysaccharide-based hemostats: recent developments, challenges, and future perspectives. <i>Cellulose</i> , <b>2021</b> , 28, 8899-8937	5.5	3
15	Dye Decoloring Peroxidase Structure, Catalytic Properties and Applications: Current Advancement and Futurity. <i>Catalysts</i> , <b>2021</b> , 11, 955	4	3
14	Sustainable cellulose nanomaterials for environmental remediation - Achieving clean air, water, and energy: A review.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 285, 119251	10.3	3
13	Acidic Alkaline Bacterial Degradation of Lignin Through Engineered Strain BL21(Lacc): Exploring the Differences in Chemical Structure, Morphology, and Degradation Products. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 671	5.8	2
12	Exploring the region-wise diversity and functions of symbiotic bacteria in the gut-system of wood-feeding termite, <i>Coptotermes formosanus</i> , towards the degradation of cellulose, hemicellulose and organic dyes.. <i>Insect Science</i> , <b>2022</b> ,	3.6	2
11	Extremophiles and extremozymes in lignin bioprocessing. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 157, 112069	16.2	2
10	Bacterial membrane transporter systems for aromatic compounds: Regulation, engineering, and biotechnological applications.. <i>Biotechnology Advances</i> , <b>2022</b> , 107952	17.8	1
9	Exploring the potential of a newly constructed manganese peroxidase-producing yeast consortium for tolerating lignin degradation inhibitors while simultaneously decolorizing and detoxifying textile azo dye wastewater.. <i>Bioresource Technology</i> , <b>2022</b> , 126861	11	1
8	Templated synthesis and assembly with sustainable cellulose nanomaterial for functional nanostructure. <i>Cellulose</i> , <b>2022</b> , 29, 4287	5.5	1
7	Unveiling the transcriptomic complexity of <i>Miscanthus sinensis</i> using a combination of PacBio long read- and Illumina short read sequencing platforms. <i>BMC Genomics</i> , <b>2021</b> , 22, 690	4.5	0

6	Could termites be hiding a goldmine of obscure yet promising yeasts for energy crisis solutions based on aromatic wastes? A critical state-of-the-art review. <b>2022</b> , 15, 35		o
5	Light-driven bio-decolorization of triphenylmethane dyes by a Clostridium thermocellum-CdS biohybrid.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 431, 128596	12.8	o
4	A novel Bacillus ligninophilus catechol 2,3-dioxygenase shows unique substrate preference and metal requirement.. <i>Scientific Reports</i> , <b>2021</b> , 11, 23982	4.9	o
3	as a Novel Marine Actinobacterium Mediated Silver Nanoparticles: Characterization, Biological Activities, and Proposed Mechanism of Antibacterial Action.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 833154	5.7	o
2	Microalgae as a Renewable Resource for Bioplastic Production. <i>Impact of Meat Consumption on Health and Environmental Sustainability</i> , <b>2022</b> , 471-500	0.3	o
1	CRISPR/Cas genome editing systems in thermophiles: Current status, associated challenges, and future perspectives.. <i>Advances in Applied Microbiology</i> , <b>2022</b> , 118, 1-30	4.9	